

SECTION 07720
SNOW RETENTION SYSTEM
SPECIFICATION SHEET

PART 1 - GENERAL

1.1 SUMMARY

A. WORK INCLUDES:

1. Snow retention system that clamps directly to the standing seams without penetrating the roof system.
2. Coordinate with the installation of the metal roofing system to assure the proper fastening of the metal roof to the substructure.
3. Provide all necessary components: Clamps, Bars, Set Screws, Tek Screws, and End Caps.

B. RELATED SECTIONS:

1. Section 07410: Preformed Metal Roofing
2. Section 07600: Flashing and Sheet Metal

1.2 SYSTEM DESCRIPTION

A. COMPONENTS:

1. **SN*BAR™** System consisting of 12 Ga. stainless steel one piece clamps and 16 Ga. bars.
2. Set screws to be Stainless Steel, 3/8" diameter cup point.
3. Bar to be attached to clamp with two (2) corrosion protected #10 tek screws.
4. Plastic end caps to be installed in each end of bar.
5. *Optional:* Aluminum "Ice Stopper" centered in the middle of the panel to prevent sliding ice. Use over pedestrian areas or on areas needing additional protection.

B. DESIGN REQUIREMENTS:

1. Clamps must be used at every roof seam in roof areas needing protection.
2. Snow retention system should have a minimum performance of 500# per lineal foot of bar without deflection and 500# per clamp without significantly damaging the roof panel.
3. Based on snowload, climatic conditions, length of roof panel and width of panel; multiple rows of **SN*BAR™** may be needed.

C. METAL ROOFING AND SUBSTRATE CRITERIA:

1. Metal roofing must be a minimum of 24 ga. steel.
2. All loads incurred by the **SN*BAR™** will be transferred to the panels; therefore proper panel attachment to substrate/structure is necessary to prevent roof panels from sliding under snow load. It is important to design new structures or assess the existing structure to make sure that it can withstand retained snow loads. (*Architect Note: Add this requirement to Metal 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 metal roofing and 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

- A. **SN*BAR™** by Action Manufacturing, LLC, Englewood, CO (800) 711-9724

2.2 MATERIALS

- A. Clamps: 12 Ga. one-piece stainless steel clamps with stainless steel set screws used at every roof seam.
B. Bars: Specify a 16 Ga. Galvanized Steel Bar or 16 Ga. Stainless Steel bar.

2.3 FINISH – (pick one of the following finishes)

- A. Polane Plus Enamel - color to match any metal roof or as selected by Architect
B. Powder Coat – color to match or be similar to metal roof panel from wide range of standard colors.
C. KYNAR Powder Coat – color selected from **SN*BAR™** Standard colors. Comes with 20 yr. finish warranty.
D. Unpainted Stainless Steel - 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 **SN*BAR™**.

3.2 INSTALLATION

- A. Comply with architectural drawings for location and with Manufacturer's instructions for assembly, installation and erection.