



2012/08/21 07:28:35



2012/08/21 09:45:03

I took a day off to get ahead. The center cement boards, which had been mortared popped. I lost lots of time but epoxied them in place. They are there to stay now.

I bought another Angle-izer to template the pressure treated plywood for the ledge. This was a huge time saver.



2012/08/21 09:45:15



2012/08/21 09:58:22

Transferred the profile to the plywood.

I eventually got good at jiggging the cuts on the 14 inch saw.



2012/08/21 15:41:22



2012/08/21 17:48:15

Time for the copper. The copper was very very expensive. I totally underestimated the amount I needed. I bought a 24 inch brake (Bendito from McMaster Carr). Wonderful tool.

As in all things sheet metal, the trim is the hardest. Key tool was the Malco 12 inch metal folding tool. Made the 3/8 inch bends easy to do by hand.



2012/08/23 07:34:14



2012/08/24 08:14:23

Joined sections of drip edge. Worked OK.



2012/08/25 06:46:34



2012/08/26 07:41:21

Formed the cricket at back of chimney.



2012/08/26 07:47:06

Cricket in place.



2012/08/28 06:21:30

I made a small soldering iron furnace with fire bricks and the propane burner I used to cure the oven.



2012/08/28 06:24:37



2012/08/28 06:57:04

I soldered the curved drip edge to the cleats screwed to the pressure treated plywood edge.



2012/08/31 05:08:58

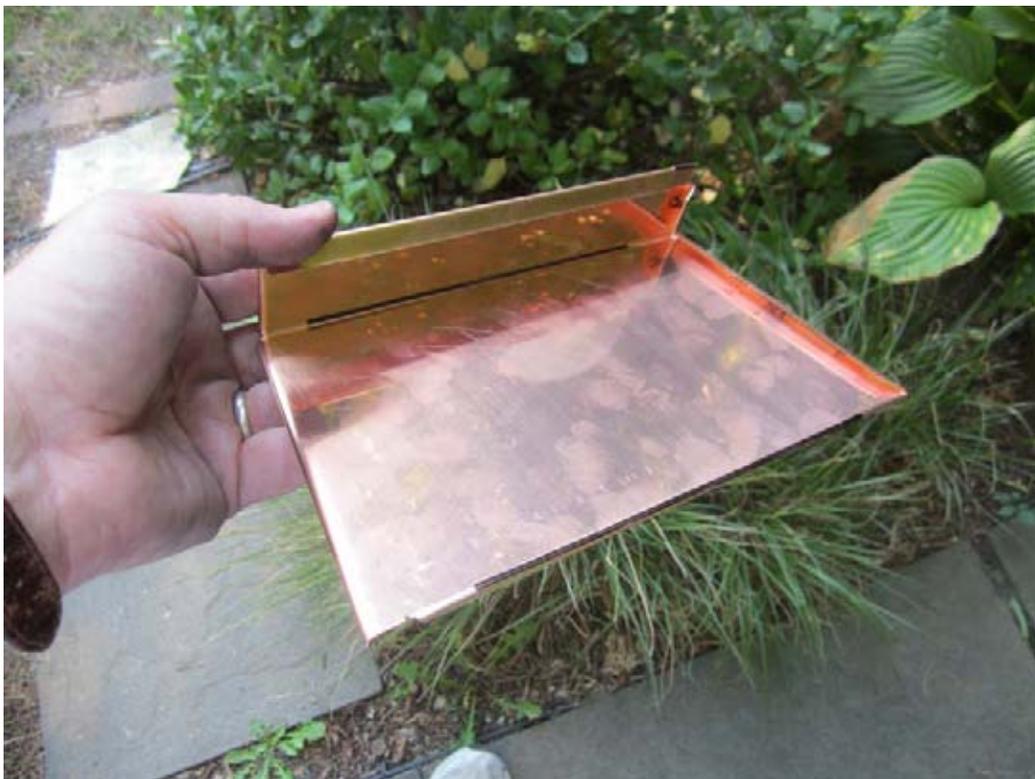


2012/08/31 05:09:10

With the Angle-izer, I then templated a series of shingles at the ledge.



