



## #30 Half-Round Pad-Style Snow Guard for Metal Roofs

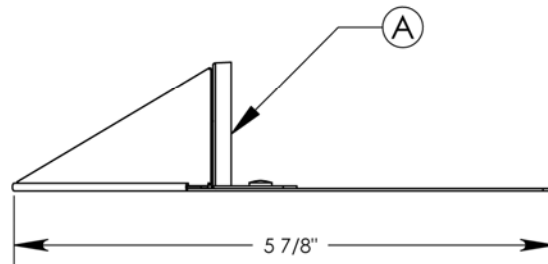
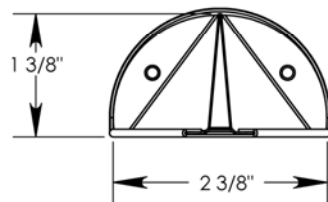
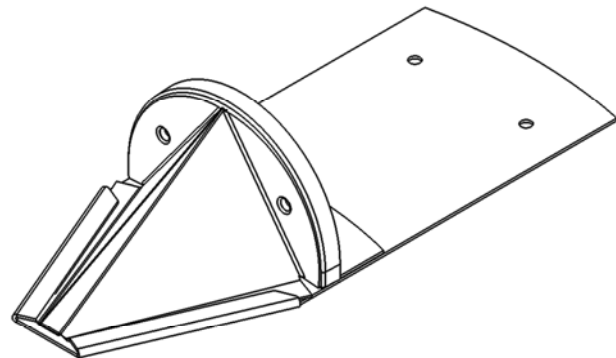
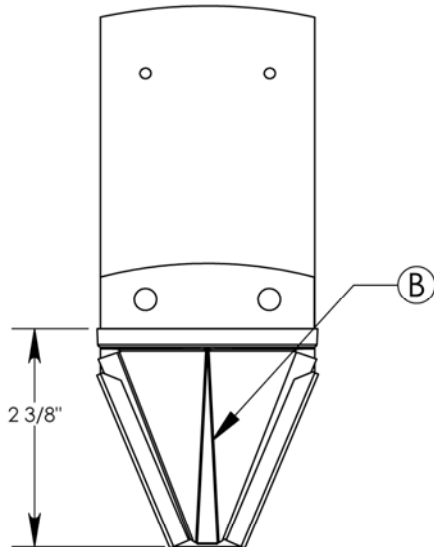
**NOTES:**

1. SNOW GUARDS TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTACT MANUFACTURER FOR CUSTOM MATERIALS AND COLORS.
4. CONTACT MANUFACTURER FOR SUGGESTED LAYOUT.

REVISIONS		
REV.	DESCRIPTION	DATE
A	CHANGE DIRECTION OF SNOW PAD	1/1/06
B	NEW GUSSET DESIGN	6/19/2006

MATERIAL

- |   |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> COPPER             | <input type="checkbox"/> FREEDOM GRAY |
| <input type="checkbox"/> ZINC               | <input type="checkbox"/> GALVALUME    |
| <input type="checkbox"/> LEAD-COATED COPPER | <input type="checkbox"/> POWDER COAT  |
| <input type="checkbox"/> COPPER             | <input type="checkbox"/> MILL FINISH  |
| <input type="checkbox"/> ALUMINUM           |                                       |
| <input type="checkbox"/> POWDER COAT        |                                       |
| <input type="checkbox"/> PAINTED            |                                       |
| <input type="checkbox"/> MILL FINISH        |                                       |



## #30 Half-Round Pad-Style Snow Guard for Metal Roofs



## Alpine SnowGuards™ #30 Snow Guard Specification Sheet

### PART 1 - GENERAL

#### 1.1 SUMMARY

##### A. WORK INCLUDES

1. #30 Snow guard that attaches directly to the roof deck.
2. Coordinate with the installation of the roof to assure proper placement of the snow guards.
3. Provide appropriate snow guard and fasteners for the roof system.

##### B. RELATED SECTIONS

- |                        |                                  |                             |
|------------------------|----------------------------------|-----------------------------|
| 1. Section 07600:      | Flashing and Sheet Metal         | MasterFormat™ 2004 07 60 00 |
| 2. Section 07610:      | Metal Roofing                    | MasterFormat™ 2004 07 61 00 |
| 3. Sheet Metal Roofing |                                  | MasterFormat™ 2004 07 31 00 |
| 4. Metal Shingles      |                                  | MasterFormat™ 2004 07 41 00 |
| 5. Division 7:         | Thermal and Moisture Protection. |                             |

#### 1.2 SYSTEM DESCRIPTION

##### A. COMPONENTS:

1. #30 Snow guard system consists of individual metal snow guards.
2. Fasteners
  - a. Copper to be soldered on using 50/50 solder.
  - b. Lead-coated copper to be fastened using 60/40 solder
  - c. All snow guards should be fastened using good soldering, fastening or adhering techniques as recommended by the manufacturer or building engineer.

