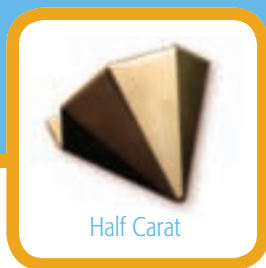




SNOW SHOULD ONLY FALL ONCE™
SNOW SHOULD ONLY FALL ONCE™



SNO  **GEM™**
the ultimate snow guard

888-SNO-GEMS (766-4367) www.snogem.com



- ◆ Easy-to-install
- ◆ Durable
- ◆ Economical
- ◆ Aesthetically pleasing

***THE NEW STANDARD
IN SNOW PROTECTION***

SNO BARRICADE™

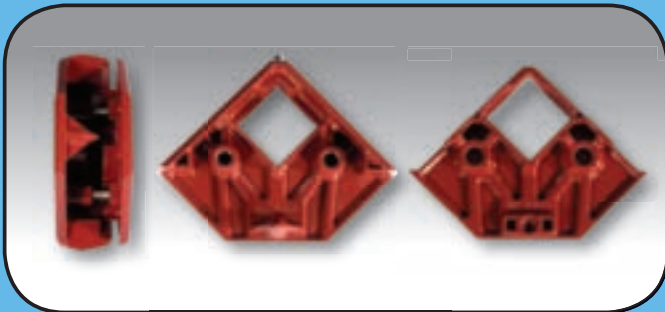
raising the bar in snow retention

For Metal roof systems



The holding power of Sno-Barricade snow guards comes from the innovative Gem Clamp - an engineered functional form. Its unique design raises the bar to create an efficient, snow-stopping profile.

Easy to install, Sno-Barricade snow guards are designed for new or existing standing seam roof systems. They fit all standard and most custom profiles. Inside the Gem Clamp is a patent-pending button punch. It grips tight, yet there is no penetration of the roofing material; original manufacturer integrity is maintained.



Both major components of the Sno-Barricade snow guards - the Gem Clamp and the barricade bar - are available in any standard or custom pre-finished color as well as the real copper finish. There are no "raw" edges or unfinished surfaces to disrupt the aesthetics of the roof line.

POLYCARBONATE

For Metal roof systems

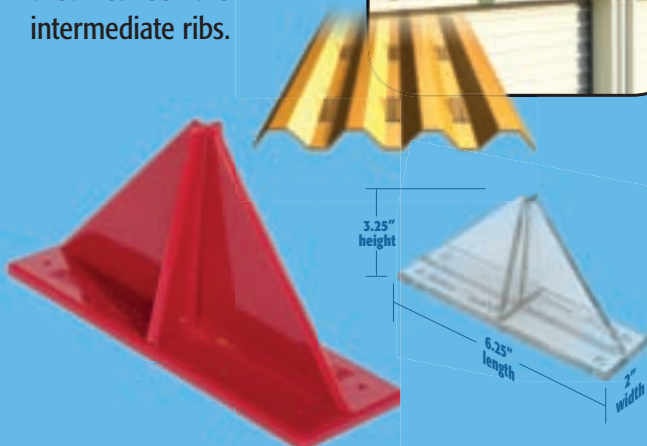
Manufactured from UV stabilized polycarbonate, the unique design of these crystal-like guards suspends the field of snow until the snow and ice gradually melt under the sun's rays.

CUT: SNO-GEM snow guard's prismatic design was developed by architectural sheet metal professionals with over 50 years of on-the-roof experience.

CLARITY: SNO-GEM offers a clear prismatic snow guard which retains its crisp, clean good looks. There's no metal to rust or stain. SNO-GEM snow guards are unaffected by climate extremes.

SNO-GEM Junior

Sno-Gem Junior is a perfect match for pre-fabricated ribbed roof systems used on storage facilities and ag buildings and pole barns. The JR model will be installed in the flat area between the intermediate ribs.



