

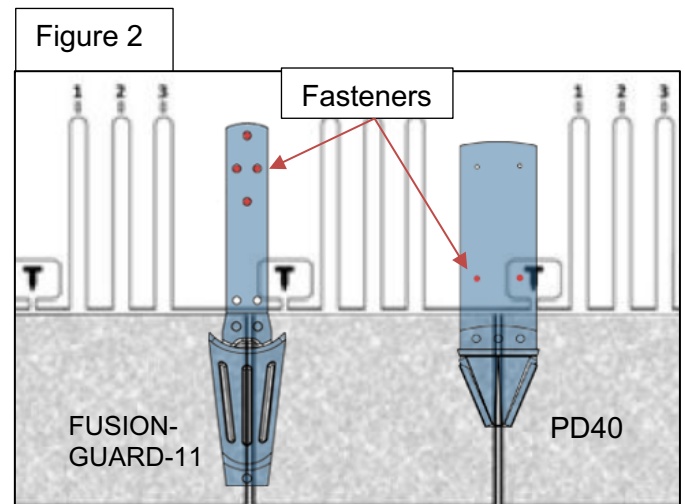
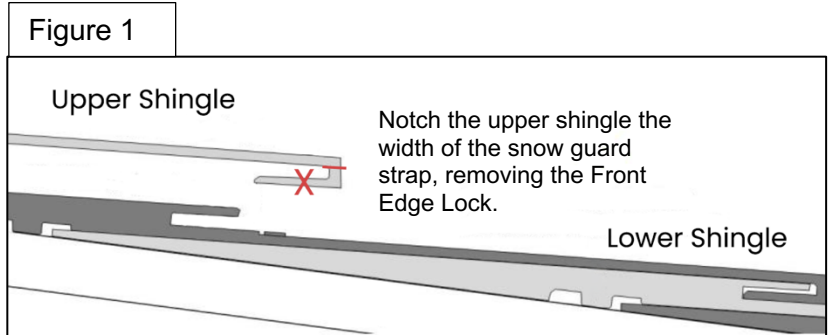
## PD40 & FUSION-GUARD-11 Pad-style Snow Guards for F-Wave™ XTM™ Interlocking Shingle Installation Instructions

### ROOF TYPES

- F-Wave™ XTM™ Synthetic Interlocking Shingles

### INSTALLATION

- Install the first 2 rows of shingles.
- Before locking the next course into place, use an oscillating multi-tool to notch the Front Edge Lock on the bottom edge of the upper shingle. (See Figure 1)
  - Cut a clean channel wide enough to easily accommodate the width of the snow guard strap.
  - This notch bypasses the mechanism to provide a perfectly flush joint and eliminates shingle uplift.
- Position the snow guard directly onto the face of the shingle.
  - Align the top of the snow guard's gusset with the butt of the upper shingle.
- Secure the snow guard strap into the roof deck, ensuring fasteners are driven straight and flush. (See Figure 2)
  - PD40:** Secure using a minimum of 2 approved fasteners in the lower holes on the snow guard strap, aligning with the fastener boxes on the shingles.
  - FUSION-GUARD-11:** Secure using a minimum of 2 approved fasteners in the holes in the diamond pattern on the upper end of the strap.
- Apply F-WAVE-approved sealant directly under the affected shingle tab before finalizing the lock. Press down firmly to ensure a clean, watertight compression seal. (Note: Do not use asphalt-based sealants or adhesives). See F-Wave™ XTM™ Synthetic Interlocking Shingles installation instructions for sealant list.

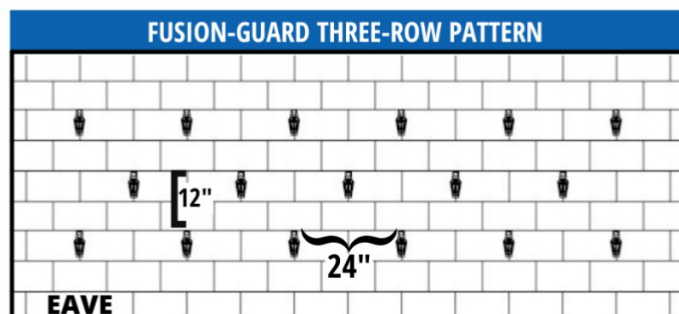
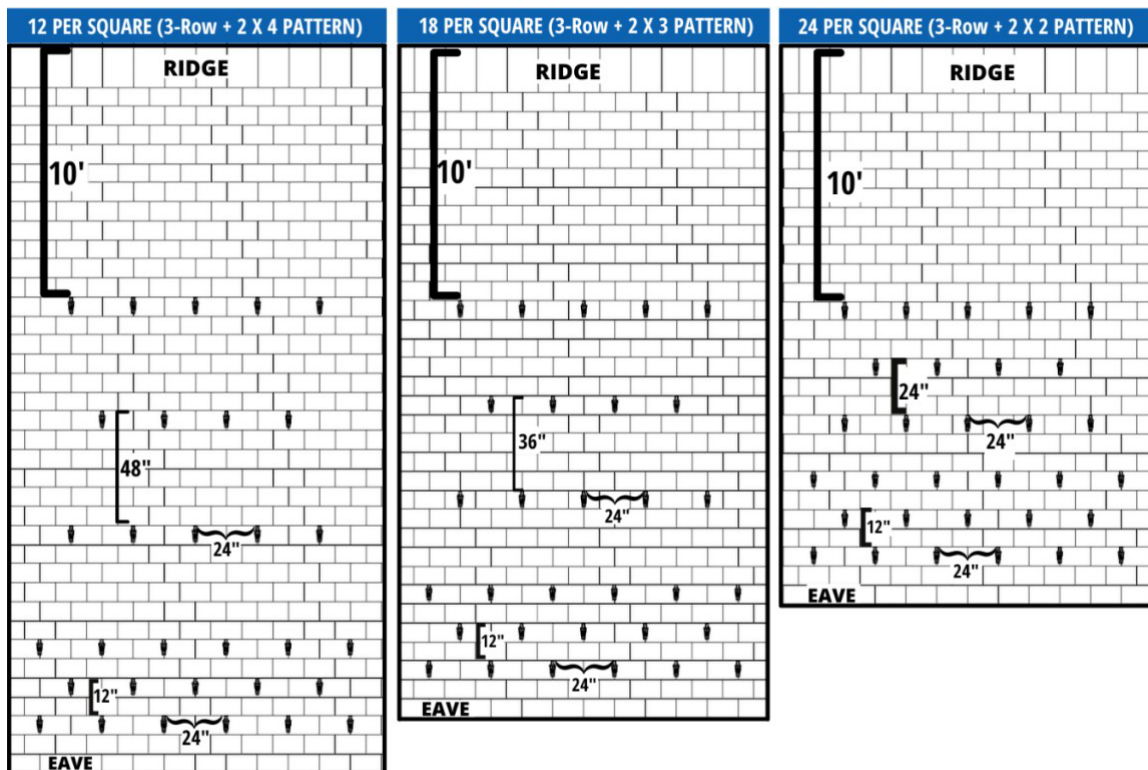


## PD40 & FUSION-GUARD-11 Pad-style Snow Guards for F-Wave™ XTM™ Interlocking Shingle Installation Instructions

### 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.                                     |



## PD40 & FUSION-GUARD-11 Pad-style Snow Guards for F-Wave™ XTM™ Interlocking Shingle Installation Instructions

### 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. |                                                  |