##### B. DESIGN REQUIREMENTS:

1. Spacing to be recommended by manufacturer or building engineer.
2. It is important to design new structures or assess existing structures to make sure that they can withstand retained snow loads.
3. Minimum 6 sq. inches of the snow guard strap soldered or adhered to the roof panel.

#### 1.3 SUBMITTAL

- A. Submit manufacturer's specifications, standard detail drawings, recommended layout and installation instructions.

#### 1.4 QUALITY ASSURANCE

- A. Installer to be experienced in the installation of specified roofing material and snow guards for not less than 5 years in the area of the project.

#### 1.5 DELIVERY / STORAGE / HANDLING

- A. Inspect material upon delivery and order replacements for any missing or defective items. Keep material dry, covered and off the ground until installed.

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**ALPINE  
SNOWGUARDS™**  
www.alpinesnowguards.com

Alpine SnowGuards  
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Morrisville, VT 05661  
Toll Free Phone 1.888.766.4273  
Toll Free Fax 1.888.766.9994  
Web www.alpinesnowguards.com  
E-mail info@alpinesnowguards.com

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## **PART 2 – PRODUCTS**

### **2.1 MANUFACTURER**

- A. Alpine SnowGuards. A division of Vermont Slate & Copper Services Inc., 289 Harrell St, Morrisville, VT (888) 766-4273, www.alpinesnowguards.com.

### **2.2 MATERIALS (choose one)**

- A. Copper Strap, hood and gusset are 16 oz. C.R. copper.
- B. Lead-coated Copper Strap, hood and gusset are 16 oz. C.R. copper, lead-coated and cut to size.
- C. Galvalume Strap and Painted Galvanized, hood and gusset are 24 gauge.
- D. Aluminum Strap, hood and gusset are .032 Aluminum.
- E. Freedom Gray strap, hood and gusset are 16 oz. C.R. copper, coated and cut to size.

### **2.3 FINISH**

- A. Mill finish.
- B. Powder coated
- C. Kynar® 500 or Hylar® 5000 pre-painted sheet (aluminum only).

## **PART 3 – EXECUTION**

### **3.1 EXAMINATION**

- A. Substrate: Inspect roof system to be properly attached and installed to withstand additional loading incurred. Notify General Contractor of any deficiencies before installing Alpine SnowGuards.

### **3.2 INSTALLATION**

- A. Comply with architectural drawings for location and with Manufacturer's instructions for recommended layout and installation.

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## **#30 Half-Round Pad-Style Snow Guard for Metal Roofs**

## Installation Instructions for #30 Snow Guards

Contact the manufacturer for project specific recommended layouts.

**To mechanically fasten onto the roof\_** (recommended for painted and mill finish aluminum and Galvalume®):

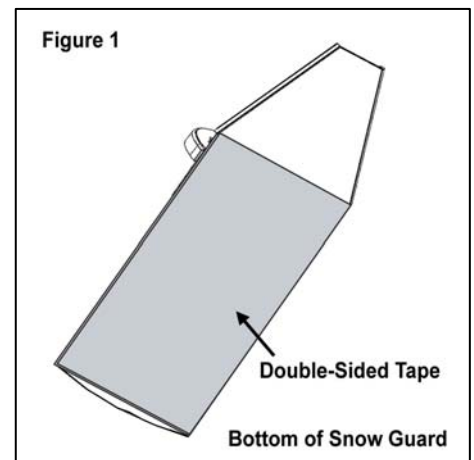
1. Determine where on the panel the snow guard is to be set.
2. Use an appropriate waterproofing sealant under the snow guard.
3. Place two of the appropriate fasteners through the snow guard, through the roof panel and into the roof structure.

**To adhere onto the roof using Alpine Snow Guard Adhesive**

1. Follow the instructions on the Alpine Snow Guard Adhesive's instruction page.

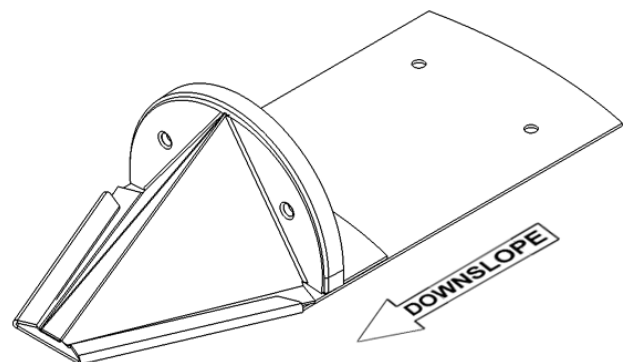
**To adhere onto the roof with adhesive tape:**

1. Prepare the area where the snow guard is to be installed and the back of the snow guard in accordance with the adhesive manufacturer's published instructions. We recommend that you use Normount Tape manufactured by Norton Performance Plastics.
2. Apply the double-sided tape to the back of the snow guard as shown in figure 1.
3. Apply pressure as instructed by the adhesive manufacturer.
4. Caulk the entire perimeter of the snow guard with a very thin bead of sealant.
5. See adhesive manufacturer's instructions for curing periods.
6. Alpine does not warrantee the use of adhesives for installing snow guards.



