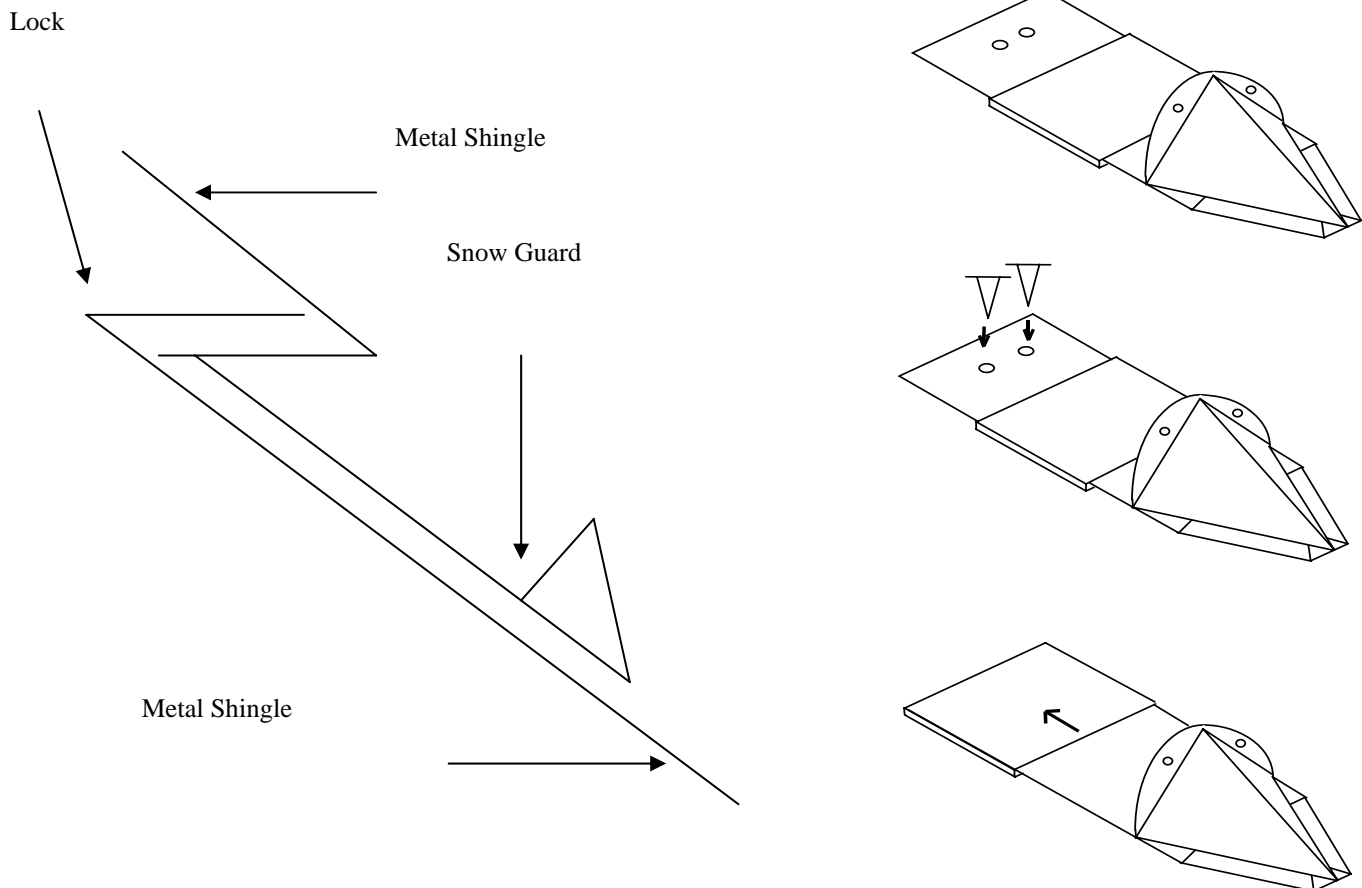


Installation Instructions for #30Z Snow Guards

1. Layout is the same as our #10 snow guard for slate or tile roofs, see next pages.
2. Set the snow guard on the face of the metal shingle as shown in figure #1.
3. Push the top of the snow guard strap (the end with the nail holes) up into the lock of the shingle course just above. Push the strap up as far as the lock will allow, while leaving the nail holes accessible.
4. Install two fasteners through the holes in the snow guard strap, directly through the face of the shingle below, and into the underlying wood deck. Caulk the heads of the fasteners.
5. Slide the sleeve up over the fasteners and as far up into the lock as possible. This counter-flashes the fasteners. The caulking from the fastener heads will hold the sleeve in place.
6. Move to next snow guard.

