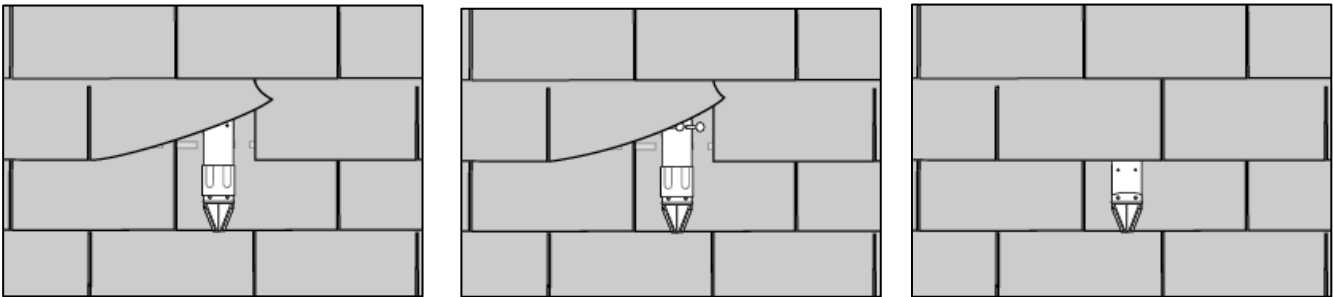


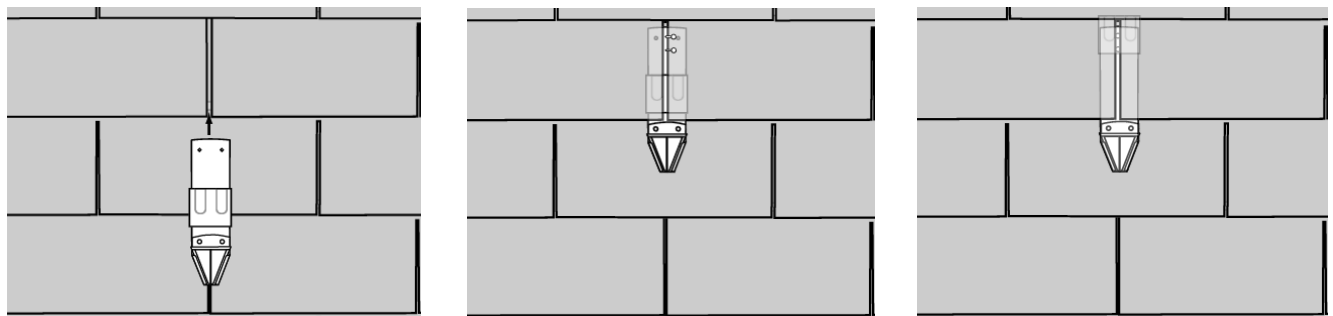
Installation for the #40R on Composition Shingle Roofs

- There are three ways to install the #40R snow guard.
 - Option 1:** Carefully lift shingles and place snow guard in place. Fasten the snow guard through the two holes in the strap, caulking the fasteners above and below.
 - Option 2:** Fasten through a gap in the shingle tabs and fasten through the center of the snow guard strap.
 - Option 3:** If the shingle cannot be lifted or the snow guard cannot be slid in place, the snow guard can be fastened to the row of shingles below. The sleeve is then slid up under the snow guard shingle as far as possible. This will counter flash the fastener heads.
- Slide the sleeve up over the fasteners and under the course of shingles above. This counter flashes the fasteners. The caulking from the fasteners heads will hold the sleeve in place.
- Lay shingles back down flat.

