



## Solar SnowMax Universal (SSM-U) Specification Sheet Snow Guards

### PART 1 – General

#### 1.1 SUMMARY

##### A. WORK INCLUDES

1. SSM-U snow guard system that clamps directly to the solar panel.

##### B. RELATED SECTIONS

1. Section 481413: Solar Energy Collectors MasterFormat 2016 48 14 13
2. Section 077253: Snow Guards MasterFormat 2016 07 72 53

#### 1.2 SYSTEM DESCRIPTION

##### A. COMPONENTS

Universal Solar Bracket: A preassembled aluminum bracket and T-Nut installed between panels at the eave edge.

1. SSM-U-BRKT (ships pre-assembled)

Universal Solar End Bracket: A preassembled aluminum bracket and end clamp installed at both ends of eave edge panel row.

1. SSM-U-END BRKT (ships pre-assembled)

Bar: An aluminum bar (8' length) and splice plate that attaches to the Universal Solar brackets via a hex bolt. Contains a 2" tall slot for optional color insert strip.

1. SSM-BAR-2"

##### B. ACCESSORIES

Color Insert Strip: A painted insert strip

2. SNOWMAX-CI-69 (Optional)

Leveling Shim: An adaptor plate that allows system to be installed with rail less solar racking systems.

1. SSM-U-LEVELING-SHIM

##### C. DESIGN REQUIREMENTS

1. Installation to be approved by solar array design engineer.
2. Maximum 68" between clamps and a minimum 1 clamp per panel joint.
3. No more than 6" of SSM-BAR 2" extended past the last bracket.
4. Solar Panel mechanical load rating of minimum 5,400 Pa.
5. It is important to design new structures and solar arrays or assess existing structures and solar arrays to ensure that they will withstand the retained snow loads.

#### 1.3 SUBMITTAL

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

#### 1.4 QUALITY ASSURANCE

- A. Installer to be experienced in installation of specified solar racking system, roofing material, and snow guards for the area of the project.



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### 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. Designed and exclusively distributed by 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. SSM-U-BRKT

1. SSM-U-BRKT – 6000 Series Aluminum
2. SSM-U T-NUT – 6000 Series Aluminum
3. W-STR SS-M5 – 304 Stainless Steel
4. B-HX SS-M5X0.8X65 – 18-8 Stainless Steel
5. SSM-R2-TAPE – Basek PE Foam Tape
6. B-HX SS-.25-20X.75 – 18-8 Stainless Steel
7. SSM-U-LEDGE – PA66 + 50% Glass Fiber Plastic
8. Socket Head Screw 0.19-24x0.25 – 18-8 Stainless Steel

#### B. SSM-U-END BRKT

1. SSM-U-BRKT – 6000 Series Aluminum
2. SSM-U L FOOT – 6000 Series Aluminum
3. SSM-U FOOT BRACKET – 6000 Series Aluminum
4. W-STR SS-M5 – 304 Stainless Steel
5. B-HX SS-M5X0.8X65 – 18-8 Stainless Steel
6. SSM-R2-TAPE – Basek PE Foam Tape
7. B-HX SS-.25-20X.75 – 18-8 Stainless Steel
8. SSM-U-LEDGE – PA66 + 50% Glass Fiber Plastic
9. Socket Head Screw 0.19-24x0.25 – 18-8 Stainless Steel

#### C. SSM-BAR-2"

1. SSM-BAR-2" – 6000 Series Aluminum
2. SNOWMAX LIGHT SPLICE – 6000 Series Aluminum

### 2.3 ACCESSORY MATERIALS

A. SNOWMAX-CI-69 – .032 Aluminum

B. SSM-U-LEVELING-SHIM – 6000 Series Aluminum

### 2.4 FINISH

A. SSM-U-BRKT and SSM-U-END BRKT – Anodized black (Standard)

B. SSM-BAR-2" – Mill finish



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### **Snow Guards**

#### **PART 3 – EXECUTION**

##### **5.1 EXAMINATION**

###### **A. Substrate**

1. Inspect solar array on which the snow guards 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 owner of any deficiencies before installing Alpine SnowGuards' Solar SnowMax Universal (SSM-U).
2. Verify that the solar array has been installed correctly prior to installing Alpine SnowGuards' Solar SnowMax Universal (SSM-U).

##### **5.2 INSTALLATION**

###### **A. Comply with architectural drawings, solar panel manufacturer's recommendations, and solar array design engineer of record for location of system. Comply with manufacturer's written installation instructions.**

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