

SECTION 07 72 53

ROOF SNOW GUARDS & FLUE / VENT PIPE GUARDS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Roof Snow Retention System and Fastening Devices for prefinished standing seam metal roofs and flue vent pipes

1.2 RELATED SECTIONS

- A. Section 07 16 15-Standing Seam Metal Roof Panels (*Morrin*)
- B. Section 07 62 00 - Sheet Metal Flashing and Trim.

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM B85 - Standard Specification for Aluminum-Alloy Die Castings.
 - 2. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Design Requirements for Systems:
 - 1. Provide at locations indicated on the Drawings.
 - 2. System Design: Snow retention system as designed by the manufacturer.
 - 3. Components of the system supplied by the same manufacturer.
 - 4. Accessories and Fasteners: Accessories and fasteners capable of resisting design forces in accordance with local building code.

1.5 SUBMITTALS

- A. