

SnowGuardWarehouse.com

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1.0 PRODUCT NAME

BERGER E-Casting for Snow Rail System

2.0 MANUFACTURER

Berger Building Products, Inc
805 Pennsylvania Blvd.
Feasterville, PA 19053
info@bergerbros.com
(215) 355-1200
(800) 523-8852
(215) 355-7738 (FAX)

3.0 DESCRIPTION

Basic Use: BERGER E-Casting is a device designed to be used with tubing to create a Rail System for the prevention of damage caused by the sliding of snow and ice on standing seam metal roofs.

Limitation: BERGER E-Casting is designed to accommodate a seam of up to 0.516" thick and at least 1.5" high.

Finish Styles: BERGER E-Castings are manufactured in three finishes: Mill Finish, Primer Finish, and Custom Color Finish. The mill-finished is an unpainted aluminum casting. The primed is E Coated using a Cathodic Electro Deposition process. The CED Epoxy primer has a black color and extended shelf life that can be top coated by contractors with a wet or dry paint system. This primer must be top coated prior to installation. BERGER will also provide E-Castings in a custom color finish. Imron® polyurethane enamel paint is used for the custom color finish and can be matched to virtually any non-metallic paint finish.

Tubing: tubing for the E-Rail is available in Stainless (TBSS20) and Custom Color (TBCR24P). TBSS20 is stainless steel square tubing 1"x 1" x 20' 16 GA, ASTM-A-554, type 304. Ultimate tensile strength is 74,000 PSI and yield strength is 29,000 PSI. TBCR24P is hot rolled square tubing, 1"x 1" x 24' 16 GA, ASTM-A-516. Ultimate tensile strength is 60,000 PSI and yield strength is 40,000 PSI

4.0 INSTALLATION

Preparation

Determining Proper Torque

Torque will vary depending on the type and gauge of the metal roof. The recommended method for determining proper torque is to install one unit first. After tightening the stainless steel set screws, loosen and remove the unit, inspecting the indentations created in the seam to see that the proper compression was obtained.

Application

Snow Guard Placement

Snow Rail placement will vary from region to region. Roof pitch, as well as lengths of runs and seam spacing influence the layout. Local custom may not be the best guide as to placement. Additional recommendations can be found in SMACNA and other industry standards. BERGER can provide free custom layout design. Ultimately, placement should be determined by a qualified design professional.

5.0 AVAILABILITY, COST & TECHNICAL SERVICE

BERGER E-Rail is in stock and ready for immediate shipment from BERGER. Call (800) 523-8852 for cost and additional information or technical assistance.

6.0 WARRANTY

Berger Building Products, Inc (BBPI) warrants that the products it manufactures shall be free from material defects. Should any of the products prove defective, the obligation of BBPI under this warranty shall be limited to replacement of the defective product or at our option the cost of the product originally shipped by Berger. This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose. There are no warranties, which extend beyond the description on the face hereof. BBPI in no event, whether claim is based on warranties, contract negligence or otherwise, is liable for incidental or consequential damages. Berger Building Products, Inc (BBPI) will not be responsible for misapplication or modification of product, incorrect material or defects that were obvious at time of installation. Any consequential damage, schedule delays, additional labor, and or equipment rental costs will not be BBPI responsibility. Any BBPI product warranty claim is limited solely to Berger Building Products, Inc.

Product Properties	BERGER E-Casting
Material	ALMAG 35 535 Alloy ASTM B26 QQ-A-601E 40,000 PSI Ultimate Tensile Strength 20,000 PSI Yield Strength
Color / Finish	Mill Finish (ECSTS F) Primer Finish (ECTSFE) Custom Color (ECSTSFP)
Weight per piece	0.56 lbs.- Aluminum

*Imron® is a registered trademark of Dupont





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 0.50" 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.



Berger Building Products, Inc (BBPI) warrants that the products it manufactures shall be free from material defects. Should any of the products prove defective, the obligation of BBPI under this warranty shall be limited to replacement of the defective product or at our option the cost of the product originally shipped by Berger. This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose. There are no warranties, which extend beyond the description on the face hereof. BBPI in no event, whether claim is based on warranties, contract negligence or otherwise, is liable for incidental or consequential damages. Berger Building Products, Inc (BBPI) will not be responsible for misapplication or modification of product, incorrect material or defects that were obvious at time of installation. Any consequential damage, schedule delays, additional labor, and or equipment rental costs will not be BBPI responsibility. Any BBPI product warranty claim is limited solely to Berger Building Products, Inc.

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

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