Figure 1

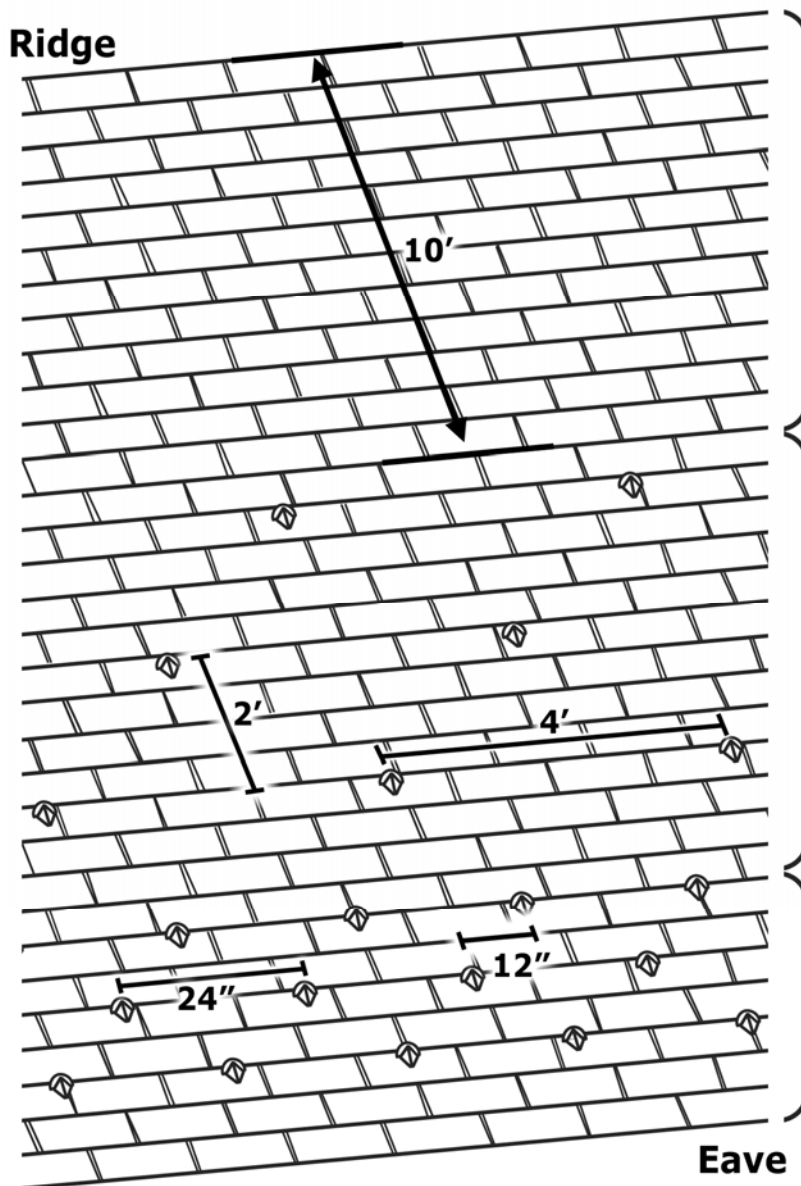


#30Z Half-Round Pad-Style Snow Guard for Metal Shingle Roofs

#30Z Pad Style Snow Guard Layout for Areas with Less Than 75 psf Snow Load

The image below shows a sample installation of a roof with a rafter length greater than 15', a roof pitch of 24/12 or less and a Building Design Load of less than 75 psf. All snow guard installations must have the standard three-row pattern along the eave. Remaining snow guards should be evenly spaced between the top of the three-row pattern to within 10' of the ridge. If the rafter length is less than 15' you only need the three-row pattern which requires 17 snow guards per 10' of eave.

Follow the installation instructions for the #30Z and use the layout below.



2 X 4 Layout – less than 75 psf Building Design Load and less than 24/12 roof pitch using 12 snow guards per square.

Top ten feet of rafter does not generally require snow guards except in extreme snow load areas.

2 X 4 Supplemental Pattern

This pattern is for installations using 12 snow guards per square including the standard three-row pattern. Space rows 2' vertically and 4' horizontally to within 10' of the ridge.

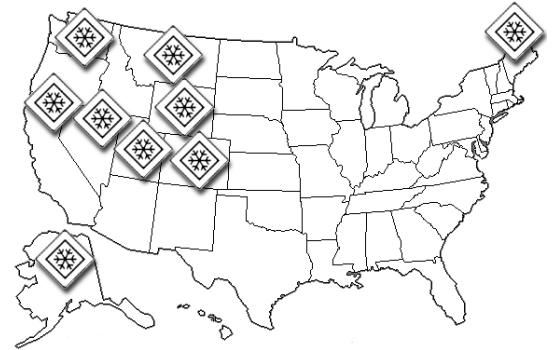
Standard Three-Row Pattern - for all roofs. Three rows 24" on center horizontally with the middle row staggered 12".

