

# SnoCheat PBR



## Installation Instructions

**Do not discard these instructions.**

**Please read and fully understand all warnings, instructions and regulations prior to use.**

## Table of Contents

Required Tools.....	3
System Parts.....	3
Spacing Layout Guidelines.....	4-8
Installation Instructions .....	9-10
Design Considerations .....	9-10
Warranty .....	10-11

## Before Installing the SnoCleaT Snow Guard System

Always make sure that there is adequate substrate under the roof sheet for the mechanical attachment of the SnoCleaT. The SnoCleaT must be attached through the roof sheet, into at least 1.5” of wood substrate or metal purlins.

Never install the SnoCleaT in isolated roof areas such as over doorways or partial roof sections.

**Make sure all workers are properly harnessed and anchored to the roof according to OSHA fall protection guidelines.**

**Never use the SnoCleaT product as a tie off point!**



## **REQUIRED TOOLS:**

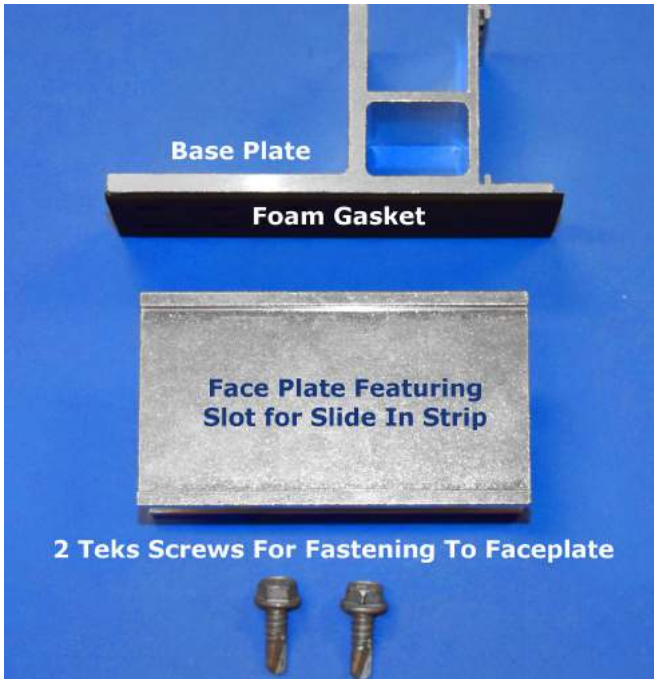
Make sure to have the proper tools for installing the SnoCleaT.

- Drill Gun with 3/8” Nut Driver Bit for driving Faceplate Tek Screws and Roofing Screws (Sold Separately)
- Tape Measure
- Pliers for crimping optional 2 inch ColorStrip in Face
- Pencil and sharpener

## **SYSTEM PARTS:**

Verify quantities of the parts against the packing slip. Each SnoCleaT Seam Mounted snow guard should include:

- SnoCleaT Base Plate With Foam Gasket (User Applied)
- Face Plate With Slot for ColorStrip (Optional)
- 2 Self-Drilling Tek Screws To Attach Faceplate



## **SPACING LAYOUT GUIDELINES:**

In parts of the world that receive winter precipitation, snow and ice on glossy coated metal roofing can create an extremely dangerous avalanche condition. A properly installed snow guard system can mitigate this condition. Our approach to proper placement involves an overall spacing throughout the entire roof area to keep snow and ice from shifting initially. Once frozen precipitation loses its grip on a metal roof and begins a down-hill slide, everything in its path will be destroyed. A row of snow guards placed along the eave or gutter edge of the roof is not always enough protection against this dangerous condition. A snow load that is spread evenly up the slope will preserve the long-term integrity of the structure, the metal roof and the snow retention system. Use your pitch on the following pages to determine a general spacing guideline.

### **DISCLAIMER:**

This manual should be used only for the purpose of developing plans, specifications and/or approval drawings for construction projects utilizing only IceBlox, Inc. manufactured or distributed products and components. It is to be used as a quick reference for estimating snow guard quantities and placement on roofs with less than 45 PSF ground snow load.

