



A square frame of on-edge PT 2x4s was lag-screwed within the post-and-beam structure, against a 4x4 WRC post that was bolted to the rim joist and screwed to the overhead beam (10" lags). Four more 2x4s were screwed to the frame at 45° to form a second square. This served as a very effective shear wall while the azumaya roof was assembled.

Four vertical pieces of 2x4 were screwed in place to provide 16" on-center attachment points and additional support.



Four more 2x4 pieces were added to support the window opening edges.



Half-circles (25" radius) were cut from four 40½" x 72" rectangles of 1/2" plywood (note primed piece sitting inside).

The panels were screwed to the frame, 2 inside and 2 out, with aluminum flashing included across the exterior bottom.





The result is a rigid sandwich 2½” thick, with a 50” circular, centered opening.

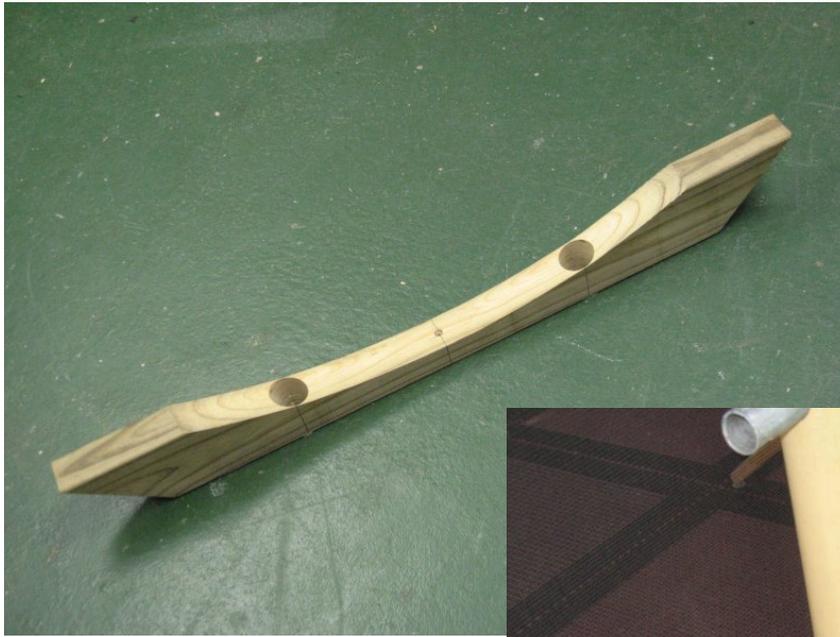


The octagonal arrangement of 2x4s provides an integral mounting frame just inside the opening.



The inside of the moon window opening was fitted with a 54” square insect screen. Eventually, this will be supplemented with sliding / folding shoji screens for privacy.

A bamboo lattice was constructed between the inside and outside plywood faces, as seen on the following pages.



A piece of 2x4 was cut to fit within the octagonal frame, then drilled to accept two vertical bamboo poles. (A matching piece was cut to fit the top of the window.)



Two smaller horizontal blocks were similarly fitted to accept two horizontal bamboo poles, one from each side.

These slightly thinner poles were sectioned with a Forstner bit matching the diameter of the vertical poles, and then attached to them with a dowel that ran through their centers, passing through the vertical poles.



Remaining “gaps” in the octagonal frame were filled with similarly-cut 2x4 pieces, and then the circumference was filled with indoor-outdoor wood filler. (The radius of the wooden inserts had been cut about 1/8” greater than the plywood faces to allow for uniform filling.)



Sanding and a coat of primer left the impression that the bamboo lattice was set in mortar.