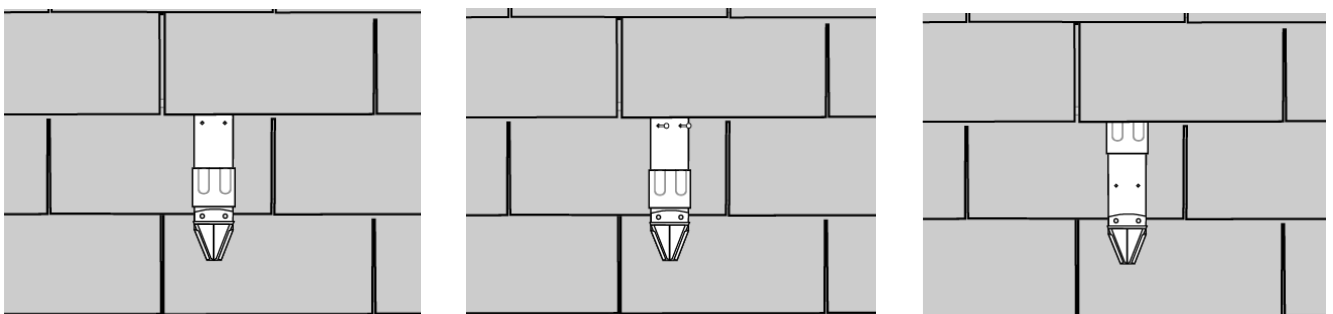
Option 1



Option 2



Option 3

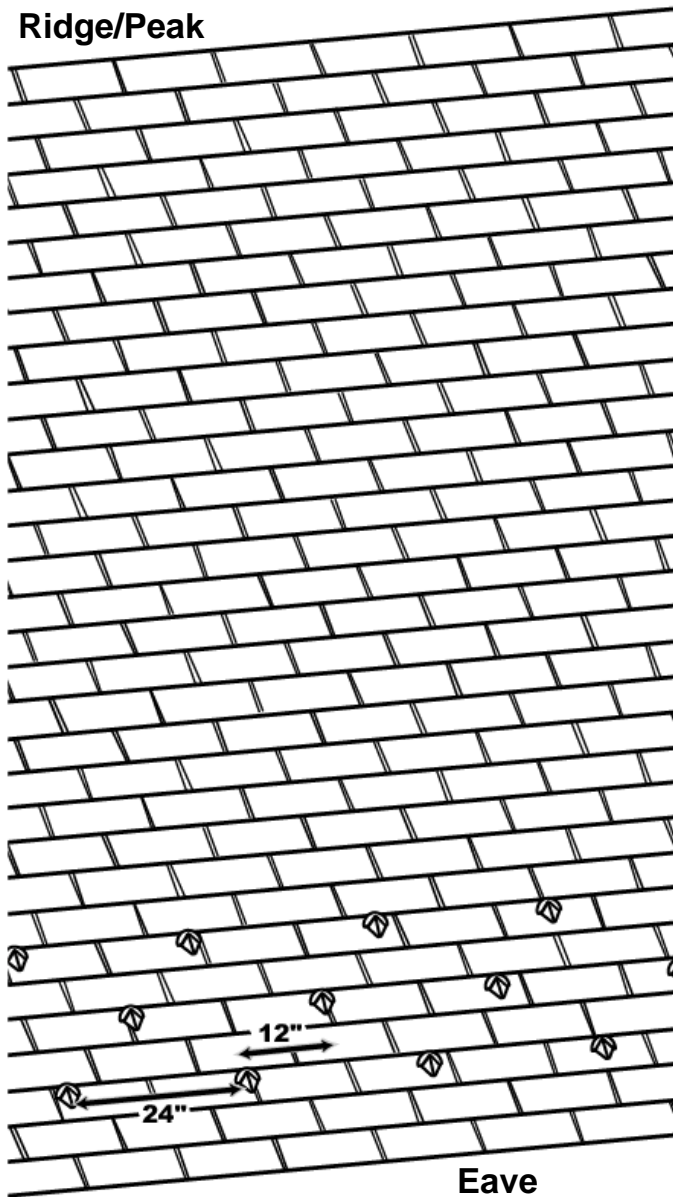


#40 Half-Round Pad-Style Snow Guard for Composition Shingles

**Pad Style Snow Guard Placement Less Than 75 psf Snow Load
On Composition Shingle Roofs with a 75 psf or Less Design Load and a 6/12 or Less Roof Pitch**

If your roof has the above conditions, you only need the three-row pattern along the eave regardless of the rafter length. If your roof does not meet either of the conditions, i.e. if the Building Design Load is more than 75 psf or if the roof pitch is more than 6/12, use the layouts listed on the following pages.

