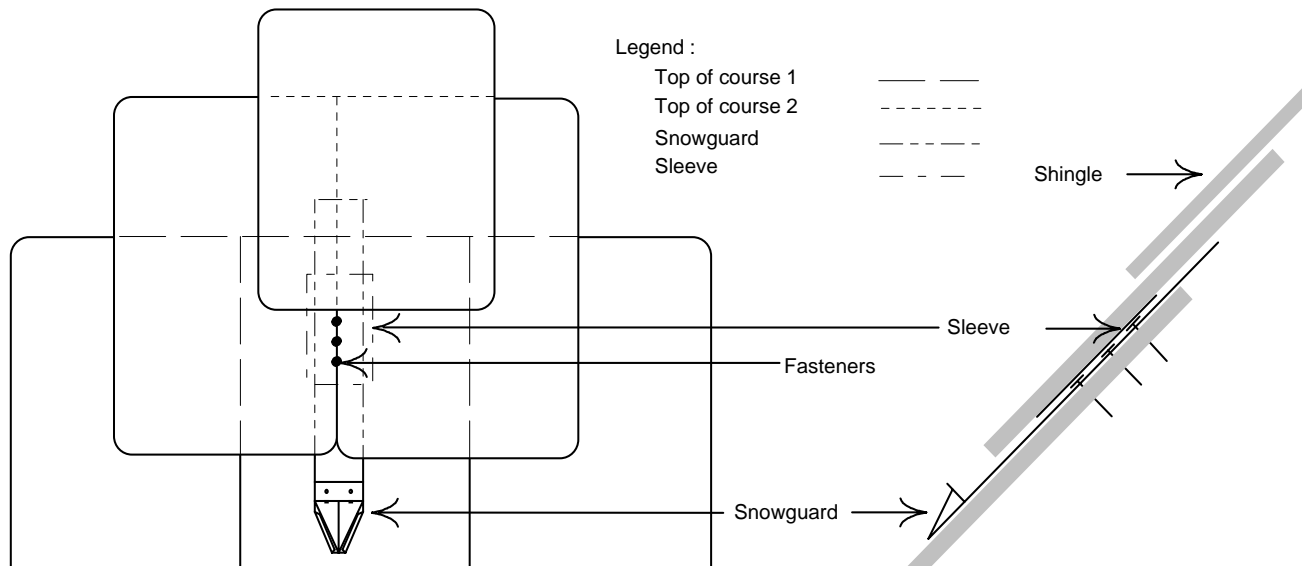


Installation Instructions for #11 Retrofit Snow Guard

1. The placement is pictured below and is dictated horizontally by joints in the roofing material.
2. Slide the sleeve to the bottom of the strap.
3. Slide the snow guard up between the rows of shingles so that the snow guard strap is centered on the joint of the course of slate or shingles above. The bottom 3 1/2" of the snow guard should remain exposed below the butt end of the third course of slate or shingles.(see diagram below)
4. Fasten the snow guards by inserting the fasteners through the snow guard strap, through the slate or shingle and into the roof deck. It may be useful to pry the shingles apart to have easier access to the snow guard strap below. (see diagram below)
5. Fastener heads should be as flush with the snow guard strap as possible (a nail set or flat head screw may help to achieve this) and covered with an acceptable sealant.
6. Slide the counter-flashing sleeve up into place over the fastener heads so that the top of the sleeve is under the second course of shingles above. It may help to spray the strap with silicone to help the sleeve slide easier. (Do not use an oil-based product that may run.) The sleeve is held in place by friction and the sealant used on the fastener heads. This will counter-flash the fastener holes and preserve the roof's integrity.

Note: the #11 is always installed between two slates.