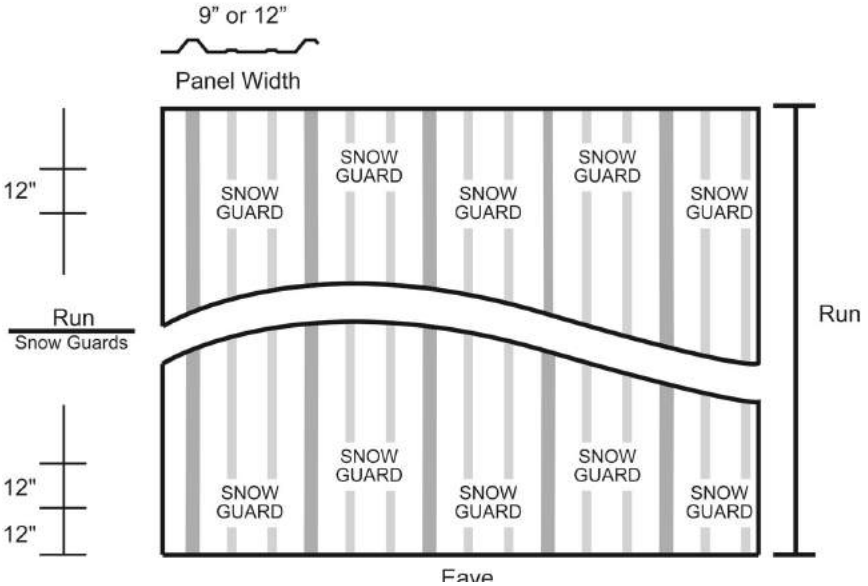
IceBlox Inc., d.b.a SnoBlox-Snojax, referred to hereafter as IceBlox, Inc., or any subsidiary brands or companies, is not responsible for estimates or purchases resulting from the erroneous or improper use of this page.

The user shall determine the suitability of the product for its intended use and assumes all risks of its use or handling. In regards to spacing guidelines, quotations and or layouts, IceBlox, Inc. will not be held liable for incorrect material quantities.



Spacing Layout Guidelines Cont'd.

## Up to 2/12 Roof Pitch



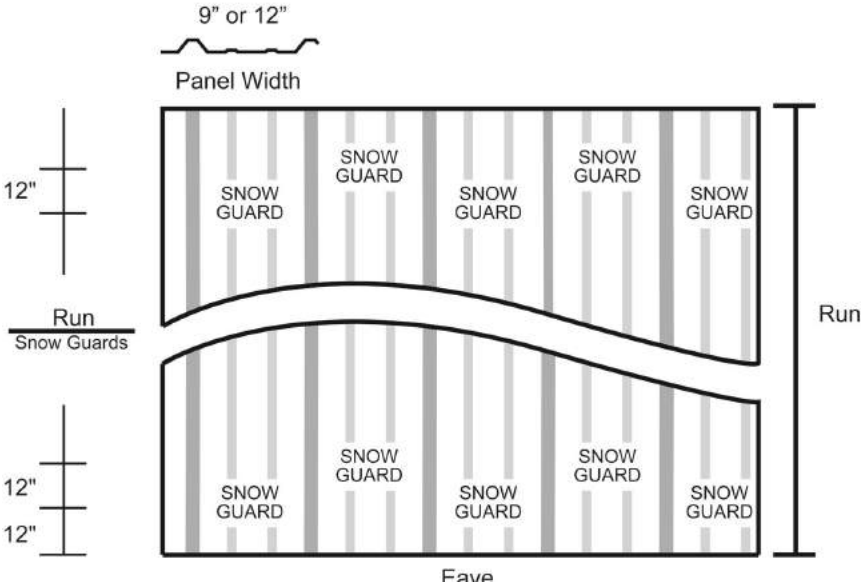
- Pitch:** Up to 2/12 pitch.
- Required:** 1 SnoCleat per 9-12 inches placed in the center of the panel valley every 15 feet up the roof.
- Snow Load:** Up to 45 PSF ground snow load.

