



# ALPINE SNOWGUARDS

A Division of Vermont Slate & Copper Services, Inc.

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## Assembly Instructions for Membrane Roof Style Snowguards #215

- I. Base Plate (The base plate is the flat piece with the two threaded studs.)
  - A. A Continuous block is required underneath the membranous roof surface to attach the base plate. This base flange is 8" long. , Mounting this system over insulation alone may crush the insulation and cause the roof to leak.
  - B. Place the base plate on top of the finished membrane roof.
  - C. Before fastening base plate through membrane to mounting block below, apply a generous amount of acceptable sealer under the flange.
  - D. Consult with an engineer or fastener company to determine the fastener required to attach the base plate to the wood block. Fasteners must exceed 2000 pounds sheer combined.
- II. Membranous Flashing of Base Plate
  - A. Use an acceptable piece of flashing material 18" square.
  - B. Cut two small holes in membrane flashing to fit tightly over threaded studs.
  - C. Before installing flashing apply a generous amount of acceptable sealer around threaded rods.
  - D. Apply flashing over base plate using proper mastics and installation techniques so as to create a water tight patch.
  - E. 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 base block is installed and tightened this bleed out will help to create a water tight compression fitting.
- III. Installation of snowguard block
  - A. Install base block over threaded studs.
  - B. Place one gasketed washer over each stud.
  - C. Place locking nut over gasketed washer and tighten.
  - D. Insert tubing through the holes in the uprights.
- IV. Locking Collars, End Caps, and Ice Flags (optional)
  - A. Locking collars ( #65 ) should be placed over each end of each line of tubing. Center the tubing on the snowguards and tighten the set screw on the collar until it no longer slips.
  - B. End caps (#56) are installed by pressing the cap into the end of the pipe.
  - C. Ice flags ( #95 ), if used, should be placed over the top tube so that the long leg rests against the uphill side of both tubes. Use the carriage bolt and nut to hold the ice flag in position.

### Snowguard Layout for Pipe Style Brackets

- \* Contact the manufacturer for detailed layout.
- \* Horizontal spacing between brackets should be 48" maximum. This may have to be decreased due to variable conditions.
- \* Do not install runs than 100 feet long without a break to allow for thermal expansion.
- \* First row of snowguards is installed above outer most wall or support of the building.
- \* Tubing is 1" O.D. aluminum.
- \* Brackets are made of aluminum and are available in other metals.
- \* One, two and three pipe systems are available.

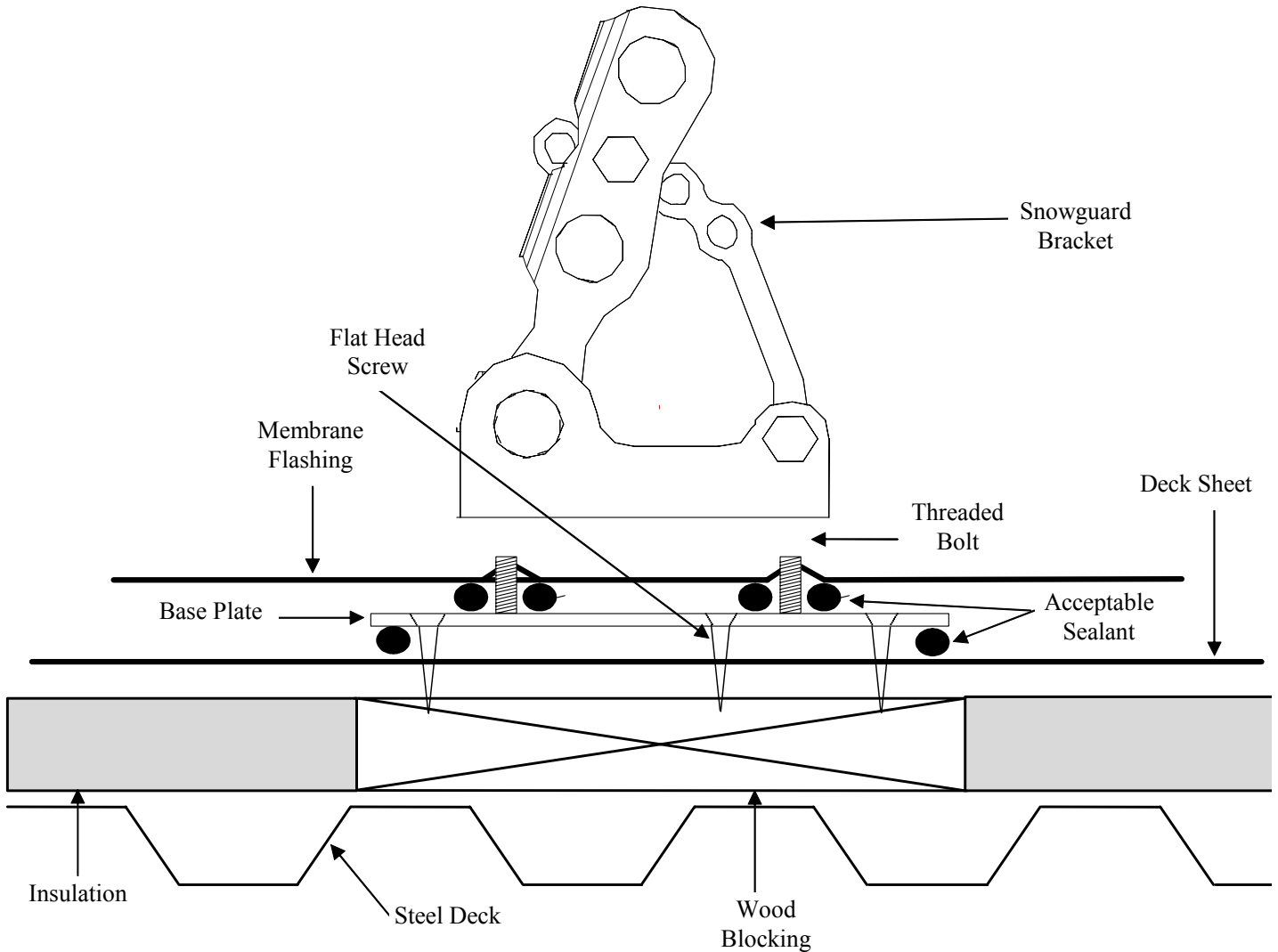
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## #215 Membranous Roof Snowguard Installation Detail

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