



PP115R Snow Guard Installation Instructions

Typical Roof Types:

- Existing Membrane (EPDM, TPO, PVC)

Base Plate Installation:

The Base Plate is the flat stainless steel piece with the two threaded studs.

NOTE: In most cases, 4 corners are acceptable for ferrule placement.

1. Place the base plate on top of the finished membrane roof and mark the locations of the four corner fastener holes.
NOTE: The threaded studs on the base plate are not centered. Align the base plate so the studs are on the upslope end of the base plate.
2. Remove the base plate and at the four marked locations, bore four one-inch holes through the finished membrane and through the insulation until the substructure is reached.
3. Measure the depth of each hole and cut the ferrules to rest on the substructure and to be flush with the finished roof surface when inserted into the holes. Drop the ferrules into place. The ferrules resting on the substructure will prevent the insulation from compressing when the base plate is tightened into place.
4. Place the base plate on top of the finished membrane roof so that the four fastener holes line up with the centers of the four ferrules. The holes in the base plate will lock into the ferrules when the ferrules are positioned properly.
5. Fasten the base plate to the substructure using fasteners that are appropriate for the decking type and the insulation thickness, making certain that the base plate cannot shift.
6. Consult with an engineer, with Alpine SnowGuards or with a fastener company to determine the proper fasteners for attaching the base plate to the substructure.



Membrane Flashing of Base Plate:

1. Use an acceptable piece and size of flashing material to cover the base plate in a method accepted by the membrane manufacturer. This is commonly referred to as "Flashing Patch" or "Target Patch". The size must be a minimum of 12" x 12", however, each membrane manufacturer has specific requirements that must be met.
2. In the flashing material, cut two holes small enough to fit tightly over the 2 threaded studs of the base plate.
3. Before installing the flashing material, apply a generous amount of an acceptable sealer around the 2 threaded studs.
4. Apply flashing material over base plate and seal the perimeter of the flashing to the deck sheet.
5. The threaded studs are now the only part of the base plate exposed.
NOTE: Due to the sealer applied around the studs, there may be bleed out at this opening. When the bracket is installed and tightened, this bleed out will assist in creating a watertight compression fitting.

Snow Guard Bracket Installation:

1. Install snow guard bracket over the threaded studs. The bracket will be centered on the base plate when installed properly.
2. Place one bonded washer over each stud and press them all the way down against the bracket.
3. Thread one nut onto each stud and tighten.
4. Install pipes, Couplings, End Caps, and End Collars. (NOTE: On three-pipe systems, you will need to stagger the End Collars from outside of the brackets, to inside of the brackets).

Layout for Pipe-Style Snow Guard Brackets:

- Contact Alpine SnowGuards for detailed layout information.
- To allow for thermal expansion, do not install runs of snow retention pipe or bar in excess of 100 feet long without a break.
- The first row of snow guards are installed above the outermost wall or support of the building.

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