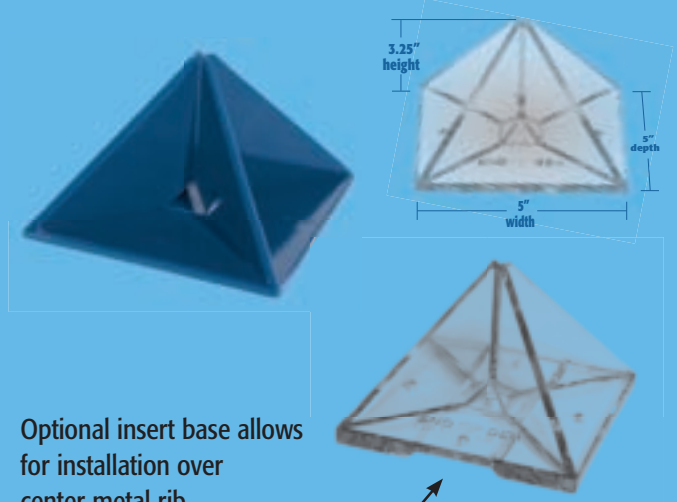
Designed to fit smaller roof panels, corrugated panels and other narrow areas created by intermediate ribs. With a base exactly one-half the size of the standard SNO-GEM, the Junior model offers 12.5 sq. in. of holding power.

COLOR: SNO-GEM snow guards can be matched to all industry standard metal roof colors. SNO-GEM also offers an unlimited amount of custom colors to meet architectural requirements. The color is injected throughout the material.

CARAT: The true measure of a gem's worth. At the heart of each SNO-GEM is an engineered, multi-directional, multipurpose drain opening for melting snow and ice to flow freely, plus cables can be easily routed through the opening.

SNO-GEM Original

The original SNO-GEM snow guard provides a full 25 square inches of holding power – the largest base available anywhere! The size of the base determines the shear strength of a snow guard; the larger the base the greater the amount of shear strength.



Optional insert base allows for installation over center metal rib.

SNO-BARRICADE SPECIFICATIONS

Division 7 - THERMAL AND MOISTURE PROTECTION Section 07610
- Snow Guard for Metal Roof.

1. GENERAL

1.1 SUMMARY

A. WORK INCLUDES:

1. Snow Guards for Metal Roofs
2. Non-Penetrating attachment system
3. Provide clamp and all component parts/setscrews for the roof system

B. Related Sections:

1. Section 07410: Preformed Metal Roofing
2. Section 07600: Flashing and Sheet Metal
3. Section 07610: Sheet Metal Roofing

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. Sno-Barricade Clamp
2. Stainless Steel set screws
3. 1" square tubing
4. End Caps
5. Inserts

B. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer
2. Spacing will vary based on several factors including geographical region snow load and building characteristics.
3. It is important to design new structures or assess the existing structure to make sure that it can withstand retained snow loads.

1.3 SUBMITTAL

C. REVIEW OF SUBMITTALS

1. Show locations of snow guards on roof plan and specify clamp attachment spacing
2. Include product description and installation instructions
3. Samples

1.4 QUALITY ASSURANCE

A. CERTIFICATION

1. Installer must certify in writing the installation was installed per the manufacturer's instructions and approved submittals.
2. A sample/mock-up with all installed components to be provided as guidance of installation for installer.

2. PRODUCTS

2.1 MANUFACTURER

- A. Sno-Barricade – A Division of Sno-Gem, Inc.,
4800 Metalmaster Way, McHenry, IL 60050 (888) 766-4367

2.2 MATERIALS

- A. Clamps: Zinc Zamak #3 Alloy or 6061-T6 Aluminum
B. 1" square Bar/Tube: 6061-T6 Aluminum
C. Inserts: Zinc Zamak #3 Alloy
D. End Caps: Zinc Zamak #3 Alloy
E. Set Screws: 300 Series Stainless Steel
F. Powder Coating available on all materials upon request

2.3 FINISH

- A. Materials to be standard mill finish. Powder Coating available upon request

3. EXECUTION

3.1 EXAMINATION

- A. Substrate: Inspect roof system to verify proper attachment and completion of roof panels and seams and verify the ability to withstand additional loading applied by snow guard system.