2012/08/31 06:50:26



2012/08/31 06:59:35

A sample of the ledge shingle. These were "waterfalled" to drain without the need for soldering each joint.

I found the center of the GFRC dome with high school math.



2012/08/31 16:23:22



2012/09/01 06:52:13

I formed the first half diamond shingle. Note the notching in the upturn to allow the hand bend curve.

The outer side of the half diamond starter course shingle.



2012/09/01 06:52:24



2012/09/01 06:52:51

The half diamonds go up. Two upper cleats per shingle. The GFRC shells were so hard, I had to drill with glass drill bit. Went through 5 of them. Used high low stainless screws typically used for plastics. Worked great.

Used a plywood template for sizing the diamonds. Divided the base perimeter into equal number so course would fill entire ledge.



2012/09/01 07:06:10



2012/09/01 10:31:18

Made hundreds of cleats from scrap.

I told my daughter if she collected the scrap, she could cash in. She made \$43 from the local scrap metal recycler.



2012/09/01 12:13:54



2012/09/01 13:42:48

First row of full diamond shingles goes up. Each single has two lower downturned sides and two upper upturned sides - all formed with Malco metal folding tool.



2012/09/01 13:43:08

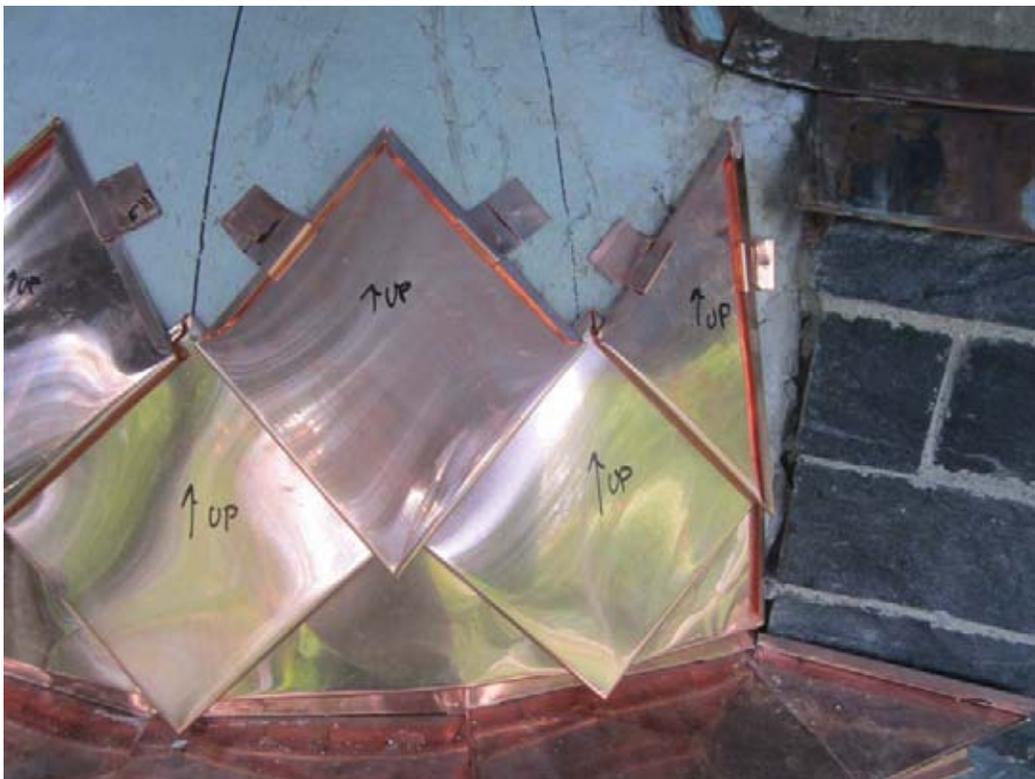


2012/09/02 06:15:32

cleats cleats cleats.



2012/09/02 08:03:46



2012/09/02 08:03:54

Used the Angle-izer to determine the geometry of each shingle course.

The upper and lower angles of each subsequent course got more acute and shingles got taller.



2012/09/02 10:44:39



2012/09/04 10:36:02