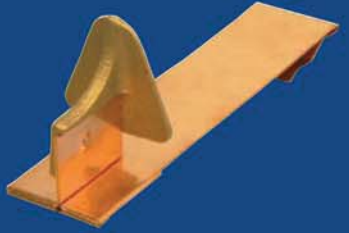


Mullane

SNOW RETENTION PRODUCTS

*For Slate, Tile, Shingle,
Shake & Metal
Roof Surfaces*



SnowGuardWarehouse.com - Ph: 814-786-9085

MULLANE SNOW RETENTION PRODUCTS

FITRITE PIPE SNOW GUARD SERIES



Model #FR124

The Model #FR124 Mini Protector Snow Fence Bracket is cast in malleable iron for durability. The castings are mounted on a solid galvanized steel plate, 2" x 12", with pre drilled holes for easy installation. The bracket assembly is set up to accommodate two 1/2" galvanized pipes. Brackets are adjustable to the roof pitch. The Model #FR124 should be used only where low to moderate snowloads are anticipated and can be mounted to most any roof surface.



Model #FR131

The Model #FR131 Snow Fence Bracket is cast from malleable iron and zinc plated for durability. The castings have been carefully engineered to assure maximum strength at the points of the greatest stress when under load. The Model #FR131 accommodates 3 galvanized iron, bronze, brass or stainless steel pipes. It is for use on large slate and shingle roofs with rafters up to 25 ft. long. The brackets are adjustable to various roof pitches. The base plate is 11 gauge galvanized steel, sized to the slate dimension, and predrilled and countersunk for fasteners. Bolts are Grade 5 zinc plated steel.



Model #FR132

The Model #FR132 Snow Fence Bracket is cast from solid bronze for durability. The castings have been carefully engineered to assure maximum strength at the points of the greatest stress when under load. The Model #FR132 accommodates 3 brass, bronze or stainless steel pipes. It is for use on small slate roofs with rafters up to 18 ft. long. The brackets are adjustable to various roof pitches. The base plate is 1/8" commercial bronze or brass plate, sized to the slate dimension, and predrilled and countersunk for fasteners. Bolts are solid brass.

BRONZE GUARD™ SERIES

BRONZE GUARD™ offers a complete line of high quality snow retention products for all steep roof applications. All BRONZE GUARD™ products are cast in pure tin bronze, using only virgin metals to assure the highest quality alloy. The castings are produced by old-world craftsmen using state of the art equipment to assure that each casting is of consistent quality. The final assembly is done by hand, using only solid copper rivets, so that each finished product is of uniform quality.



Model #100

A traditional spike style snow guard, from a design first patented in 1899. The Model #100S is historically accurate for period restorations, but is just as appropriate for new construction or retrofit application on existing slate roofs. Because of its low profile, this model is more appropriate for residential usage. The Model #100S is for application on all slate, shake, and shingle roofs, and is designed to fit between adjacent pieces of roof material, so that only the casting is visible above the roof surface. The sheet metal installation flange and the vertical casting support are all 24 oz. cold rolled copper. For solder application on copper roofing, specify Model #100M. Model #100AS has 1/4" offset for asphalt shingle roofs. Model #100NA has a standard 3/8" offset for slate nail applications. Model #100RH has a standard 3/8" offset for slate retro hook applications. Model #100SM is soldered for surface mount applications. Model #100 is available with an optional lead coated copper and terne coated steel.



Model #200

This spike style snow guard is fabricated from the same sheet metal components as the #100S, but the #200 casting is 30% larger than the #100. Both products are equally strong and effective in their capacity to hold snow on the roof, but the Model #200S is more appropriate to larger scale buildings, or where the roof material is thicker than usual, such as tile roofing. The Model #200T is a special adaptation of the Model #200S, which has a square hook, sized to the thickness of the tile, at the distal end of the snow guard assembly for easy retrofit or new installation on tile roofs. The #200T can also be prefabricated for nail application on new tile roofing, when the snow guards are installed as the roof is being laid up. For solder application on copper roofs, specify Model #200M. Model #200AS has 1/4" offset for asphalt shingle roofs. Model #200NA has a standard 3/8" offset for slate nail applications. Model #200RH has a standard 3/8" offset for slate retro hook applications. Model #200SM is soldered for surface mount applications.



Model #300

A solid bronze pad style snow guard for all steep roof applications. The half round Model #300 casting is attached to a 24 oz. copper installation base flange by four solid copper rivets for extreme durability and snow load bearing capacity. The solid bronze casting eliminates the corrosion problem caused by condensation which is formed inside of closed, pressed copper snow guards. The installation flange can be easily fabricated to any length for any roof application, and is also available with our Retro-Hook for easy installation on existing roofs. For solder application on copper roofs, specify Model #300M.

MULLANE SNOW RETENTION PRODUCTS



Model #400

This "Classic" BRONZE GUARD™ series features large (approximately 4" x 4") decorative bronze castings in Eagle, Oak Leaf, or Fleur-De-Lis designs. The castings are mounted on solid 1" x 1/8" copper bar stock with solid brass bolts. The installation bar is predrilled for easy installation. While they are decorative elements, they are also extremely durable and are capable of holding extreme loads. They are typically installed in two rows along the eaves with subsequent rows of low profile guards to supplement the necessary snow holding design load. The Classics are available in mill finish, or with oxide or patina finishes optional.

Model #500

The Model #500 snow fence bracket is cast from solid bronze for lifetime durability. The castings have been carefully engineered to assure maximum strength at the points of greatest stress when under load. Double back brace brackets are standard, and give redundant protection against casting failure when under load. Holes for rails are 1.125" to accommodate 1.05" (od) brass pipe. The brackets are available in three angles: 90°, 67.5°, and 45°. The base plate is 1/8" 220 bronze and is fabricated to any specified size. The Model #500 is typically installed along the perimeter of slate roofs to prevent the sudden and unexpected sliding of snow.

