



SnowMax-U2, SnowMax-UT2, SnowMax-T2 and SnowMax-Z2 Installation Instructions

ROOF TYPES

- New / Existing Metal Standing Seam

INSTALLATION

SnowMax Block (Clamp)

Machine Folded Seams: when attaching blocks (clamps) to machine folded seams, (regardless of panel profile and geometry), SnowMax block (clamp) is designed to engage seams by pinching seams with (2) stainless steel set screws.

Horizontal Seams: for horizontal seam applications (inverted "L"), set screws must be accessible from top of the block for tightening.

Snap Together Seams: on snap together type seams, orient block (clamp) so set screws are opposite the open, or overlap side of the seam.

Other Seams: on some types of panel seams, the aspect of block (clamp) orientation is not critical.

Note: *Some horizontal seams may require additional hand crimping at the block (clamp) location.*

1. Two set screws are used in any given SnowMax block (clamp) installation.
2. Position blocks (clamps) appropriately on the panel seam. Using a 3/16" Allen- wrench attachment tip for a 1/4" drive screw gun, tighten and retighten set screws as the seam material compresses. On low seam profiles, a 4" bit extension on the screw gun may help to access the set screw. Tighten set screws to a torque value of 140-180 inch-pounds.

Note: *Battery-operated screw guns may not deliver consistent screw tension.
Drywall guns may not deliver adequate tension.*

3. Place SnowMax bar on top of SnowMax block (clamp) so the slotted face of the bar is facing down slope. When properly installed, the face of the bar will help hide the block (clamp).
4. Place lock washer on flat head bolt. Insert bolt in top of SnowMax block (clamps) and tighten until lock washer engages the top of the SnowMax block (clamp). Once this interface has been achieved, torque bolt to a minimum of 100 inch-pounds.
5. SnowMax bars are provided in 8' lengths. Each bar comes with a coupling/splice device (rectangular shape) that slides into the slot at the end of the bar. Join successive bars by sliding slotted end over the coupling/splice device.



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SNOW GUARD ACCESSORIES (OPTIONAL)

SnowMax - Color Insert

The face of the bar is designed to accept a 2" wide color insert. This is available in a limited color selection from Alpine SnowGuards. Many installers provide this part themselves using roofing material they have on hand.

SnowMax-Ice Flag-AL

- Ice flags are optional but recommended, at least on bottom tier of guards (assuming project needs more than one tier).
- Ice Flags are cut to length so flag does not rest on roof panel. Therefore, Alpine SnowGuards will need to know seam height to precut ice flags to proper length.
- To install on panel widths 24" wide or less, center ice flag on the bar between seams and fasten with one Tek screw (provided).
- For panels 25" wide or wider, install 2 ice flags per panel:
(Example 42" wide / 3 = 14" spacing between seam and ice flag) spaced evenly.

Note: Once point of TEK screw is through metal, only tighten enough to engage TEK screw. Do not over-tighten or over-torque with a drill. Tighten by hand only to securely engage flag.

ASSEMBLY

Assembly detail for SnowMax System is available on www.alpinesnowguards.com.

- Loads imposed on SnowMax System will be transferred to the panels.
Panels must be properly attached to building structure to resist these loads.
- This system is not approved as a fall arrest system.

COMMON INSTALLATION HINTS AND TRICKS

See next page

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COMMON INSTALLATION HINTS AND TRICKS

When a SnowMax-U2 block is installed slightly up or down-slope of the previous block, the gap may be too close to install the lock washer (gap shown in fig. 4a).

Due to tight manufacturing tolerance, this issue is a common occurrence but has a fast and easy solution detailed below.

1. Lift slightly or apply down-slope pressure on the free (unfastened) side of the SnowMax bar and insert a small flat head screwdriver as shown in fig. 4b.

If lifting does not create enough of a gap, use a hammer to tap the screwdriver into where the gap should be. This will gouge the aluminum dovetail, on upslope edge of block where the bar engages the block, and will not affect integrity of the system

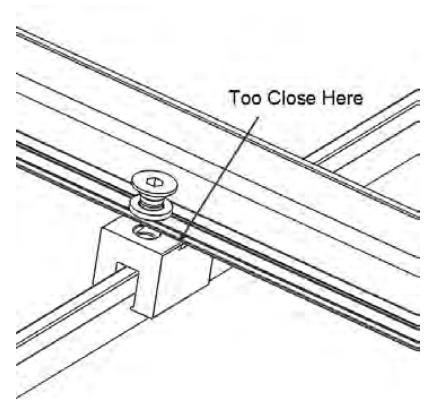
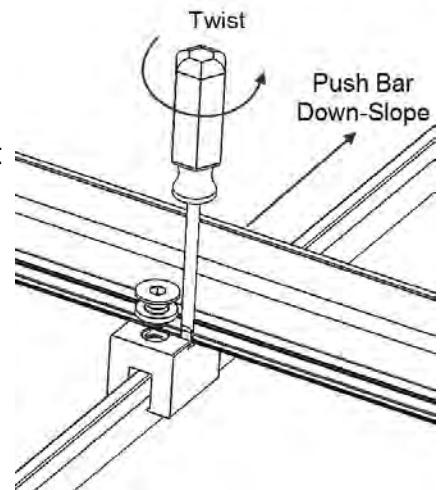


fig. 4a Looking Down-Slope during SnowMax Install

2. Raise handle of screwdriver until it is plumb to roof surface. Twist screwdriver to create a lever that will force bar to properly seat in the dovetail (see fig. 4b). Once bar is properly seated and aligned, insert flat head bolt and lock washer and thread into attachment hole. Once bolt has been started, it is easiest to use an impact driver or screw gun with a socket to secure it the rest of the way in.
3. It is also helpful to apply pressure downward on top of the bar to assure it is properly seated in the dovetail. This downward pressure allows the head of the flat head bolt to slide easier past the back of the bar.



IMPORTANT

- Do not install runs of snow retention bar more than 100 feet long without a break to allow for thermal expansion.
- First row of snow guards are installed above outer most wall or support of the building.

fig. 4b Inserting the Screwdriver

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