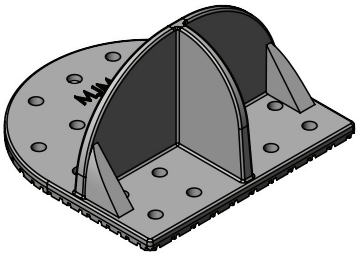
BERGER®

QUALITY BUILDING PRODUCTS SINCE 1874

Model #650 Snow Guard

Polycarbonate Plastic for Metal Roofs

Installation Instructions:



Mullane 650 Clear Snow Guards are manufactured in a premium, high clarity, polycarbonate plastic. This U. V. stabilized model, 650C, provides maximum protection to fit an economical budget. They are well suited for mechanical attachment or fully adhered with adhesive

They are particularly effective in retaining snow and ice on metal roofs where there are no suitable seams to which a seam mounted device can be fastened, including batten and lap seam panels.

Not for use on 9" or 12" ribbed roofs.

The technical information is for informational purposes only and is not intended to replace the manufacturer's recommendations for a particular project. We will provide layouts upon receipt of roof plan with elevations. Manufacturer is not responsible for improper installation, or installation in insufficient quantities.

Every roof is not the same! Call today for a custom layout.

Adhesive Installation

Berger Building Products, Inc. recommends Surebond Everseal (SB-190) adhesive (or equivalent) when using adhesive to install the 650C. This product has been proven in the industry for this particular use. Strict compliance with the manufacturer's recommendations regarding environment conditions and surface preparation will assure optimum performance. SB-190 requires 28 days (672 consecutive hours) of 50 degrees Fahrenheit, or warmer temperatures to fully cure to 2000psi shear tensile strength. Do not use adhesive if rain is forecast within 24 hours.

All surface areas that are to come in contact with sealant are to be wiped 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. 8 to 10 snow guards can be adhered with one 10.3 ounce tube of sealant. It should be noted that under certain conditions, temporary measures may need to be employed to hold the snow guard in place until initial set of adhesive has taken place.

Mechanical Attachment:

The 650C is provided with pre-drilled holes to accommodate a #10 Type A self-tapping fastener, (flat or oval head) with a neoprene washer for a watertight seal. The snow guard needs to be fastened into a structural member, rafter or purlin at least 1.5" 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:

The 650C may also be installed using a combination of fasteners (screw) and adhesive (glue) or a suitable high quality silicone sealant. Berger Building Products, Inc. does not warrant adhesive failure. The adhesives are offered for the convenience of the user who assumes full responsibility for its use. These adhesives are used throughout the industry for adhering snow guards with successful results utilizing the directions of the adhesive manufacturer. Adhesive failure does not constitute Berger Building Products, Inc. products defect and is not the responsibility of Berger Building Products, Inc..

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The Mullane #650 Snow Guard Layout for Metal Roofs:

Every snow guard will not fit every application. It is important to know the type, style and profile of your metal roof prior to selecting a snow guard.

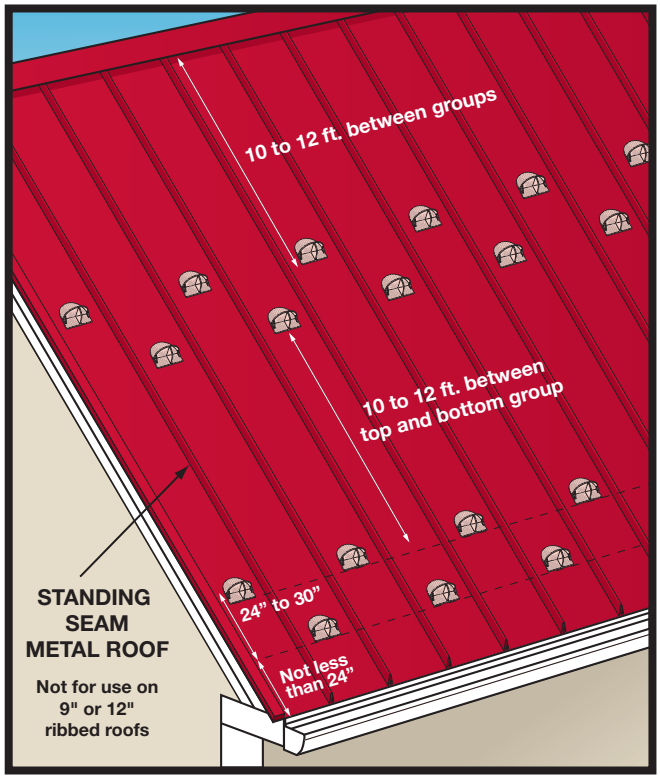
Mechanical Fastener Attachment:

1. The snow guard needs to be fastened into a structural member, rafter or purlin at least 1.5" through each screw point.
2. The #650 is provided with pre-drilled holes to accommodate #10 -Type A self-tapping fasteners, (flat or oval head) with a neoprene washer for a watertight seal.
3. Fastener selection should be governed by substrate and anticipated loads; stainless steel or corrosion resistant fasteners should be insisted upon.
4. The number of rows will be dictated by size of the roof and climate of the location.
5. Improperly insulated roofs will require more snow guards.
6. Every roof is different, call today for your free layout recommendation.
7. 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.

