

WOOD'S SHOP CREATIVE BUILDERS

JOSEPH WOOD

4th Generation Builder - General Contractor #523278

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Materials List Etc. for 12'x12' 8:12 Curved Roof Azumaya

Buy the nicest grade of exterior-use lumber that you can afford and you'll have fewer problems with wood movement (warping, cracking Etc.). This is especially important with the curved rafters cut from wide boards. I like clear western red cedar. When you order, or hand select your post and beam stock, do get the grade FOHC (Free of Heart Center) if at all possible. You don't want that bulls eye anywhere in the timber because that's the most unstable part of the tree and will always warp twist and check.

Also, if your stock isn't kiln dried or well-seasoned, let your stock acclimate (stack it on stickers out of the direct sun and run a fan on it 24/7) for at least 10 days (good drying conditions) before you start cutting it, especially with the curved rafters and laminated ridge's stock. This let's the wood start to shrink/move, and stabilize its moisture content, and any warps, crowns etc. will be seen easier before you start cutting. I always lightly sand and pre stain/seal (especially the end grain) all of my major components before installing. I like oil-based Penofin http://www.penofin.com/products_bl.shtml

These Plans are based on using Surfaced 4 Sides (S4S) stock, where the thickness is 1.5" for 2x stock and 3.5" for the 4x stock. The heights are 2x4 3 1/2", 2x6 5 1/2", 2x8 7 3/8", 2x10 9 3/8", 2x12 11 3/8", 4x10 9 3/8" etc. If your stock varies from these dimensions, do account for it when laying out.

Beams 4-4x10"x12'

Posts 4-6x8 x 8' on grade or 12' if in-ground

Ridge 2x6 2-10', 2x10 2-10'

Rafters-

Long Commons 2x12 6-12'

Short Commons 2x10 6-8'

Jacks 2x10

#1 8-6', #2 & #3 8-6' 6"

Hips 2x12 4-12'

Blocking-

2x6 20'

2x4 64'

2x8 48'

Collar Ties 2x4 1-6'

Gable ties 2x6 1- 10'

Rafter Ties 2x4 4-12'

Web 2x10 1-8'

2x6 T&G Sheathing (with 5" exposure)

6'- 24

8'- 14

10'- 12

12'- 12

14'- 12

16'- 8

*** You could also use 5/4 skip sheathing ,**

instead of solid sheathing, like they did with this

16x20' Straight roof <http://woodsshop.com/Azumaya/16x20/16x20.htm>

12'x12' Curved Roof <http://woodsshop.com/Azumaya/12x12Curved-Cash/12x12Curved.htm> I

like to see the shingles from underneath.

*** 350 square' of roofing, 50' of hip cap.**