Starting at 1 and 2 feet from the bottom edge, place a snow guard every 9-12 inches using a staggered pattern across the entire roof area. Go up the roof 15 feet and repeat the staggered pattern placing a SnoCleat every 9-12 inches across the entire roof area. Do not exceed 15 feet vertically between rows of guards. For Example: if your roof sheets are 30 feet long, your roof would require a staggered pattern at 1 and 2 foot from the eave and a second staggered pattern at 14 and 15 feet from the eave line. When possible, always attempt to divide the roof areas into equal sections, with equal distance between rows, without exceeding the manufacturer maximum placement guidelines. Please see drawing above for general placement guidelines.



Spacing Layout Guidelines Cont'd.

### 3/12 to 4/12 Roof Pitch



**Pitch:** 3/12 to 4/12 pitch.

**Required:** 1 SnoCleat per 9-12 inches placed in the center of the panel valley every 10 feet up the roof.

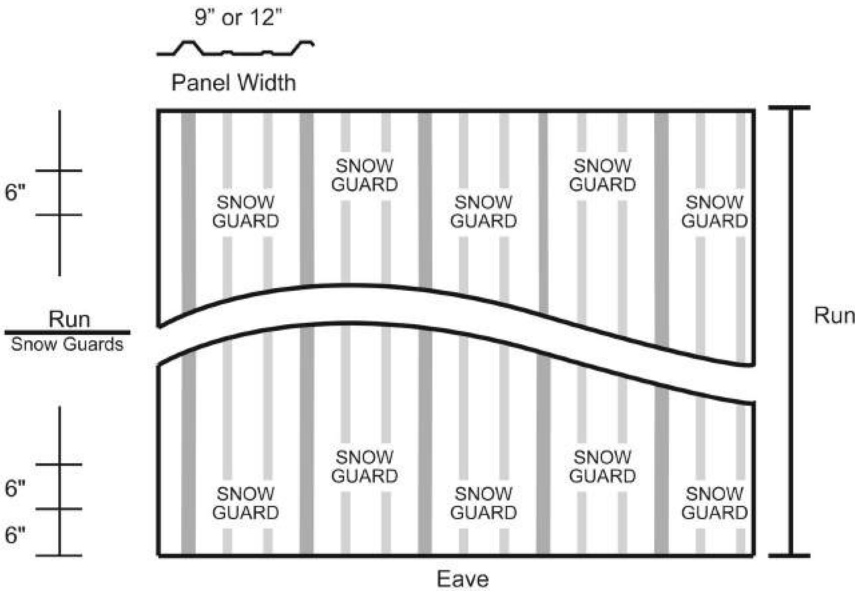
**Snow Load:** Up to 45 PSF ground snow load.

Starting at 1 and 2 feet from the bottom edge, place a snow guard every 9-12 inches using a staggered pattern across the entire roof area. Go up the roof 10 feet and repeat the staggered pattern placing a SnoCleat every 9-12 inches across the entire roof area. Do not exceed 10 feet vertically between rows of guards. For Example: if your roof sheets are 20 feet long, your roof would require a staggered pattern at 1 and 2 foot from the eave and a second staggered pattern at 9 and 10 feet from the eave line. When possible, always attempt to divide the roof areas into equal sections, with equal distance between rows, without exceeding the manufacturer maximum placement guidelines. Please see drawing above for general placement guidelines.



Spacing Layout Guidelines Cont'd.

**5/12 to 6/12 Roof Pitch**



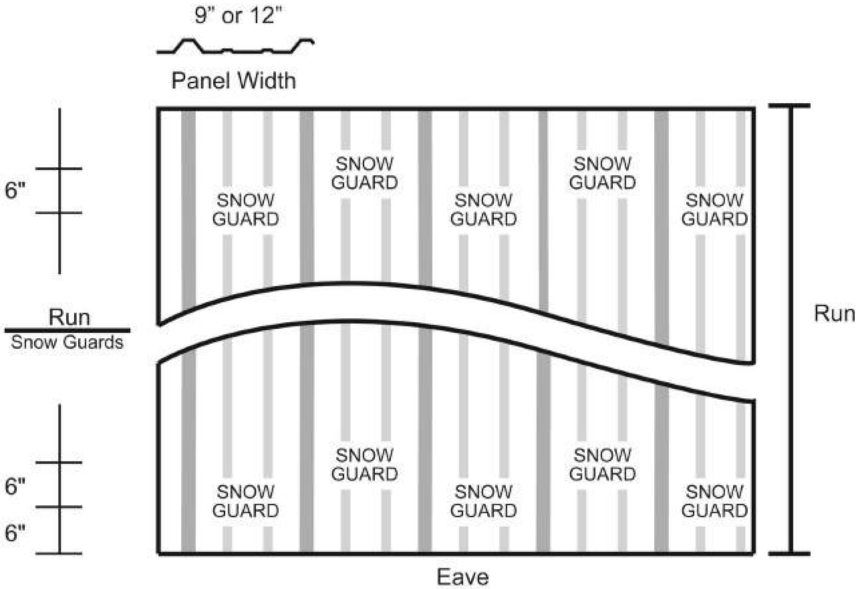
- Pitch:** 5/12 to 6/12 pitch.
- Required:** 1 SnoCleat per 9-12 inches placed in the center of the panel valley every 8 feet up the roof.
- Snow Load:** Up to 45 PSF ground snow load.

Starting at 6" and 12" from the bottom edge, place a snow guard every 9-12 inches using a staggered pattern across the entire roof area. Go up the roof 8 feet and repeat the staggered pattern placing a SnoCleat every 9-12 inches across the entire roof area. Do not exceed 8 feet vertically between rows of guards. For Example: if your roof sheets are 16 feet long, your roof would require a staggered pattern at 6" and 12" from the eave and a second staggered pattern at 7 feet and 7'6" from the eave line. When possible, always attempt to divide the roof areas into equal sections, with equal distance between rows, without exceeding the manufacturer maximum placement guidelines. Please see drawing above for general placement guidelines.



Spacing Layout Guidelines Cont'd.

**7/12 to 12/12 Roof Pitch**



**Pitch:** 7/12 to 12/12 pitch.

**Required:** 1 SnoCleat per 9-12 inches placed in the center of the panel valley every 5 feet up the roof.

**Snow Load:** Up to 45 PSF ground snow load.

Starting at 6" and 12" from the bottom edge, place a snow guard every 9-12 inches using a staggered pattern across the entire roof area. Go up the roof 5 feet and repeat the staggered pattern placing a SnoCleat every 9-12 inches across the entire roof area. Do not exceed 5 feet vertically between rows of guards. For Example: if your roof sheets are 10 feet long, your roof would require a staggered pattern at 6" and 12" from the eave and a second staggered pattern at 5 feet and 5'6" from the eave line. When possible, always attempt to divide the roof areas into equal sections, with equal distance between rows, without exceeding the manufacturer maximum placement guidelines. Please see drawing above for general placement guidelines.



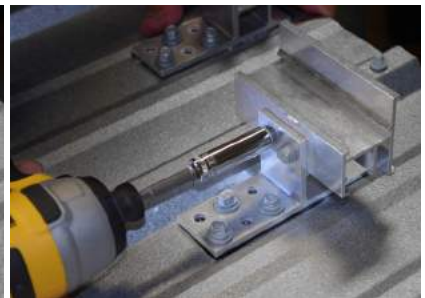


## INSTALLATION INSTRUCTIONS:

1. Verify all included parts against the packing slip. Please see diagram on page 3 for a picture showing the included system parts.
2. Read and follow the spacing layout guidelines on pages 5-8. **Important: Always install guards on complete roof sections, never isolate areas of snow guards.**
3. Peel the backing off of the foam gasket, punch out the 3 holes in a zig zag formation and stick on the base. Place the SnoCleave base on the roof panel so the face plate holder bracket is facing the eave. All screws should face the ridge. Align the base in a flat portion of the panel that is at least 1.5" wide. Screw down the SnoCleave base staggering at least three #14 roofing screws with neoprene washers.

