



ALPINE SNOWGUARDS

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Assembly Instructions for #235LS Pipe Style Snowguards

I. For **bolt down** style brackets on tile roofs.

- A. Brackets should be mounted onto the plate (using the hex bolts) before the plate has been screwed or bolted to the roof deck.
- B. 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.
- C. Plates should be securely bolted or screwed to the roof in place of a tile.
- D. Insert tubing through the holes in the uprights.

II. 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.

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