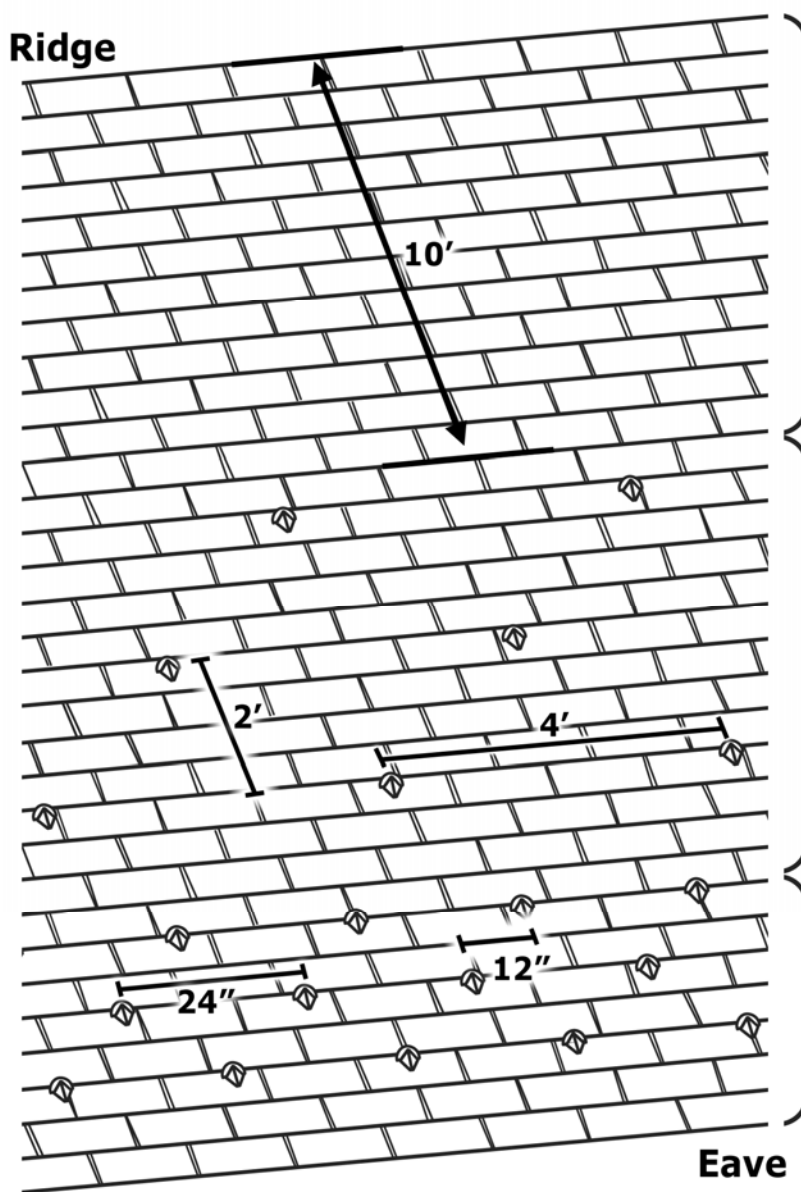


#11 Pad-Style Snow Guard for Existing Slate, Flat Tile and Cedar Shingle Roofs

#11 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 #11 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.

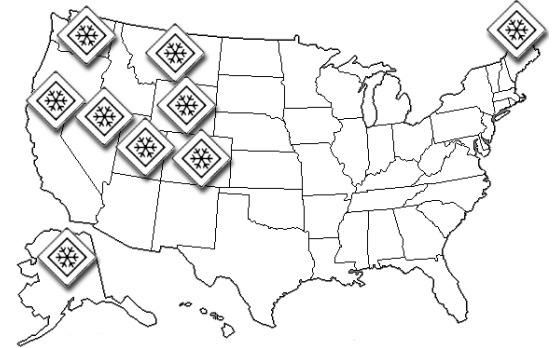
Standard Three-Row Pattern - for all roofs. Three rows 24" on center horizontally with the middle row staggered 12".

