

ColorBracket



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	2
System Parts	3
Installation Tips.....	3
Determine Layout of Rows	3
Installation Steps	4-6
Design Considerations.....	7-8

Before Installing the SnoBar/ColorBar ColorBracket System

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

NOTE:

ColorBrackets can be used with either SnoBar and ColorBar. The Short ColorBrackets are to be used on 2.67 corrugated roofing and the Tall ColorBrackets are to be used on all other mechanically fastened metal roof systems.

REQUIRED TOOLS:

Tools required for installing the SnoBar/ColorBar System.

- Rubber Mallet for tapping in end caps for SnoBar
- Drill Gun
- 3/8” Nut Driver Bit for driving 1.5” Master-Driller Tek Screws in to steel purlins.
- 5/16” Nut Driver Bit if using 2” Wood Screws for the Tall ColorBracket or 3” Wood Screws for Small ColorBracket mounted in to wood purlins.
- Tape Measure
- Hacksaw
- Deburring File
- Pencil.



SYSTEM PARTS:

Verify quantities of the parts against the packing slip. Your system should include:

- ColorBrackets with Foam Gaskets
- SnoBar or Colorbar
- Self-Drilling Tek Screws
- (3) Self Drilling Screws Per Tall ColorBracket or (4) Self Drilling Screws Per Small ColorBracket
- End Caps (only for SnoBar)
- Splice Connectors (only for ColorBar)
- Optional Ice Stoppers (If ordered with your project).

INSTALLATION TIPS:

- Never extend the bar more than 3” past the last clamp 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 cutoffs until the job is complete

Short sections of SnoBar or ColorBar must span at least two seams. In a continuous run of SnoBar or ColorBar, cutting of the bar may be required to avoid having a short bar at one seam. A short bar clamped to a single seam is not acceptable and will fail.

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. Always follow the manufacturer’s project specific design recommendation 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. Based on the layout, measure 12” to 18” up the panel from the eave (if there is an overhang, place the first row over the load bearing wall). Mark with a pencil at the farthest panel valley starting at the left. Then mark the same distance from the eave on the next panel valley just short of the length of the bar you are installing. For example: If installing a 4' section of bar you would want the 2nd mark to be just short of 4' from the 1st mark.



2. Apply foam gasket and set the first ColorBracket onto the furthest left seam of the bar section at your 1st pencil mark. The (6) holes in the Tall ColorBracket should be facing upslope using 3 screws in an s-pattern. The Small ColorBracket, requires (4) 3” Screws mounted on top of the ribs in a square pattern using the outside holes. Make sure that each screw is fully embedded in to structural material below. Repeat this step to install a second ColorBracket on the furthest right seam as marked in Step 1.



Installation, Cont'd.

3. Place a full section of bar down into both ColorBrackets (do not attach bar to ColorBrackets 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 ColorBrackets. SnoBar/ColorBar should never extend more than 3" past the last ColorBracket at either end of a continuous row. Starting at the farthest left ColorBrackets, 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.

7. When the optional IceStoppers are installed with the tall ColorBracket, the short leg of the IceStopper should be facing upslope with the Tek screw holes lining up with the upslope side of the bar. Hold tightly to the upslope side of the bar and install (2) Tek Screws while applying downward pressure. For Icestopper placement, always follow the recommend layout as provided by the manufacturer. If you did not order IceStoppers with your system and you experience snow and ice sliding under the bars, they can easily be added in the future.

8. **For SnoBar**, butt joints should always be centered in the panel valley with no more than a 2" gap between butted ends. Some panels require the bars to be cut to obtain correct seam spacing.



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 ColorBrackets, as long as splice connectors are properly installed with 1 Tek screw each. ColorStrips can be installed on the face of the ColorBar and in front slot of the Tall ColorBracket.



Installation, Cont'd.

9. 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 not sure how to space additional rows, please call us at 800-766-5291.

For example, if you have a 31'-6" panel 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 set screw torque, improper panel attachment, improper roof system installation, or inadequate design 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 just 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 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 gets done correctly the first time. Please give us a call at 800-766-5291 or send an email to support@snojax.com with any questions.
6. Finally, no matter how well a system is designed, Mother Nature will throw more at us than we have considered, such as drifting, ice, unusual 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.