#30Z Half-Round Pad-Style Snow Guard for Metal Shingle Roofs

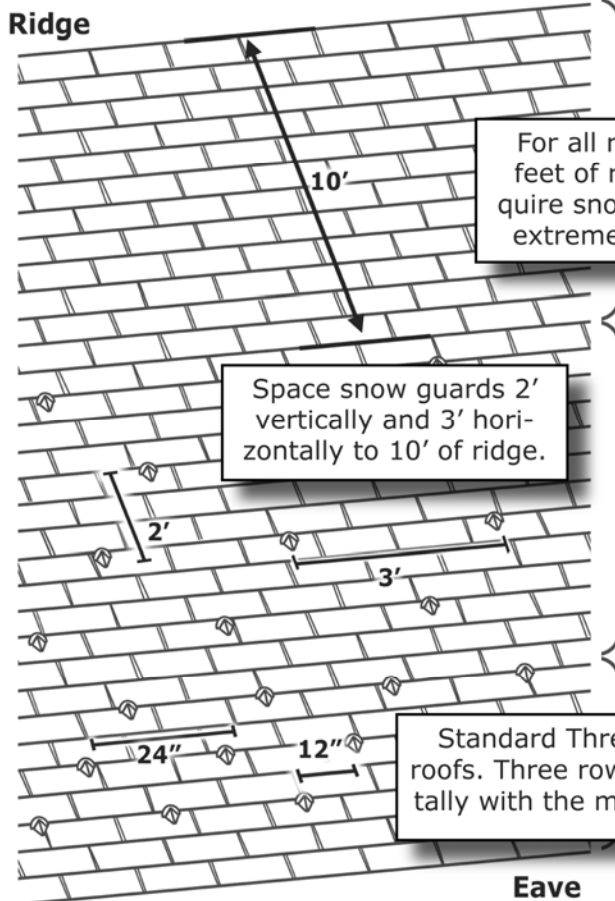
#30Z Pad Style Snow Guard Layout for Extreme Snow Areas Greater Than 75 psf Design Load

Most snow guard installations will use 12 snow guards per square with our standard 2 X 4 layout. If your project is in an extreme snow area, greater than 75 psf you will need to use one of these layouts. If your Design Load is between 75 psf and 110 psf use the 2 X 3 layout. If your Design Load is from 111 psf to 150 psf use the 2 X 2 layout.

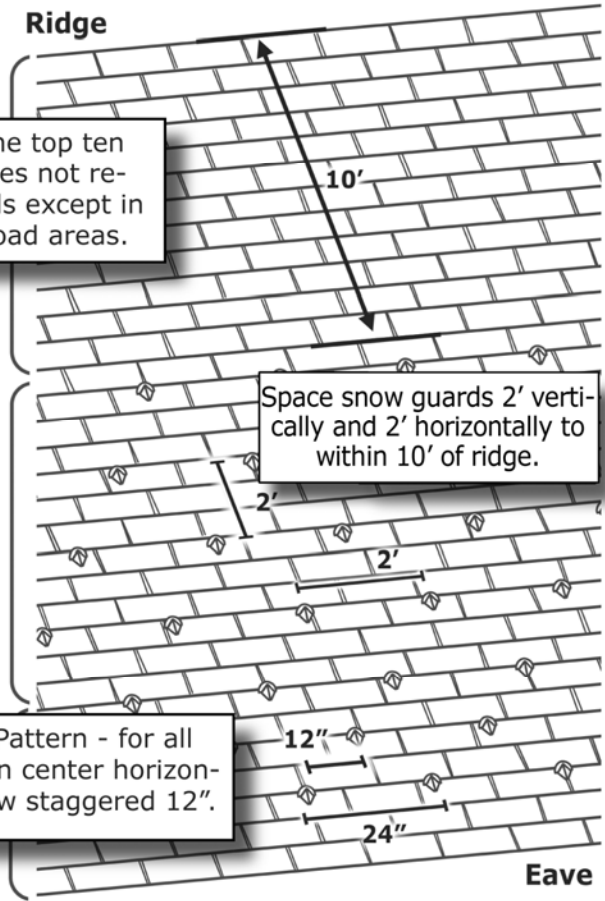
Follow the installation instructions for the #30Z snow guard and use the appropriate layout below.



2 X 3 Pattern - for roofs 76 psf to 110 psf, 17 to 21 snow guards per square



2 X 2 Pattern - for roofs 111 psf to 150 psf, about 22 to 27 snow guards per square



#30Z Half-Round Pad-Style Snow Guard for Metal Shingle Roofs