#11 Pad-Style Snow Guard for Existing Slate, Flat Tile and Cedar Shingle Roofs

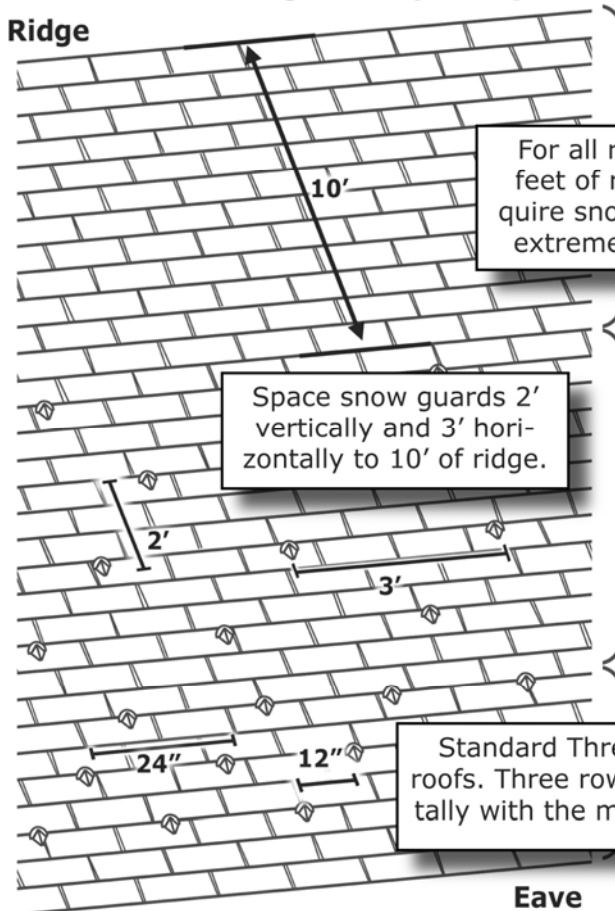
#11 Pad Style Snow Guard Layout for Extreme Snow Areas Greater Than 75 psf Design Load

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.

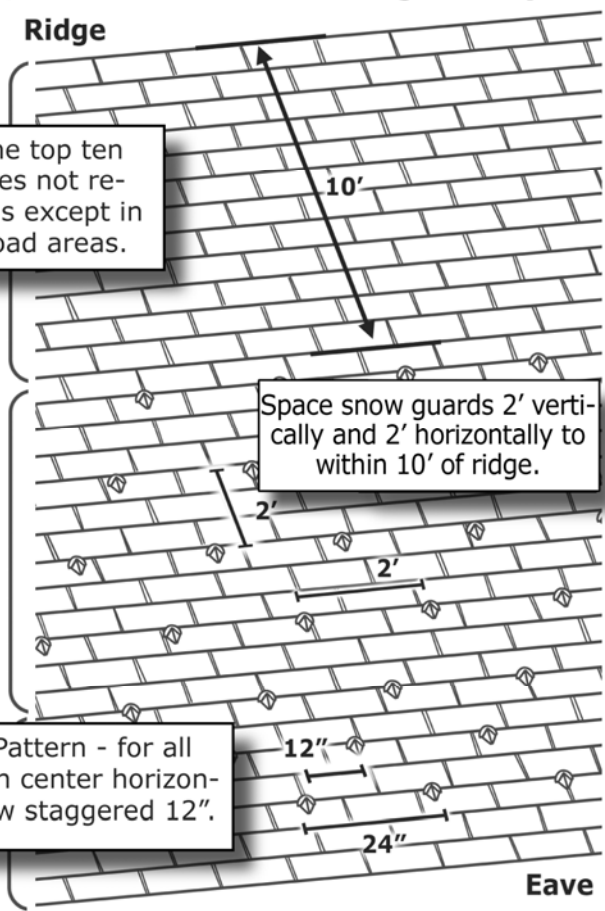
Follow the installation instructions for the #11 snow guard and use the appropriate layout below.



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



#11 Pad-Style Snow Guard for Existing Slate, Flat Tile and Cedar Shingle Roofs