

SECTION 077253 - SNOW GUARDS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Snow guard system for standing seam insulated metal roofing.

1.2 BUY AMERICAN REQUIREMENTS

A. Provide certificates to show that all products meet the following requirements.

1. American Iron and Steel (AIS)
2. Build America, Buy America Act

1.3 REFERENCES

- A. ASTM B209 – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- B. ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- C. SMACNA Architectural Sheet Metal Manual.
- D. Manufacturer's installation guidelines and recommendations.

1.4 ACTION SUBMITTALS

- A. Product Data: Manufacturer's technical data, installation instructions, and maintenance requirements.
- B. Shop Drawings: Indicate layout, placement, and attachment details.
- C. Samples: Manufacturer's standard color and finish samples.
- D. Warranty: Manufacturer's standard warranty for snow guard system.

1.5 QUALITY ASSURANCE

- A. Minimum of five years of experience in manufacturing snow guard systems.
- B. Installer Qualifications: Minimum of three years of experience in installing similar systems.

- C. Mock-Up: Provide a mock-up to demonstrate attachment method and appearance.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's original packaging.

PART 2 - Store materials in a dry location, elevated off ground, and protected from moisture and damage

2.1 SYSTEM DESCRIPTION

- A. Snow retention system designed to prevent sliding snow and ice from falling off roof surfaces and to evenly distribute snow loads across the roof.
- B. System shall be non-penetrating and clamp-mounted to standing seam panels.
- C. System shall be compatible with the profile and spacing of CFR insulated metal roof panels by Metl-Span.

2.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Snow guard system shall be capable of withstanding snow loads calculated in accordance with ASCE 7, as applicable to project location in Yakutat, Alaska.
- B. Thermal Movement: Accommodate thermal movement of roof panel system without compromising performance or causing damage to roofing.
- C. Corrosion Resistance: Materials shall be non-corrosive or coated to resist corrosion in coastal and high-humidity environments.
- D. Load Testing: Provide evidence of product testing for shear and tensile strength capacities of clamp attachments to standing seam panels.

2.3 Snow Guards:

- 1. Two-pipe aluminum snow retention system.
- 2. Non-penetrating attachment for standing seam insulated metal roofing.
- 3. Clamp-on system designed for CFR by Metl-Span panels.
- B. Accessories:
 - 1. Fasteners and clamps as recommended by manufacturer.

2. Color-matched finish for visibility reduction, if required.

2.4 FINISHES

- A. Mill finish aluminum or powder-coated finish as selected by Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify roof panel conditions are suitable for installation. B. Report any deficiencies to Architect before proceeding.

3.2 INSTALLATION

- A. Install snow guards according to manufacturer's written instructions.
- B. Position and attach units to roof panel seams without penetrating the panel.
- C. Secure clamps and pipes to ensure uniform alignment and structural integrity.
- D. Inspect completed installation for proper attachment and performance

3.3 CLEANING AND PROTECTION

- A. Remove any debris or materials from roof after installation.
- B. Protect installed snow guards from damage until final acceptance.

END OF SECTION 077253

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