

FUSION-GUARD-11 Snow Guard

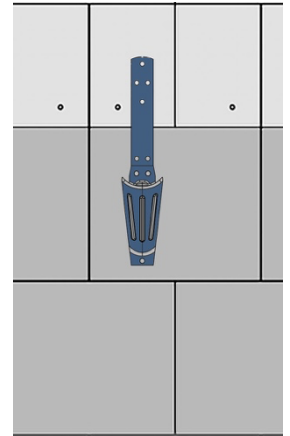
ROOF TYPES

- New/Existing Synthetic Shake, Slate, or Tile
- New/Existing Composition Shingle

NEW ROOF INSTALLATION

1. Install the first 2 rows of roofing material.
2. For installation, the snow guard should be placed on the shingles so that all snow guard fasteners are installed above the shingle nail line.
3. Measure the butt-end thickness of the shingle. Place the guard low enough to leave a gap between the shingle and the snow guard head that is at least **3x the thickness** or **5/8" minimum**, whichever is greater. (fig. 2)
4. Use the 2 vertical fastener holes in the diamond pattern to attach to rafters. Use two the two horizontal fastener holes in the diamond pattern for installation into sheathing

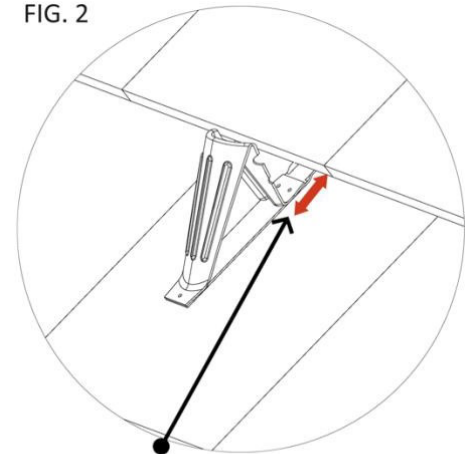
FIG. 1



EXISTING ROOF INSTALLATION

1. Start on the second row of roofing material.
2. Position the guard low enough on the shingle to leave a gap from the shingle above that is 2.5" minimum. This spacing will allow installation of the FUSION-SLEEVE. (fig. 2-fig. 3)
3. With the strap of the snow guard under the upper row of roofing material, fasten the snow guard through the face of the shingle using the lowest two fastener holes on the strap, directly above the pad head.
4. Cover fasteners with the roofing manufacturer's approved sealant and slide the retrofit sleeve over the top of the fasteners. (fig. 3)

FIG. 2

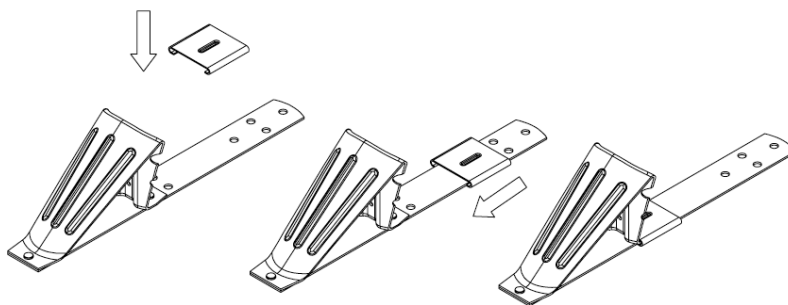


PROPER SNOW GUARD PLACEMENT

New Roof Install: Leave a gap from the shingle above that is at least 3x the thickness of the shingle, with a 5/8" minimum.

Existing Roof: Leave a 2.5" minimum gap to accommodate installation of the sleeve.

