

## THE F-RAIL™, E-RAIL™ AND S-RAIL™ SNOW RETENTION SYSTEMS

Berger, a leader in the snow guard industry since 1874, has designed three unique and highly functional snow retention systems, the F-Rail™, E-Rail™ and S-Rail™. These non-penetrating, cast aluminum castings with steel rails are designed for standing seam roofs and are easy to install. What makes these systems so unique is that the lowest rail can be positioned below the standing seam of the roof, reducing the possibility of dangerous ice slides. What makes these products so functional is their receiver pockets through which each rail is inserted, making installation easier and more efficient than the other products currently on the market.



### F-Rail™ Snow Retention System

- Accommodates up to 4 Rails of Protection
- Customized Rail Tubing to Suit Your Climatic Requirements
- The Only Rail Style Snow Fence Available that Functions BELOW the Standing Seams on Metal Roofs – Helping to Control the Possibility of Dangerous Ice Slides
- Easy to Retrofit Existing Roofs
- Available in Mill Finished Aluminum, Black Primer or Painted to Match the Roof

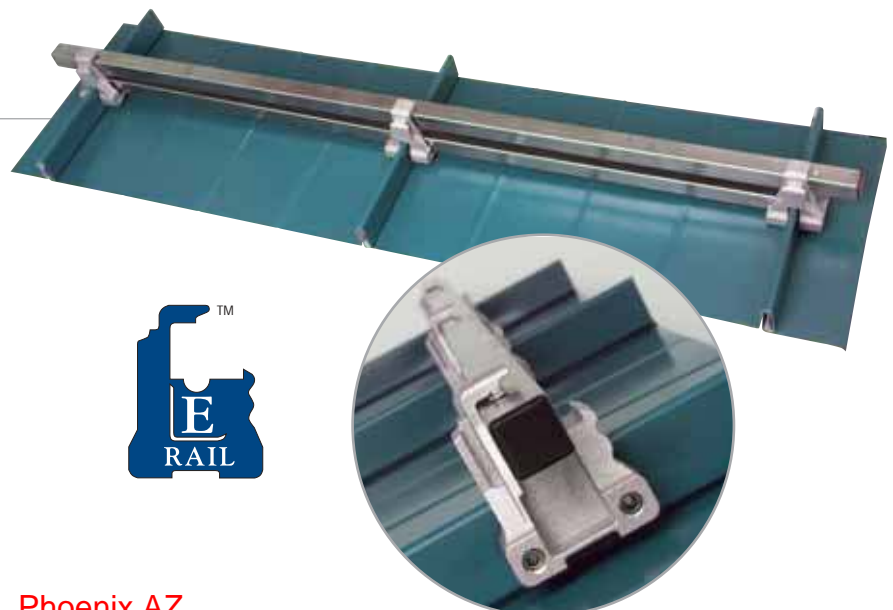
U. S. Patent 6688047



### E-Rail™ Snow Retention System

- Dual Rail, Low Profile Snow Retention System
- Stronger and Lighter System that offers between the Seams Protection on Metal Roofs - Helping to Control the Possibility of Dangerous Ice Slides
- Available in Mill Finished Aluminum, Black Primer or Painted to Match the Roof
- Receptor Slot for Custom Ornamental Attachment

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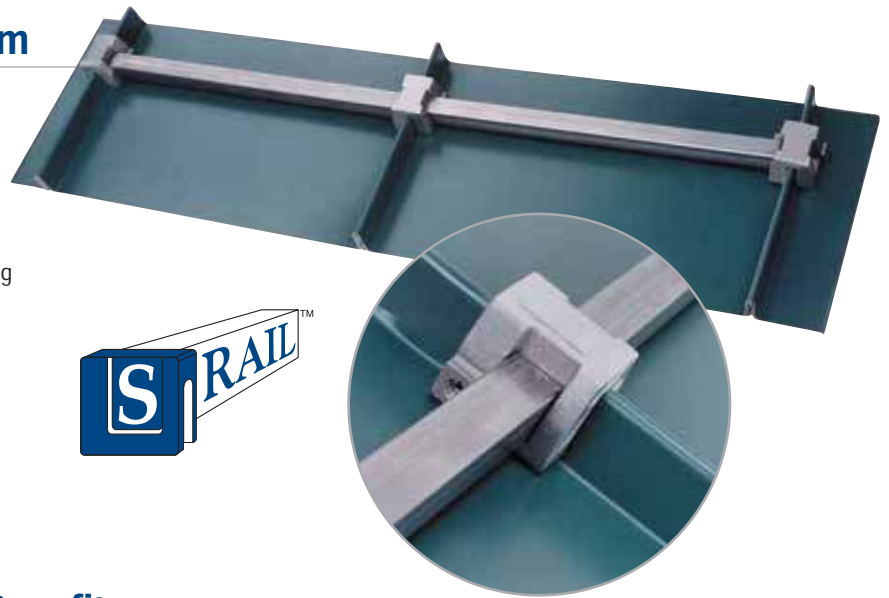


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## S-Rail™ Snow Retention System

- Single Rail, Low Profile Snow Retention System
- Functions BELOW the Standing Seams on Metal Roofs - Helping to Control the Possibility of Dangerous Ice Slides
- Economical Snow Rail that's Easy to Retrofit to Existing Roofs
- Available in Mill Finished Aluminum, Black Primer or Painted to Match the Roof

U. S. Patent 6688047



## F-Rail™, E-Rail™ and S-Rail™ Benefits

- Reduces the Potential of a Mass Quantity of Snow and Ice from Avalanching all at once off the Roof
- Reduces the Potential for Injury to Pedestrians
- Reduces the Potential for Damage to Vehicles, Landscaping, Gutters and Property Below
- Reduces the Chance of Costly Insurance Claims
- Technical Support and Superior Customer Service
- Call for Custom Layout Design

## F-Rail™, E-Rail™ and S-Rail™ Installation Instructions

### F-Rail and E-Rail

1. Install castings in accordance with Berger roof layout provided. Measure correct distance and snap a straight line to mark seam for casting position.
2. The casting is furnished with factory installed oval and cup tipped set screws which should be tightened in place with a hex-bit socket. Turn screws equally to center casting on seam.
3. How tightly to torque the set screws will vary depending on the type and gauge of the metal roofing. The recommended method for determining proper torque is to install one first. After tightening the set screws, loosen and remove the casting, and inspect the indentations created in the metal to see that proper spherical indentation was obtained. **Caution: Overtightening can cause damage to casting resulting in failure. Maximum torque = 28 ft-lbs.**
4. After castings are installed, fit the square tubing rails into the receiver pockets. For the rail in the lowest position below the standing seam, rail must be cut to the width of the metal roof panel seams. A dab of SB-190 adhesive sealant may be used in the receiver pockets to ensure a snug fit.
5. For the upper rails, install the full length of the rail into the receiver pockets and place a black plastic end cap into each side of the rail. The rails can be butted right up against each other, but they do not connect. Butt termination should be at center line of guard.
6. After installing any upper rail, drill in one tech screw on each end of the top section of rail. The tech screw should be on the outside of the furthest castings on the rail tubing to help prevent the section of rail from sliding laterally.

### S-Rail

Follow instructions from #1-4 listed above.

**NOTE:** For Guide Specifications, See Our Technical Specification CD-Rom or Our Website - [www.bergerbuildingproducts.com](http://www.bergerbuildingproducts.com)