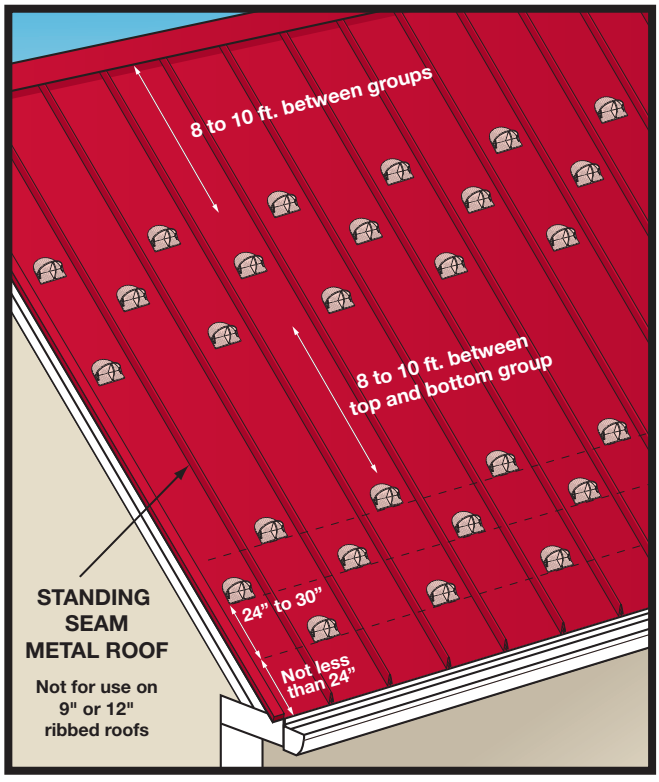
Adhesive Only:

1. All surface areas that are to come in contact with sealant are to be wiped with isopropyl alcohol and allowed to dry.
2. Adhesive or sealant should be applied so as to completely cover the underside of the device before it is positioned.
3. 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.
4. It should be noted that under certain conditions, temporary measures may need to be employed to hold the snow guard in place until initial set of adhesive has taken place.
5. One 10.3 oz. tube of sealant will adhere 8 to 10 #650 snow guards.
6. Improperly insulated roofs will require more snow guards.

These patterns shown are typical for a rafter run of no more than 25 feet in an area with a ground snow load no more than 30 psf. If your project exceeds this criteria, contact Berger for a free consultation.



Mechanical Fastener Layout



Adhesive Layout

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General Information:

Snow guards are devices that are attached to the roof structure in order to uniformly retain and hold snow in place on the roof area. 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 prevent snow movement and provide for the 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.

Berger Building Products, Inc. recommends that a qualified roofing contractor be employed to install these products. Roofing professionals have the proper equipment, knowledge and ability to complete the task in a safe and satisfactory manner. The applicator is responsible for compliance with regulations governing local building ordinances and safety regulations.

Safety Hazards

- Roofing can be hazardous! Serious injury or fatality can result from falls or electrocution from contacting overhead wires. Observe ladder safety rules for load, positioning and security.
- Please make sure all roof surfaces are dry and clean before working. Avoid working in excessive heat, high wind or when there is a threat of lightning. Never work alone.
- Do not allow material to be unsecured on the roof. Falling objects are dangerous.
- Prior to application, Berger Building Products, Inc. requires that the installer evaluate all products in order to determine fitness for use.

Do not use Competing/Dissimilar Metals with each other!

Galvanic corrosion will occur when dissimilar metals are in contact in the presence of an electrolyte. Water in the form of condensation, rain or snow is an electrolyte. Water that flows over copper becomes electronegative and will cause corrosion of aluminum or steel. Copper, brass or stainless steel fasteners or nails must be used with copper or brass applications. Make sure rivets are solid copper; do not use copper plated steel rivets in copper or brass assembly. Do not use aluminum or galvanized nails to secure any copper products. Corrosion will be more rapid in the presence of salts such as ocean coastal areas or chlorinated water, acid rain, and polluted industrial atmospheres. Accelerated corrosion will occur when a larger area of an electronegative (cathode/protected) element contacts a small electropositive (anodic/corroded) element.

Warranty/Disclaimer

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.

Berger Building Products, Inc. (BBPI) reserves the right to change design and specification of our products without prior notification or alteration of literature. Materials may be revised to improve strength and corrosion properties and incorporated as a running change without obsolescence.

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