**To solder onto the roof** (recommended for copper, lead-coated copper, zinc stainless steel and TCS):

1. The backs of the snow guard should be tinned.
2. Determine where on the panel the snow guard is to be set and clean the spot well.
3. Flux, and tin the spot.
4. Place the snow guard in place and heat the snow guard sufficiently to melt the solder on the snow guard and on the panel and allow to cool. If possible this procedure can be done on the ground before installation of panels.

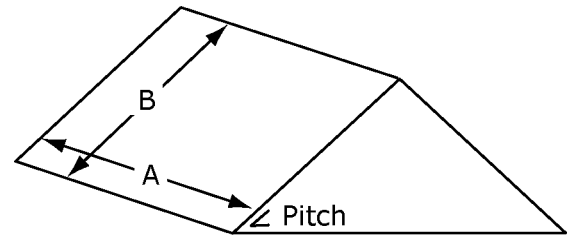


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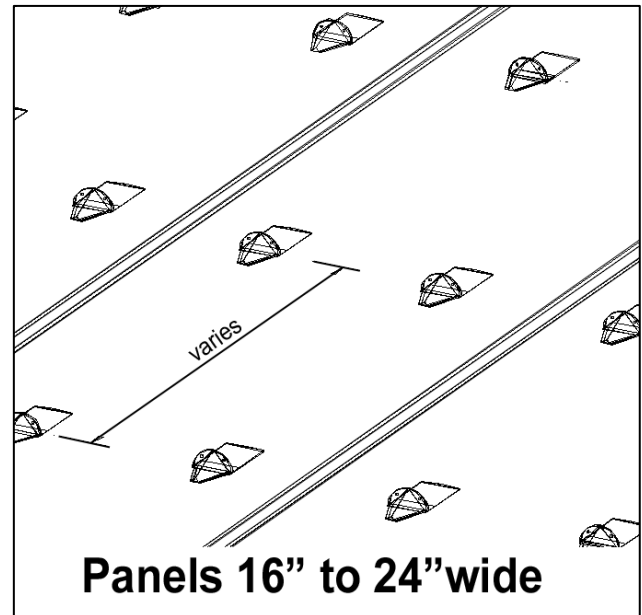
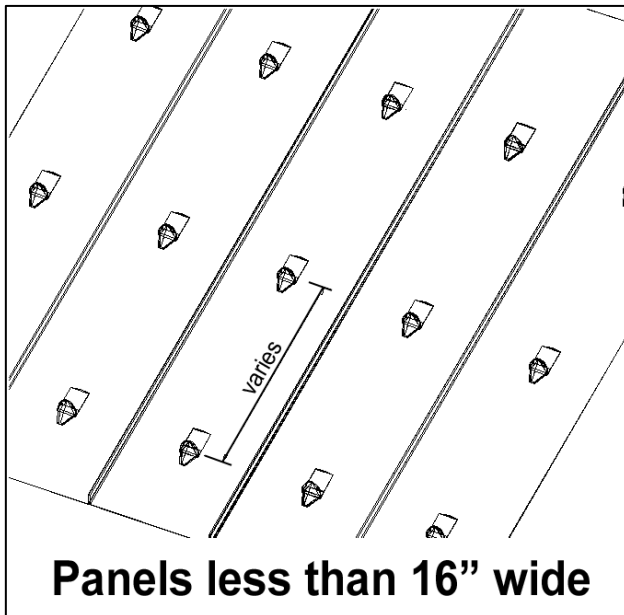
## #30 Pad-Style Snow Guard Layout for Metal Panel Roofs For Through-Fastening Or Using Alpine Snow Guard Adhesive

- Contact Manufacturer for detailed layout, or visit [www.alpinesnowguards.com](http://www.alpinesnowguards.com) to request a recommended layout and quote online..
- For metal panels that are less than 16" wide, use 1 snow guard per panel per row.
- For metal panels that are 16" to 24" wide, use 2 snow guards per panel per row. For other metal panels spacing should be 12" on center horizontally.
- Vertical spacing and the number of rows needed are determined by the method of installation (through fastening, double-sided tape or solder), the distance eave to peak (B on diagram), the roof pitch and the Building Design Load (psf).



### #30 Pad-Style Snow Guard per Row on Metal Roof Panels

Contact manufacturer for project specific recommended layout.



- For metal panels that are 16" wide or less, use 1 snow guard per panel per row.
- For metal panels that are 16" to 24" wide, use 2 snow guards per panel per row.

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