

## Solar Snow Management Systems Layout Overview

### Recommended Components

#### 1) Solar Snow Dog

- Pad-style snow guard that is 6" wide and installed upslope in the array in horizontal joints of panels that are spaced a minimum of 3/8"

#### 2) Solar SnowMax-Universal

- a. Array-mounted fence-style system that is 2" high and installed at lowest edge of array; limited in height to prevent panel shading and maximize snow holding potential
- b. Nearly eliminates panel shading except near sunrise and sunset on very low pitch applications

#### 3) SSG-313

- a. Roof-mounted snow guard system with required minimum 24" landing zone between solar panels and roof-mounted snow guard system

When installed together, Solar Snow Dog and Solar SnowMax-Universal (SSM-U) will typically retain 4"-6" inches of snowfall which is 2-3 times the height of SSM-U's bar.

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## Solar Snow Retention System



Alpine SnowGuards innovative, first and only system on the market has evolved into three components that are recommended for all roof mounted or carport solar arrays in snowy regions with a pitch of 2/12 or greater. Shading analysis and extensive performance testing conducted at our research facility.

1

#### Solar Snow Dog

Horizontal Joints (Upslope), Pad-Style



2

#### Solar Snow Max-Universal

Array-Mounted, Fence-Style



3

#### SSG-313

Roof-Mounted, Pipe-Style



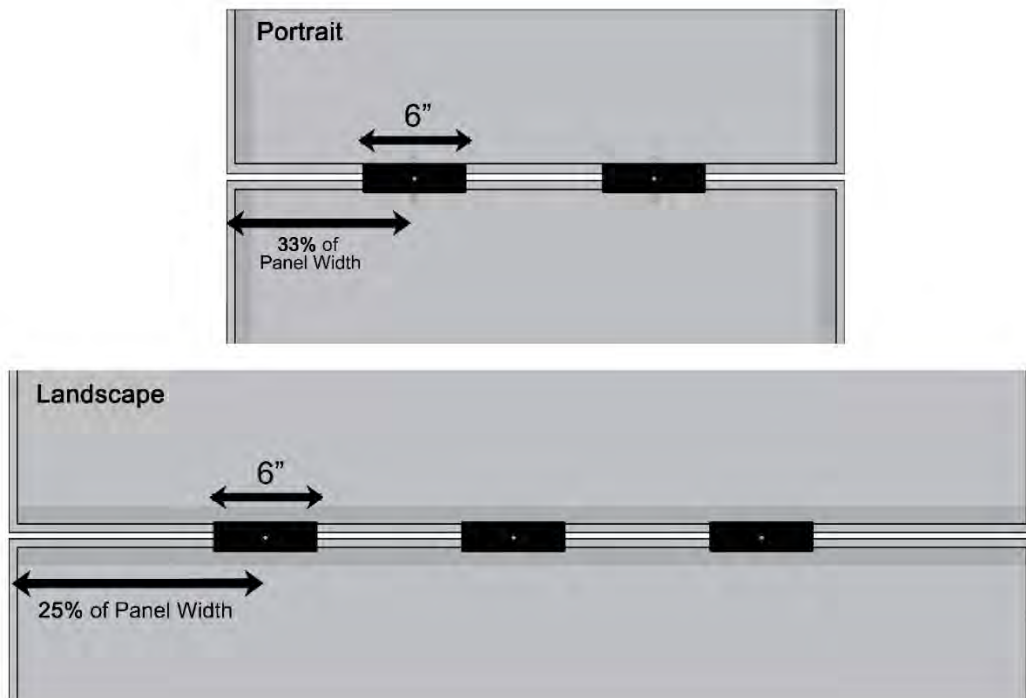
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### Portrait Solar Panel Orientation

- Alpine suggests a minimum of (2) Snow Dogs per panel, spaced at 33% of panel's width

### Landscape Solar Panel Orientation

- Alpine suggests using a minimum of (3) Snow Dogs per panel, spaced at 25% of panel's width



### Important Information About Snow Depths Greater than 6"

There may be conditions where snow accumulates to depths greater than 6" behind SSM-U and Snow Dog. If this happens, it is the responsibility of the building owner to clear the excess accumulation. This will ensure structural integrity. This will also help to protect critical safety areas below the array and allow for more power generation.

This solar snow management system slows the movement of snow and ice off the panels; limiting the chance for a large mass to evacuate all at once, similar to an avalanche.

### Product Information

For product information, including Cut Sheets, Assembly, Specifications and Installation Instructions, visit <https://www.alpinesnowguards.com/roof-type/solar-panels>.