

Specifications for Membrane Mounted SnoBar/ColorBar Snow Retention System

PART 1 – GENERAL

1.1 SUMMARY:

A. WORK INCLUDES:

1. Snow retention system that mechanically fastens to Membrane/TPO roofing.
2. Provide all necessary components: Membrane Mounts/ColorBrackets, Bars, Set Screws, Tek Screws, End Caps and optional IceStoppers.

B. RELATED SECTIONS:

1. Master Format™ 2004 Section 07 41 13: Preformed Metal Roofing
2. Master Format™ 2004 Section 07 60 00: Flashing and Sheet Metal
3. Master Format™ 2004 Section 07 40 00: Metal Roof Panels
4. Master Format™ 2004 Section 07 61 01: Sheet Metal Roofing
5. Master Format™ 2004 Section 07 50 00: Membrane Roofing

1.2 SYSTEM DESCRIPTION:

A. COMPONENTS:

1. SnoBar System consisting of Membrane Mounting Plate, ColorBrackets, 16 Ga. Galvanized Steel or Stainless Steel 1" Square Bars. ColorBar System consisting of Membrane Mounting Plate, extruded 6061-T6 aluminum ColorBar that accepts 2" wide 24 Ga. Or 22 Ga. Color strip in face of it.
2. Set screws to be "cup tipped", Stainless Steel, 3/8" diameter, torqued to 90 in/lbs.
3. Bar to be attached to mounts with two (2) corrosion protected #10 tek screws.
4. Plastic end caps to be installed in each end of SnoBar and Splice Connectors to be used at ends of ColorBar.
5. *Optional:* Aluminum "Ice Stopper" centered on panel and mounted perpendicular to roof panel to prevent sliding ice. Use over pedestrian areas or on areas needing additional protection.

B. DESIGN REQUIREMENTS:

1. Membrane/TPO mounts must be mechanically fastened above or below the membrane with flashing.
2. Snow retention system should have a minimum performance of 500# per linear foot of bar without deflection and 500# per mount.
3. Based on snow load, climatic conditions, size of the roof area; multiple rows of SnoBar/ColorBar may be needed.
4. Provides attachment without voiding Membrane/TPO warranty.
5. **SUBSTRATE CRITERIA:** All loads held by the SnoBar/ColorBar will be transferred to the roof mounts; therefore proper mechanical attachment to substrate/structure is necessary to ensure long term performance of the system. It is important to design new structures or assess the existing structure to make sure it can withstand retained snow loads. (*Architect Note: Add this requirement to Membrane Roofing Section*)

1.3 SUBMITTAL: – Submit Manufacturer's specifications, standard detail drawings and installation instructions.

1.4 QUALITY ASSURANCE: – Installer to be experienced in the installation of snow retention systems for a period of not less than 5 years in the area of the project.

1.5 DELIVERY/STORAGE/HANDLING: – Inspect material upon delivery and order replacements for any missing or defective items. Keep material dry, covered and off the ground until installed.

PART 2 – PRODUCTS

2.1 MANUFACTURER:

Action Manufacturing, LLC
Exclusively Distributed by
IceBlox, Inc. d.b.a.
Snoblox-Snojax

Phone:
(800) 766-5291
(717) 737-4398

Fax:
(800) 634-7906
(717) 697-6141

Online:
www.snojax.com
support@snojax.com

Warehouse:
671 Willow Street
Lemoyne, PA 17043

2.2 MATERIALS:

- A. Membrane mounts: One-piece, 12ga 304 Stainless Steel plate with 2 - 304 stainless steel studs for Colorbracket attachment. Plate measures 4"x6" and is designed to be mechanically fastened to structure with 6 screws.
- B. Bars: Specify a 16 Ga. Galvanized Steel Bar, 16 Ga. Stainless Steel Bar, or an extruded 6061-T6 aluminum ColorBar that accepts 2" wide 24 Ga. Or 22 Ga. ColorStrip in face of it.

2.3 FINISH: – (pick one of the following finishes)

- A. Powder Coat – Color to match or be similar to metal roof or as selected by architect
- B. Unpainted Mill Finish

PART 3 – EXECUTION:

3.1 EXAMINATION:

- A. Substrate: Inspect roof system to be properly attached and installed to withstand additional loadings incurred. Notify General Contractor of any deficiencies before installing SnoBar

3.2 INSTALLATION:

- A. Comply with architectural drawings for location and with Manufacturer's instructions for assembly, installation and erection.
- B. Mounts must be mechanically fastened in straight rows, spacing as directed by manufacturer's layout.
- C. All Set Screws torqued to 90 in/lbs. and rechecked annually.
- D. Refer to manufacturer's installation instructions <http://www.SnobarColorBar.com/installation-instructions/>.

3.3 WARRANTY

- A. SnoBar systems shall include free limited lifetime warranty on parts and finish for all systems following manufacturer's spacing/ installation recommendations.