



## PP215R Snow Guard Installation Instructions

### ROOF TYPES

New / Existing Membrane with insulation immediately below roof surface.

### INSTALLATION

#### Base Plate with Ferrule Installation

1. Place base plate on top of finished roof and mark locations of 6 fastener holes (3 on left of baseplate and 3 on right).

*Note: threaded studs on base plate are aligned parallel to roof slope with three fastener holes on up-slope of base plate.*

2. Remove base plate and at 6 marked hole locations, bore 6 one-inch holes through finished roof and through insulation until substructure is reached.
3. Measure depth of each hole and cut ferrules (1" O.D. aluminum tubing) to rest on substructure and to be flush with finished roof surface when inserted into holes.
4. Drop ferrules into place. Ferrules resting on substructure will prevent insulation from compressing when base plate is tightened into place.

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

5. Place base plate on top of finished membrane roof so that 7 fastener holes line up with centers of 7 ferrules. The holes in base plate will lock into ferrules when ferrules are positioned properly.
6. Fasten base plate to substructure using appropriate fasteners for type of decking and thickness of insulation. Make certain that base plate cannot shift.
7. Consult with an engineer, snow guard manufacturer or fastener company to determine fastener required for attaching base plate to substructure.



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### Membrane Flashing Installation

1. Use an acceptable piece and size of membrane flashing material to cover base plate in a method acceptable by roofing material manufacturer. This is commonly referred to as a Flashing Patch. Flashing patch size will be minimum of 12" x 12"; each membrane manufacturer has specific requirements.
2. Cut two small holes in flashing to fit tightly over threaded studs.
3. Before installing flashing apply a generous amount of acceptable sealant around threaded studs.
4. Apply flashing over base plate and seal perimeter of flashing to membrane deck sheet, following best practice methods for your roofing material.
5. Threaded studs are now only part of base plate exposed.

**Note:** Due to sealant applied around studs there may be bleed out at this opening. When bracket is installed and tightened this bleed out will help to create a water tight compression fitting.

6. Once base plate and flashing are installed, move on to installation of snow guard bracket.

### Bracket Installation

Aluminum Bracket (reference Assembly Sheet – PP225-AL-UPKIT)

1. Empty contents of bag onto work surface and reference PP225-AL-UPKIT assembly drawing for part codes and descriptions.
2. Insert SS Hex Bolt .5-13x2.25 through back hole of Base for 225 AL Upkit, PP225 AL-Connector, Spacer, and 2nd back hole of Base for 225 AL Upkit.
3. Apply thread lock and tighten SS Hex Nut to SS Hex Bolt.
4. Line up AL 225 Upright for Upkit with appropriate hole for angle of roof with PP225 AL-Connector and insert SS Hex Bolt .5-13x1.75 through both AL 225 Upright and PP225 AL-Connector.
5. Apply thread lock and tighten SS Hex Nut to SS Hex Bolt.
6. Open assembly to expose holes in Base for 225 AL Upkit.  
Place bracket over threaded studs on previously installed baseplate.
7. Place one SS Neo Washer over each stud and press them down against bracket.
8. Tighten SS Flange Nut over each stud and tighten to 15 inch-pounds.
9. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.



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### Brass Bracket (reference Assembly Sheet – PP225-BR-UPKIT)

1. Empty contents of bag onto work surface and reference PP225-BR-UPKIT assembly drawing for part codes and descriptions.
2. Insert BR Hex Bolt .5-13x2.25 through single back hole of Base for 225 BR Upkit, and then through (in order) one BR  $\frac{1}{4}$ " Spacer, one BR 1/8" spacer, PP225 Connector Cast BR one BR  $\frac{1}{4}$ " Spacer, one BR 1/8" spacer and out through other side of Base for 225 BR Upkit.
3. Apply thread lock and tighten BR Hex Nut to BR Hex Bolt .5-13x2.25 to 45 inch-pounds.
4. Insert BR Hex Bolt .5-13x1.75 through one side of BR225 Upright for Upkit, and then through (in order) one BR  $\frac{1}{4}$ " Spacer, appropriate hole for angle of roof in PP225 Connector Cast BR, one BR  $\frac{1}{4}$ " Spacer and out through other side of BR225 Upright for Upkit.
5. Apply thread lock and tighten BR Hex Nut to BR Hex Bolt .5-13x1.75 to 45 inch-pounds.
6. Open assembly to expose holes in Base for 225 BR Upkit. Place bracket over threaded studs on previously installed base plate.
7. Place one SS Neo Washer over each stud and press them down against bracket.
8. Tighten one SS Flange Nut over each stud and tighten to 15 inch-pounds.
9. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.

### SNOW GUARD LAYOUT FOR PIPE STYLE BRACKETS

- Contact Alpine SnowGuards for detailed layout.
- Do not install runs of snow retention bar more than 100 feet long without a break to allow for thermal expansion.
- First row of snow guards are installed above outer most wall or support of the building.

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07 72 53 Snow Guards