Ridge/Peak



Three-Row Pattern

The three-row pattern uses 17 snow guards for every 10' of eave. (eave length (in feet) X 1.7 = qty. needed).

Standard Three-Row Pattern

24" on center horizontally, 2 courses of shingles vertically, with the second row offset 12"

#40 Half-Round Pad-Style Snow Guard for Composition Shingles

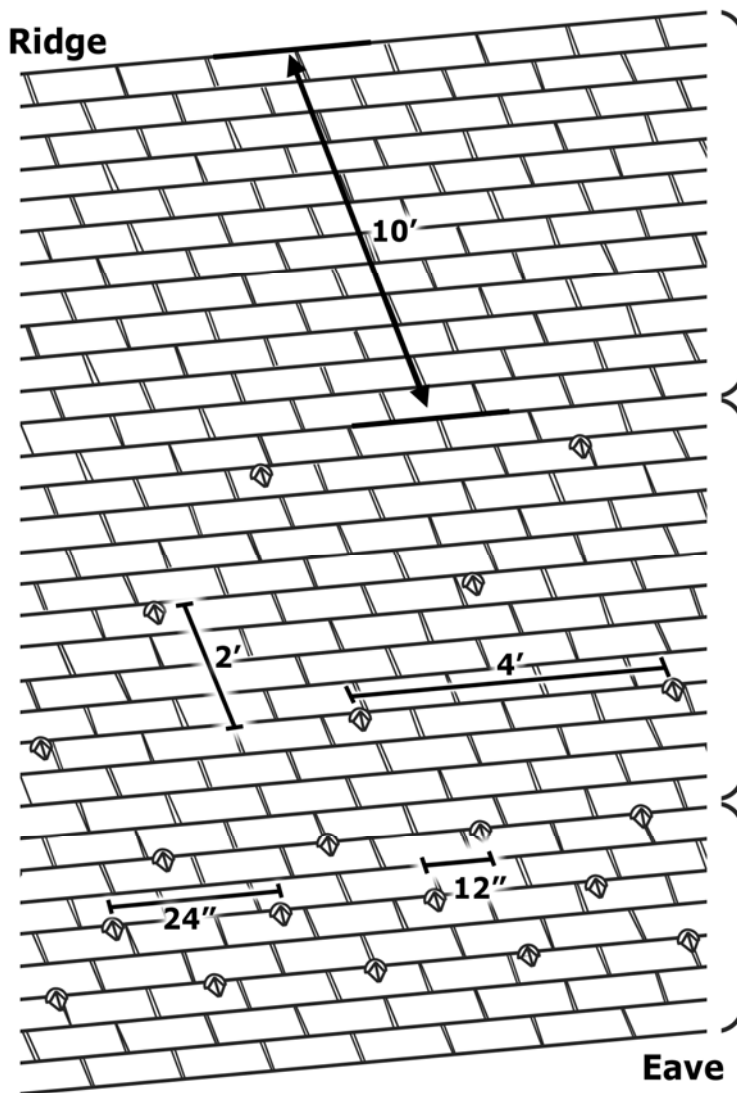


**#40 Pad Style Snow Guard Placement Less Than 75 psf Snow Load
On Composition Shingle Roofs with a 75 psf or Less Design Load and a More Than 6/12 Pitch**

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.

12

If the Building Design Load is less than 75 psf and the roof pitch is less than 24/12, but more than 6/12, you will need 12 snow guards per square using the 2X4 layout.



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.

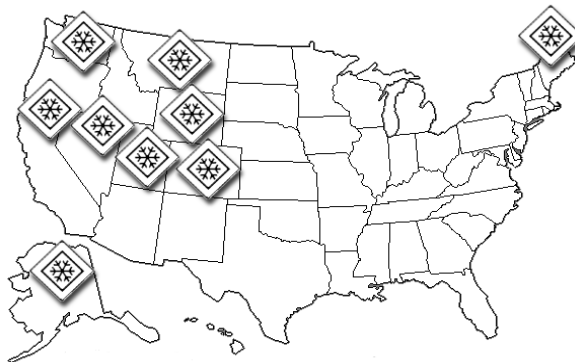
Standard Three-Row Pattern - for all roofs.