3.2 INSTALLATION

- A. Install snow guard system in accordance with manufacturer's recommended layout and installation instructions.

POLYCARBONATE GUARD SPECIFICATIONS

Division 7 - THERMAL AND MOISTURE PROTECTION Section 07610
- Snow Guard for Metal Roof.

1. GENERAL

A. Ice and snow guards

1. Adhered to prefinished metal roof
 - a. Sno-Gem Original Polycarbonate snow guard (5" X 5" Base) (Minimum 25 sq. inch bonding surface)
 - b. Sno-Gem Junior snow guard (6 1/4" X 2" Base) (Minimum 12.5 sq. inch bonding surface)
2. Projected cross-sectional area perpendicular to roof slope
 - a. Sno-Gem Original Polycarbonate snow guard (Min. 7" snow holding area at base per unit)
 - b. Sno-Gem Junior snow guard (Min. 2" snow holding area at base per unit)
3. Clear or integrally colored per architect requirements

2. PRODUCT

A. Acceptable manufacturer

1. SNO-GEM, INC.
4800 Metalmaster Way, McHenry, IL 60050
phone: 815-477-GEMS (4367) • toll free: 888-SNO-GEMS (766-4367)
website: www.snogem.com

B. Materials

1. Polycarbonate polymer material construction
 - a. General Electric "Lexan"
 - b. Bayer "Makrolon"
 - c. Durolon
 - d. Or approved equal
2. Liquid adhesive
 - a. SB-190 sealant adhesive
3. 3M™ Adhesive tape
 - a. Double coated acrylic foam tape
 1. "Scotch VHB™" by 3M™ factory applied to snow guards by manufacturer
4. Primer
 - a. Tape primer 94 to be used for adhesion of 3M™ tape to metal surface

3. EXECUTION

A. Typical Preparation

1. Thoroughly clean metal roof surface area with isopropyl alcohol where snow guard is to be installed
2. Contact SNO-GEM, INC for recommendations on snow guard location and spacing

B. Installation Options (Choose 1 of the following 3)

1. 3M™ Adhesive Tape Installation
 - a. Apply thin coat of primer to roof surface
 - b. Peel release paper backing off adhesive tape on snow guard base
 - c. Place snow guard in position on metal surface, applying firm, even pressure perpendicular to roof surface
 - d. Apply bead of sealant around snow guard perimeter
 - e. Contact SNO-GEM, INC. for time periods and ambient temperatures required for full curing of 3M™ adhesive tape
2. Adhesive Installation (SB-190)
 - a. Spread adhesive evenly across snow guard base with toothed spreading tool ensuring there are no voids which will cause air pockets
 - b. Place snow guard in position on metal surface, applying light, even pressure perpendicular to roof surface
 - c. Apply bead of adhesive around snow guard perimeter
 - d. Contact SNO-GEM, INC. for time periods and ambient temperatures required for full curing of liquid adhesive
3. Mechanical Fastening Installation
 - a. Spread sealant evenly across snow guard base with toothed spreading tool, ensuring there are no voids which will cause air pockets.
 - b. Place snow guard in position on metal surface, applying light, even pressure perpendicular to roof surface
 - c. Install screws with neoprene gasket washers through pilot holes in snow guard and metal roof sheet into roof substrate. Screws to be tightened to cause approximately 50% compression in neoprene gasket
 - d. Two screws minimum to be installed per snow guard. Installer to determine proper length, size, and number of screws necessary for required holding strength and torque
 - e. Apply bead of sealant around snow guard perimeter
4. Contact SNO-GEM, INC. for time periods and ambient temperatures required for full curing of liquid adhesive and adhesive tape



SNO-GEM, INC., 4800 Metalmaster Way, McHenry, IL 60050 • Toll Free: 888-SNO-GEMS (766-4367)
FX: 815-455-4367 • Website: www.snogem.com • Email: info@snogem.com