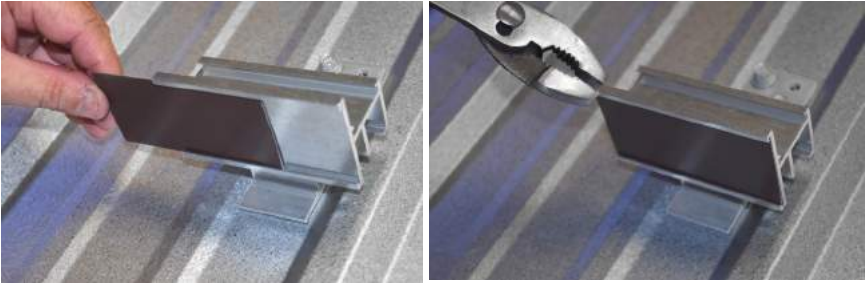


4. Center the Faceplate on the base with the slotted end facing downhill. Screw through the pre-drilled holes in the face holder base of the SnoCleave using the 2 supplied Tek screws.



## Installation, Cont'd.

6. An optional 2 inch X 4 inch ColorStrip cut from excess roofing material can be installed in the face of the SnoCleaT to color match the roof. Pinching one corner of the slot in the SnoCleaT face with a pair of pliers will prevent the ColorStrip from sliding or blowing out.



## DESIGN CONSIDERATIONS:

1. It is not recommended to place the SnoCleaT System in isolated areas such as over doorways, vents and partial roof areas.
2. No snow retention system is capable of retaining 100% of snow and ice from falling off a roof. The system is only designed to mitigate the dangers of sliding snow and ice.
3. The Designer/Architect, Installer, or Owner of the project should have knowledge of the local snow loads (ground snow load PSF/kPa), climatic conditions, roof slope, roof orientation, potential drifting, and roof design prior to installing a SnoCleaT system.

## Design Considerations, Cont'd.

4. System spacing guidelines are calculated using length of panels, Ground Snow Load, roof slope, and roof areas needing protection from falling snow and ice. More than one row of SnoCleaT may be needed. Questions? Call customer service at 800-766-5291 or email [support@snojax.com](mailto:support@snojax.com).
5. Finally, no matter how well a system is designed, Mother Nature can sometimes produce more snow and ice than what the SnoCleaT system was designed to handle. Unforeseen conditions such as drifting, ice and unusual amounts of snowfall can overload the SnoCleaT system. The building owner must be aware of these potential conditions and be prepared to physically remove the snow and ice from the roof when snow loads exceed what the SnoCleaT system was originally designed to hold. Snow retention systems do not prevent snow drifting on overhangs or cornices. The owner must be aware of these situations and remove them as they occur. This system does not prevent ice dams. Ice dams typically happen when water runs down toward the colder eave where it freezes. The ice can potentially back up under the roofing material.

It is the sole responsibility of the Designer/Architect, Installer, or Owner to assess the suitability of using the SnoCleaT systems based on the above design considerations.

### **Warranty:**

The following warranty is made in lieu of all other warranties expressed or implied. Recommendations for proper use of the product are based on tests believed to be reliable. Any goods proven to be defective due to materials will be replaced, or purchase price refunded, but in no event shall the manufacturer be responsible for damages in excess of the purchase price. User shall determine the suitability of the product for its intended use and assumes all risks of its use or handling.



# SnoCleaT PBR



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instructions and regulations prior to use.**