

# SnoBar - ColorBar



## Shingle Mount ColorBracket Installation Instructions

**Do not discard these instructions.**

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



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## **Before Installing the SnoBar/ColorBar ColorBracket System**

Read the **DESIGN CONSIDERATIONS** on the last page.

### **NOTE:**

It is optimal to install this system the same time as the roof shingles. If the roof shingles are already installed, it will be necessary to lift or possibly removed the shingles o install the mounting brackets. Manufacturer is not responsible for shingle damage caused by installation.

### **REQUIRED TOOLS:**

- Rubber Mallet for inserting end caps into SnoBar
- Drill Gun or Impact Gun
- 5/32” Allen Hex Driver
- Phillips head bits for impact gun
- Tape Measure
- Hacksaw
- Deburring File
- Pencil



**SYSTEM PARTS:**

**Your system should include:**

- Shingle Plate
- ColorBracket Shingle Mounts with Foam Gaskets
- Pan Head Wood Screws to Mount Plate to Deck



- Button Head Socket Cap Bolts
- Serrated Flange Hex Lock Nuts



- Self-Drilling Tek Screws to Secure Bar to Mount



- SnoBar with End Caps or ColorBar with Splice Connector





## **INSTALLATION TIPS:**

- Never extend the bar more than 3” past the last bracket on the end of a row or a row terminating in a valley.
- Bars may have to be cut to length depending on panel width. Do not discard any bar cutoffs until the job is complete.

Short sections of SnoBar or ColorBar must span at least two shingle brackets. In a continuous run of SnoBar or ColorBar, cutting of the bar may be required to avoid having a short bar at one shingle bracket.

## **DETERMINE LAYOUT OF ROWS:**

Refer to the layout that was provided when the system was purchased. If no layout was provided, then a preliminary basic layout would be one row 12” up from the eave (or over the load bearing wall) and all additional rows spaced evenly up the slope. The shingle mounts should be no more than 12” apart.

Always follow the manufacturer’s project specific design recommendations to validate the warranty.

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

**\*Never use the SnoBar/ColorBar system as a tie off point.**



## **INSTALLATION STEPS:**

1. Apply foam pad to mounting bracket.



2. Attach tall ColorBracket bar mount through the Shingle Plate with (2) supplied Button Head Socket Cap Bolts and (2) 1/4-20 Serrated Flange Hex Lock Nuts. The lock nuts should be on top. Tighten to 90-inch pounds.



2. Carefully lift or remove roofing shingle and attach the Shingle Plate to the deck with (4) Stainless Steel Pan Head Phillips Wood Screws. Place shingle over the pan head screws leaving the bar mount exposed when the roofing shingle is placed back down over the plate.



## Installation, Cont'd.

3. Place a full section of bar down into both ColorBrackets mounts (do not attach bar to ColorBrackets mounts yet). This section of bar will be used as a straight edge to install the remaining ColorBrackets for that bar section.



4. If using the 1" square SnoBar, install the supplied Plastic End Caps at each end of the SnoBar. Be sure to de-burr any field cut bars prior to installing End Caps. If using the aluminum ColorBar, disregard this step.

5. The next step is to attach the bar to the ColorBracket mounting brackets. SnoBar/ColorBar should never extend more than 3" past the last ColorBracket mount either end of a continuous row. Starting at the farthest left ColorBracket mount, make sure the bar is seated tightly, while applying downward pressure. Install the (2) Tek Screws through the back of the ColorBrackets into the bar using the 3/8" driver bit. Follow the same procedures for each ColorBracket, applying downward pressure, as you progress down the section of bar.



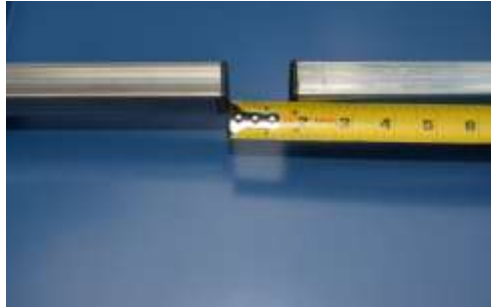
**Repeat these 5 steps for each full section of bar until the row is completed.**



Installation, Cont'd.

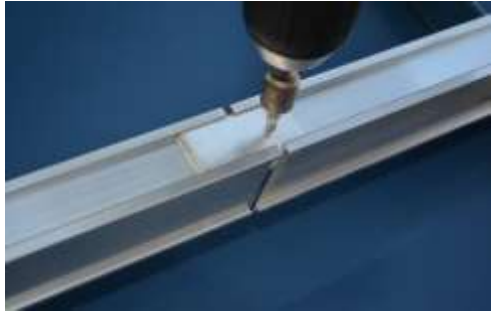
**For SnoBar,**

Butt joints should always be centered between the 2 mounting brackets with no more than a 2" gap between butted ends. Some situations may require the bars to be cut to fit correctly on the roof.



**For ColorBar,**

The supplied Splice Connectors create a continuous run of bar therefore the bar ends should be no further than 1/8" apart. ColorBar butt joint connections can be made anywhere along the row other than inside the ColorBracket mounting



brackets, as long as the splice connectors are properly installed with 1 Tek screw each. 2"

ColorStrips can be made from excess metal panels on the jobsite. User supplied ColorStrips can be installed on the face of the ColorBar and in the front slot of the Tall/Short ColorBracket. (see finished product in bottom left pic).



## Installation, Cont'd.

7. Space additional rows of SnoBar or ColorBar evenly up the slope, always measuring from the eave according to the layout provided. This gives the best protection against snow and ice slides while providing balanced structural loading across the entire roof structure. If you are unsure how to space additional rows, please call us at 800-766-5291.

For example, if you have a 31'-6" roof length from eave to the ridge that requires three rows of SnoBar or ColorBar, place the first row 18" up from the eave, the second row 11'6" from the eave, then place the third and final row 21'-6" up from the eave.

Action Manufacturing LLC and/or IceBlox, Inc are not responsible if failure occurs from improper installation, improper attachment, improper roof system installation, or inadequate layout of the SnoBar or ColorBar system.

Be sure to follow all instructions and call us at 800-766-5291 if you have any installation questions.

## **DESIGN CONSIDERATIONS:**

1. New and existing structures must be evaluated to insure they can withstand retained snow loads. (In instances where there is an overhang at the eave edge, it is imperative to make sure that the overhang can hold the accumulated snow load, otherwise, the first row of SnoBar or ColorBar should occur at the bearing wall.)
2. It is not recommended to place the SnoBar/ColorBar System in isolated areas such as over doorways, vents and partial roof areas. Please call for special design considerations in these areas.





## Design Considerations, Cont'd.

3. No snow retention system is capable of retaining 100% of snow and ice from falling off of the roof. The system is designed to mitigate the dangers of sliding snow and ice.
4. 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 SnoBar or ColorBar system.
5. System layout is calculated using length of panels, Ground Snow Load, roof slope, snow loading, and areas needing protection from falling snow. More than one row of SnoBar/ColorBar may be needed. We provide free design service to make sure it is done correctly the first time. Please give us a call at 800-766-5291 or send an email to [support@snojax.com](mailto:support@snojax.com) with any questions.
6. Finally, no matter how well a system is designed, Mother Nature may create unforeseen conditions that may have not been considered, such as drifting, ice, uncharacteristic amounts of snowfall, etc. Owners must be aware of these conditions and when these extremes are reached, snow and ice should be physically removed from the roof. 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.

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

