

## **Solar SnowMax with T-Nut Specification Sheet**

### **Snow Guards**

#### **PART 1 – GENERAL**

##### 1.1 SUMMARY

###### A. WORK INCLUDES

1. Solar SnowMax that clamps directly to the solar panel.
2. Provide appropriate clamping mechanism for the solar array installed or being installed.

###### B. RELATED SECTIONS

1. Section 07600: Flashing and Sheet Metal. MasterFormat™ 2004 07 60 00
2. Section 07310: Shingles. MasterFormat™ 2004 07 31 00
3. Section 07320: Roofing Tiles. MasterFormat™ 2004 07 32 00
4. Division 7: Thermal and Moisture Protection

##### 1.2 SYSTEM DESCRIPTION

###### A. COMPONENTS:

1. Solar SnowMax system consists of individual metal brackets.
2. Clamp Mechanism
  - a. To be of metal compatible with snow pads
  - b. Should be selected for compatibility with the solar panel.
  - c. Should exceed or be equal to that of the snow guard system.
3. Snow Retention Bar and Retention Washer
  - a. To be of metal compatible with snow pads
  - b. Should be selected for compatibility with the solar panel.
  - c. Should exceed or be equal to that of the snow guard system.
4. Strap (may only be required on assembly at leading edge of array)
5. Spacer Block (may only be required on assembly at leading edge of array)

###### B. DESIGN REQUIREMENTS:

1. Spacing to be recommended by manufacturer and approved by solar array design engineer.
2. Minimum 1 bracket per panel.
3. It is important to design new structures and solar arrays or assess existing structures and solar arrays to make sure that they can withstand retained snow loads.



### 1.3 SUBMITTAL

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

### 1.4 QUALITY ASSURANCE

- A. Installer to be experienced in the installation of specified solar rack system, roofing material and snow pads for 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.

## **PART 2 – PRODUCTS**

### 2.1 MANUFACTURER

- A. Alpine SnowGuards. A division of Vermont Slate & Copper Services Inc.  
289 Harrel St. Morrisville, VT 05661, (888) 766-4273  
[www.alpinesnowguards.com](http://www.alpinesnowguards.com).

### 2.2 MATERIALS

- A. SnowMax Bracket – 6000 series aluminum
- B. T Nut – 6000 series aluminum
- C. Tensioning Bolts – 1/4" diameter, 20 pitch, 304, 18.8 stainless steel
- D. Square Nut – 1/4" thread, 20 pitch, 304 stainless steel
- E. Snow Retention Bar and Retention Washer – 6000 series aluminum
- F. Strap – (choose one - may only be required on assembly at leading edge of array)
  - a. 24 gauge, 304 stainless steel plumbers strap, 3/4" wide, 18" long
  - b. 1/8" thick, 1 1/2", 18" long series 6000 aluminum
- G. Spacer Block – 1/8" thick, 2" x 2" series 6000 aluminum (may only be required on assembly at leading edge of array)



2.3 FINISH (choose one):

- A. Mill Finish – standard
- B. Powder Coated – available at additional cost
- C. Anodizing - available at additional cost

**PART 3 – EXECUTION**

3.1 EXAMINATION

- A. Substrate
  - 1. Inspect solar array on which snow pads are to be installed and verify that it will withstand any additional loading that it may incur. Notify general contractor, solar design engineer of record and building owner of any deficiencies before installing Alpine Snow Guards, Solar Snow Pads.
  - 2. Verify that the solar array has been installed correctly prior to installing snow pads.

3.2 INSTALLATION

- A. Comply with architectural drawings and snow guard manufacturer's recommendations, solar panel manufacturer's recommendation and solar array design engineer of record for location of system. Comply with manufacturer's written installation instructions for installation and layout.

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Solar SnowMax

