

Fusion-Guard Snow Guard Installation Instructions

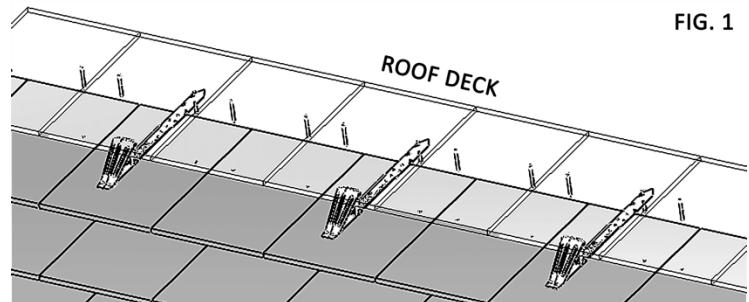
ROOF TYPES

- New or Existing Slate
- New or Existing Cedar Shingle
- New or Existing Synthetic Roofing Material
- New or Existing Tile (Flat, French, Spanish or Rounded)
- New or Existing Composition Shingle

NEW ROOF INSTALLATION

1. Install the first 2-3 rows of roofing material (3 rows for slate, tile or shingle. 2 rows for synthetic materials), and place the strap of the snow guard on the roof deck (fig. 1).

Note: When installing on 3-tab shingles, lay Fusion-Guard on top of shingle, centering on keyway between shingles.



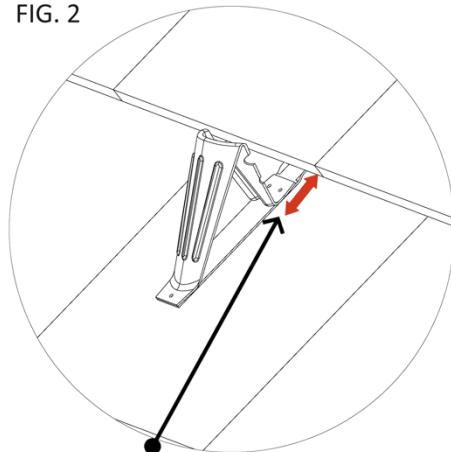
2. Place snow guard low enough on shingle to leave a minimum gap of 5/8", or at least 3 times the thickness of the shingle, whichever is greater, from the shingle above (fig. 2).
3. Use a minimum of 2 fasteners of a material compatible with snow guard and roof system to attach snow guard.

EXISTING ROOF INSTALLATION (RETROFIT)

1. Slide snow guard up and between rows of roofing material, positioning strap so it is able to hook onto one of the fasteners on the roofing material above snow guard. Pull down into place so snow guard is well-seated.
2. It may be necessary to repeat step 1 until snow guard "hooks" properly. The top of the pad should be placed to leave a minimum gap of 5/8", or at least 3 times the thickness of the roofing material above, whichever is greater (fig. 2).

Note: Use appropriate retrofit hook to adequately space snow guard head 3 times the thickness of the roofing material. (fig. 2)

FIG. 2

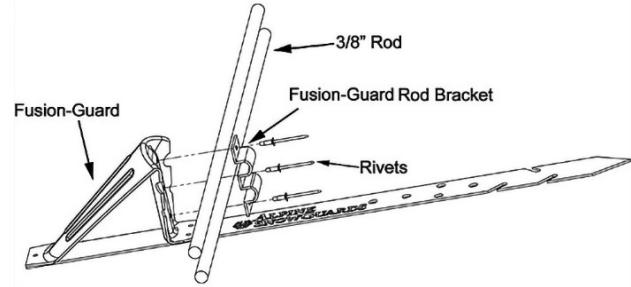


PROPER SNOW GUARD PLACEMENT
Ex. 0.5" shingle thickness X 3 = 1.5" spacing
Back of head is 1.5" from front edge of shingle

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Rod Installation: (Optional, for diagram refer to assembly sheet)

1. Fasten Fusion-Guard Rod Bracket to face of snow guard using the 3 rivets or #6-32 sheet metal screws.
2. Insert 3/8" rod (RD77).
3. On runs longer than 6', join rods with external couplings (RD87).



Note: Rod style snow guards must have a break in the assembly every 48' of eave length to allow for thermal expansion. Rods have a 6-inch maximum allowable overhang from end bracket.

4. End collars (RD65) should be placed over the end of each run of rod, on the inside of the outermost brackets. End collars should be installed 1/2" from bracket.
5. Optional ice flags (RD95) are available.

OPTIONAL ROD LAYOUT GUIDELINES

Roof Pitch	Alpine SnowGuards' Guideline*
8/12	Rods installed at least on lowest row of pads
9/12	Rods installed at least on lowest 2 rows of pads
10/12	Rods installed at least on lowest 3 rows of pads
Over 10/12	Rods installed on all rows of pads

*Performance will vary with roof pitch, snow loads, density of snow, etc. Some areas may require more rods than others. The number of rows installed is at the discretion of the end user. If the above rod layouts do not meet your desired performance, additional rows of Fusion-Guard may be installed.

