



## PP115R Snow Guard Installation Instructions

### ROOF TYPES

- Existing Membrane (EPDM, TPO, PVC)

### Base Plate Installation

Base Plate is flat stainless-steel component with two threaded studs.

1. Place base plate on top of finished membrane roof and mark locations of six fastener holes.

**Note:** *Threaded studs on base plate are not centered. Align base plate so studs are on upslope end of base plate.*

2. Remove base plate and at six marked locations, bore one-inch holes through the finished membrane and through insulation until substructure is reached.

3. Measure depth of each hole and cut ferrules to rest on substructure to be flush with finished roof surface when inserted into holes. Drop ferrules into place.

Ferrules resting on substructure will prevent insulation from compressing when base plate is tightened into place.

**Note:** *Contact Alpine SnowGuards for ferrule lengths greater than 6".*

Optional: apply appropriate amount of low expansion spray foam insulation inside six ferrules. This is to prevent condensation on underside of metal decking.

4. Place base plate on top of finished membrane roof so four fastener holes line up with centers of six ferrules. Holes in base plate will lock into ferrules when ferrules are positioned properly.

5. Fasten base plate to substructure using fasteners that are appropriate for decking type and insulation thickness, making certain base plate cannot shift.

6. Consult with an engineer, with Alpine SnowGuards or with a fastener company to determine proper fasteners for attaching base plate to substructure.

### Membrane Flashing of Base Plate

1. Use an acceptable piece and size of flashing material to cover base plate in a method accepted by 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 2 threaded studs of base plate.

3. Before installing flashing material, apply a generous amount of an acceptable sealer around 2 threaded studs.

4. Apply flashing material over base plate and seal perimeter of flashing to deck sheet.

5. Threaded studs are now only part of base plate exposed.

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**Note:** Due to sealer applied around 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. Place bracket over threaded studs. Bracket will be centered on base plate when installed properly.
2. Place one bonded washer over each stud and press them all the way down against bracket.
3. Thread one nut down each stud and tighten. The nut should be tightened to approximately 15 inch-lbs, until EPDM on bonded washer is compressed. Use fig. 1 as a visual guide for correct torque.
4. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.

**fig. 1.**



### SNOW GUARD LAYOUT FOR PIPE-STYLE 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.
- First row of snow guards are installed above outermost wall or support of the building.

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