



BERGER E-Rail™ Snow Retention System

Installation Instructions

The **E-Rail Snow Retention System's** primary design is to accommodate standing seam metal roofs. It consists of the following parts: **E-Castings**, Tubing, End Caps and #8 Self-Tapping Screws.

The **E-Casting** is designed to accommodate a seam of up to 0.516" in thickness and at least 1.5" high

Finishes: **E-Castings** are available in Mill Finished Aluminum, Black Primed, and Custom Color. The Tubing is available in Stainless Steel or Custom Color.

Installation: Install castings in accordance with BERGER roof layout provided. Measure correct distance and snap a straight line to mark seam for casting position. **E-Castings** are furnished with a factory-installed oval and dish tipped setscrew combination, which should be tightened in place with a 7/32" hex-bit socket. Torque will vary depending on the type and gauge of the metal roofing; the recommended method for determining proper torque is to install one first, with the setscrews on the uphill side. After tightening the setscrews, loosen and remove the unit, and inspect the indentations created in the metal to see that proper spherical indentation was obtained. **Over tightening can cause damage to snow guard resulting in failure. Maximum torque 28 ft lbs**



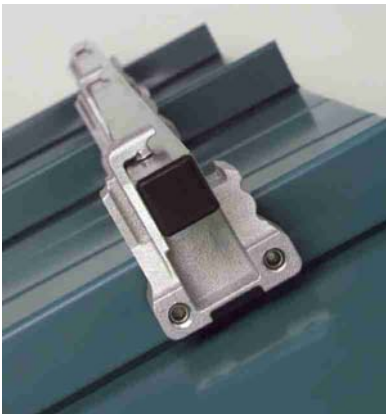
After Castings are installed, fit the square tubing rails into the receiver pockets. For the rail in the lowest position of the standing seam, rail must be cut to the width of the metal roof panel seams. A dab of Surebond Everseal (SB-190), or Surebond Everflex (SB-1800)* may be used in the receiver pockets to ensure a snug fit.

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 rail. The rails can be butted up against each other, but do not connect. Butt

termination should be at the centerline of guard.

After installing the upper rail, pre-drill a hole to accommodate a #8 x 0.5" self-tapping screw on each end of the top section of rail. This screw should be on the outside of the furthest castings on the rail tubing to help prevent the section of rail from sliding horizontally.

Snow guard Placement will vary from region to region and will be influenced by roof pitch, as well as the lengths of runs and spacing between seams. Local custom may not be the best guide as to placement, and additional recommendations can be found in SMACNA and other published industry standards. Ultimately, placement should be determined by a qualified design professional.



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*Surebond Everseal and Everflex are products of Surebond, Inc.

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