Three rows 24" on center horizontally with the middle row staggered 12".

#40 Half-Round Pad-Style Snow Guard for Composition Shingles

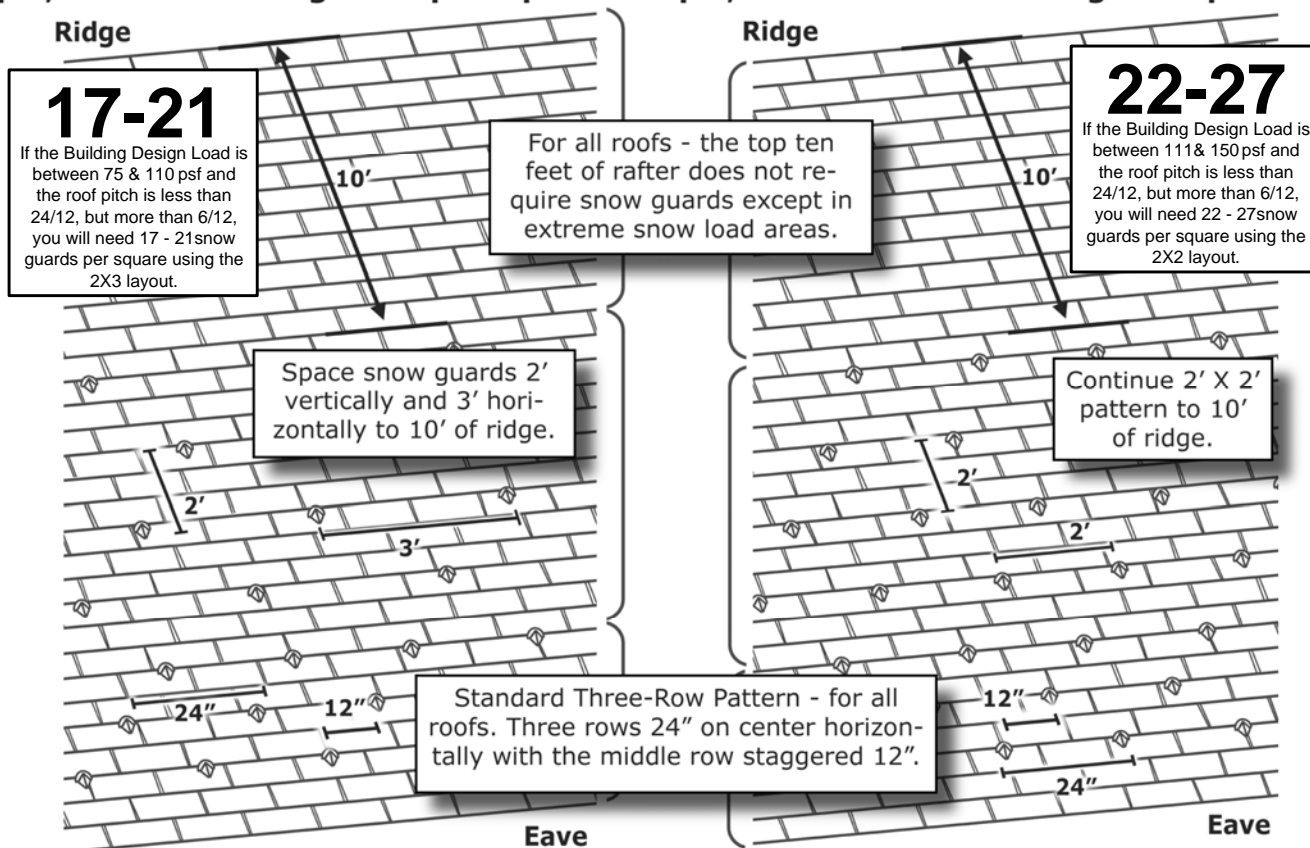
Pad Style Snow Guard Placement for Extreme Snow Areas Greater Than 75 psf Design Load

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 use the 2 X 3 layout. If your Design Load is from 111 psf to 150 psf use the 2 X 2 layout.



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



#40 Half-Round Pad-Style Snow Guard for Composition Shingles