FIG. 3

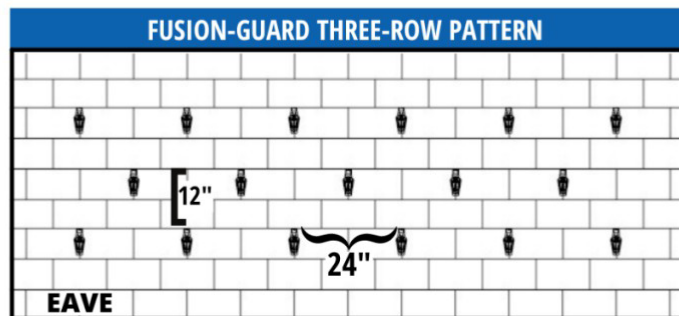
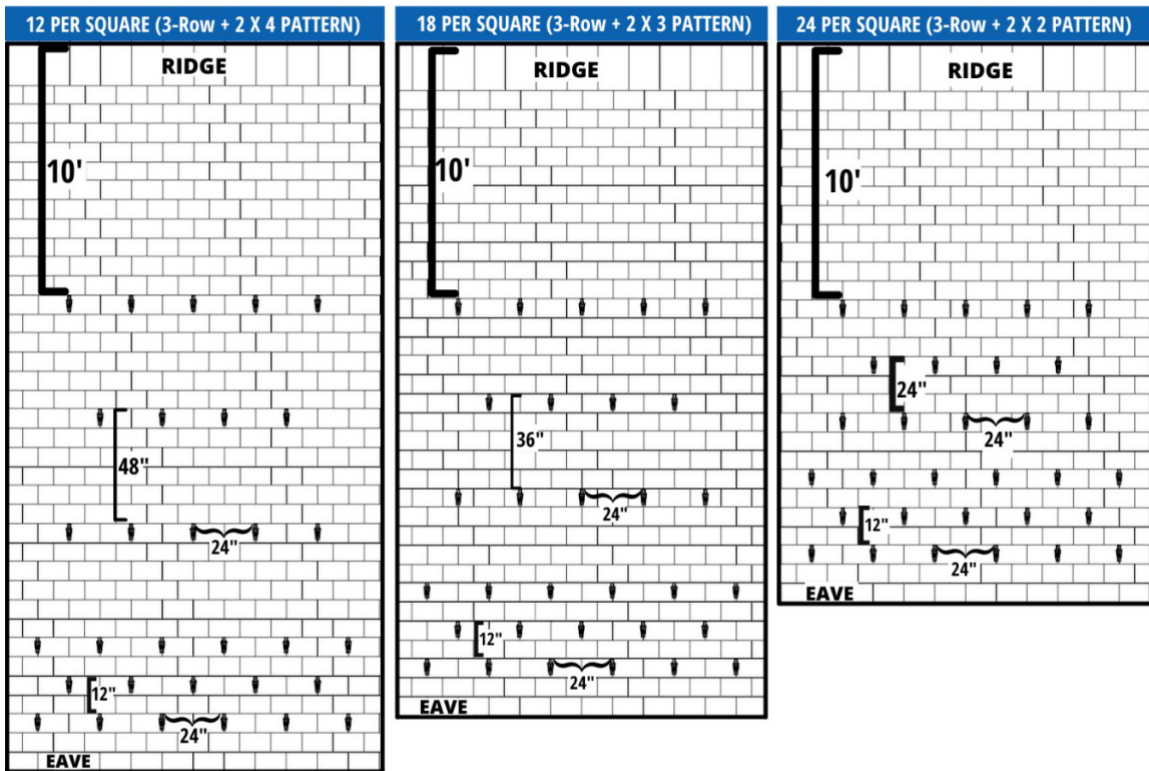


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STANDARD SNOW GUARD LAYOUT OPTION

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.



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ROD/PIPE INSTALLATION (OPTIONAL): Refer to Assembly Sheet for Diagram

1. Fasten the Rod Bracket to the snow guard's head using 3 rivets or #6-32 sheet-metal screws.
2. Insert 3/8" rod (RD77) or pipe (PP77).
3. On runs longer than 6', join rods with external couplings (RD87).

Note: 3/8" rod or pipe snow guards must have a break in the assembly every 48' of eave length to allow for thermal expansion, and have a maximum allowable overhang of 6 inches from the 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 the 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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