

REINKE SHAKES

Div. of Jame Kari LLC

210 S 4th Hebron NE 68370 402-768-7251 www.ReinkeShake.com

GEODESIC DOME SHINGLING INSTRUCTIONS page 1.

SAFETY: Roofing is a dangerous job. Of all the construction fatalities, falling off of a roof is a major contributor. Roofing can be deadly. Metal roofs can be slick. Some shingles may be oily. Use all the latest safety equipment available and comply with all local, state, and federal safety rules and OSHA regulations. Think each step through completely before taking action.

There are many ways to shingle a dome with Reinke Shakes. A few simple changes can alter the look in drastic manner.

To bend the shingles over the edges is very simple. One way is to use two large rubber hammers (available at automotive stores to put on hubcaps). Use one to hold down the part of the shingle that is nailed on, and the other to bend it over neatly.

BASIC INSTRUCTIONS:

Please look at the straight roof instructions on the web or included with the nails before reading these instructions.

POSITION AND NAILS: The holes go to the bottom. The nails show and are exposed. Yes, this is unconventional, but we have proven it to work for over 35 years now. In long sheets the metal expands and contracts enough that it works fasteners loose, but in the small size (just 8 inches between L & R nails) of our shingles, it works. We also provide special double zinc dipped and color coated nails to fit the holes punched in the shingles. The felt and/or ice & water shield is an additional barrier.

FELT OR ICE & WATER SHIELD: You can put felt rows between each row of shingles, or just stick a good quality ice and water shield over the entire structure and shingle over it. Placing felt between each row takes more time, but it does have a few advantages. The main advantage is that it lets the shingles give a little more if hail hits them and the hail resistance is higher - not against leaking, so much as resisting a dent. If you have no insulation in the home or building being shingled, felt between each row makes it a little quieter. Felt costs a little less, but that is easily offset by the extra time it takes. To meet the UL fire ratings, the tests were done with felt between each row.

I will stress again, use a 50 mil HIGH QUALITY ice & water shield, not the cheap stuff, or you will regret it.

1. Always start with the lower triangle / pentagon surfaces first, and go up. I would start in the back or least seen area also.
2. **OPTION ANGLE:** The shingles can be placed horizontal with the earth - level rows, or tilted slightly to be parallel with the bottom edge of the triangle surface.
3. **OPTION PATTERN:** The shingles can be offset by 1/2 shingle (6") on each row going up (traditional) or they can be lined up straight. Actually the offset can be any amount you want.
4. On the first, lowest row, always hold a shingle (up side down) half over the first shingle and half over the second shingle to space them correctly.

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5. For the second and additional rows, if the top edges of adjacent shingles don't have the correct spacing, the next row will sit up on the ridges and will cause a dark shadow area that is unattractive and lets too much weather under the shingles. To correct this, if the spacing between the two top edges is off, just use a rubber mallet or I use the rubber handle end of a fiberglass hammer, and hit down the roof on the top edge of one of the shingles to twist it slightly. This will change the gap to the desired spacing. You can check it with another shingle laid across the two.

6. SEAMS - OPTION A: The seams of the triangles / pentagons, can be met several ways. One way is to make a 'Z' shape from valley material, place it over the lower surface, and under the upper surface. Then it can be left that way or a ridge cap (full or half shingles place transverse to it) can be placed over it. On a dome if ridge caps are used, most of the time it is with half wide pieces of shingles.

7. SEAMS - OPTION B: Another way to treat the seams is to let the shingles run wild over the above surface and then set a power saw with a CARBIDE tipped blade to a depth of 7/32 or just less than a quarter inch. Wear safety glasses and other safety gear - metal chips will fly. Carefully saw the edge to a straight line. Next, shingle the surface above it and let those shingles run down past the lower surface a inch or more. After that surface is shingled, power saw the edge about 1/2 inch below the seam line for an slight overhang.

8. SEAMS - OPTION C: A seamless way to do a geodesic dome is to just make level rows, bottom to top, and all the way around. As you approach another surface, just use a level or laser level and keep the same distance to the ground all the way. When transitioning from one surface to another you may have to flatten out some corrugations slightly and use a rubber hammer (available from auto stores for installing hub caps) to form the shingles over the angles and bends. Done carefully, this makes the cleanest and most weather tight roof.

Check out the photos of domes on the website: www.reinkeshakes.com

Bob Reinke
Reinke Shakes