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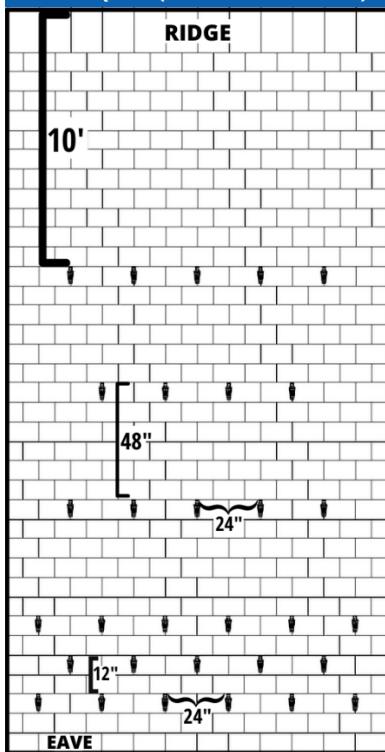
STANDARD SNOW GUARD LAYOUT OPTION

IMPORTANT: All layouts begin with a 3-row pattern. Estimated quantities provided include 3-row pattern. If you have any questions, please contact us at 888-766-4273.

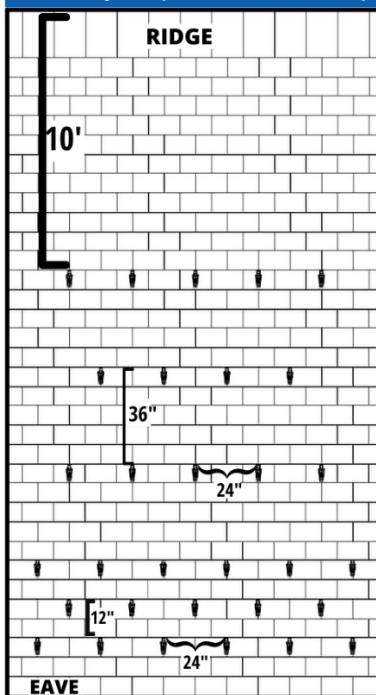
Please use the guidelines below to determine the appropriate layout for your installation.

PAD LAYOUT GUIDELINES					
Layout	Rafter Length	Ground Snow Load (PSF)	Roof Pitch	Est. Snow Guard QTY.	Spacing
3-Row Pattern	15' or Less	75 psf or Less	16/12 or Less	17 per 10' of Eave	3 rows, 24" on center horizontally with middle row staggered 12". Rows vertically spaced every other course.
4 x 2 Pattern	Greater Than 15'	75 psf or Less	16/12 or Less	12 per roofing square	Space rows 2' horizontally and 4' vertically to within 10' of the ridge.
3 x 2 Pattern	Any	76 - 110 psf	16/12 or Less	18 per roofing square	Space rows 2' horizontally and 3' vertically to within 10' of the ridge.
2 x 2 Pattern	Any	111 - 150 psf	16/12 or Less	24 per roofing square	Space rows 2' horizontally and 2' vertically to within 10' of the ridge.

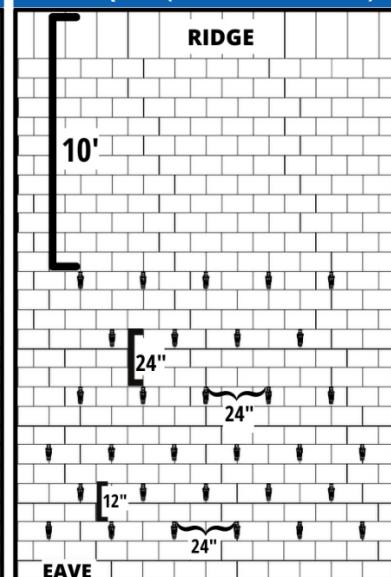
12 PER SQUARE (3-Row + 2 X 4 PATTERN)



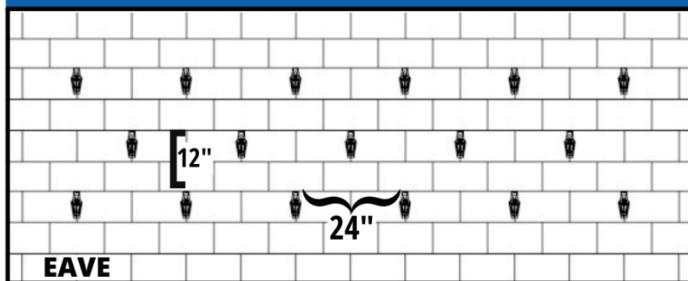
18 PER SQUARE (3-Row + 2 X 3 PATTERN)



24 PER SQUARE (3-Row + 2 X 2 PATTERN)



FUSION-GUARD THREE-ROW PATTERN



Document version 12.06.2022

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