SNOW BOSS™ MODEL #600 SERIES

SNOW BOSS™ Models #630, #640 and #690 are cast in Almag 35, an aluminum alloy which contains magnesium for durability under the most extreme conditions. Almag 35 castings have superior strength and ductility, test excellent on resistance to corrosion, and respond well to anodizing and paint. The castings have been engineered to have the most effective base to snow block proportions, so that when properly installed, give the greatest resistance to the forces exerted on the face of the snow block. The forces exerted on the face of the snow block are a combination of peel and shear, so that a well proportioned snow guard will resist rotating moment forces. The advantages of cast snow guards are that they are durable, and can't be crushed by rooftop snow loads or maintenance workers. They are solid, therefore impervious to the UV degradation of the adhesives, and will not become brittle with age. SNOW BOSS™ Model #650 is constructed with durable UV resistant polycarbonate.



Model #630

SNOW BOSS™ #630 are solid cast aluminum snow guards and are best used for curtain wall systems, window wells or cornice shelves. Typical installation is by means of high strength adhesives that develop superior peel and shear bonding strength on modern metal roofs coated with plastic resin paints such as Kynar®. These aluminum guards are available mill finished, or custom color matched using Dupont® Imron enamels.



Model #640

SNOW BOSS™ #640 are "traditional shaped", solid cast aluminum snow guards for the mid-panel application on all standing, batten, and flat seam (non-copper) metal roofs. Typical installation is by means of high strength adhesives that develop superior peel and shear bonding strength on modern metal roofs coated with plastic resin paints such as Kynar®. These aluminum guards are available mill finished, or custom color matched using Dupont® Imron enamels.



Model #690

SNOW BOSS™ #690 are a decorative, spoked, half-round designed solid cast aluminum snow guards. They are well suited for the mid-panel application on all standing, batten, and flat seam (non-copper) metal roofs. Typical installation is by means of high strength adhesives that develop superior peel and shear bonding strength on modern metal roofs coated with plastic resin paints such as Kynar®. These aluminum guards are available mill finished, or custom color matched using Dupont® Imron enamels.



Model #650

SNOW BOSS™ #650 Series is constructed with durable UV resistant polycarbonate and is compatible with all non-copper metal roof systems. The Model #650 includes a new patent pending base design which is the latest technological advance in adhesive mounted snow guard systems. This cross hatch design strengthens adhesive grip by increasing surface area and texture, and provides for faster solvent escape, and adhesive curing. The series of evenly spaced holes in the base allow the solvents to dissipate quickly, and become "glue rivets" when the adhesive keys in the holes for a more secure application. Custom color match is available using proprietary resins for a solid, non-fading durability.

MULLANE SNOW RETENTION INSTALLATION

FITRITE & MODEL #500 PIPE SNOW GUARD INSTALLATION

Install snow fence bracket parallel to the eave, spacing the brackets from 24" to no more than 48" apart, depending upon the pitch of the roof and anticipated snow load. Install brackets approximately 24" to 36" from the roof edge. Recommended installation method is to use through bolts, with a backer plate on the underside of the sheathing. Copper water pipe is NOT recommended. In high snow load, and a rafter of over 25", a second row of fence is recommended. As an alternative, or in areas where ice slides are possible, supplement the fence system with an array of model #100s or #200s snow guards. (Model #FR124: Install snow fence bracket parallel to, and approximately 24" to 36" from the eaves. The bracket should be spaced from 18" to no more than 36" apart, depending upon the pitch of the roof and anticipated snow load.)

BRONZE GUARD™ SNOW GUARD INSTALLATION

INSTALLATION for Models #100, #200, #300, and #400: Snow Guards are installed in a series of rows placed parallel to the eave. Guards should be spaced no more than 24" apart in the horizontal rows. The number of rows and the vertical spacing between rows are determined by the pitch and length of the rafter. The most effective placement is an even spacing of the array over the lower 2/3 of the roof surface. Other variables such as upper roofs, dormers and valleys should be considered when determining a layout.

SNOW BOSS™ SNOW GUARD INSTALLATION

ADHESIVE ATTACHMENT: All surface areas that are to come in contact with either SB-190 or SB-1800 are to be cleaned with isopropyl alcohol and allowed to dry. Adhesive or sealant should be applied so as to completely cover the underside of the device before it is positioned, and sufficient compression should be created to squeeze adhesive out around its perimeter and a bead of the same material should be applied around the base to create a waterproof joint free of gaps and air pockets.

MECHANICAL ATTACHMENT: The Snow Guard needs to be fastened into a structural member, rafter or purlin at least 1-1/4" through each screw point. Fastener selection should be governed by substrate and anticipated loads; stainless steel or corrosion resistant fasteners should be insisted upon.

"SCREW AND GLUE" ATTACHMENT: Each Snow Guard may also be installed using a combination of fasteners (screw) and adhesive (glue) or a suitable high-quality non-silicone sealant.

Berger Building Products, Inc (BBPI) snow guards are devices that are attached to the roof structure in order to provide uniform retention and control the snow from avalanching in large sheets. The snow guards need to be applied in sufficient quantity according to a prescribed pattern in order to be effective. Snow Guards are intended to reduce snow movement and provide for a controlled melt and breakdown of the snow mass into smaller sections. Snow guard placement will vary from region to region and will be influenced by roof pitch, the lengths of roof runs and roof features. Local installation customs may not be the best guide for placement. Additional information can be found in Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) architectural sheet metal manual. Ultimately a qualified professional should determine placement. **Snow guards should never be placed beyond the bearing wall on an extended roof section. This can result in ice damming and cause structural damage.**

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.

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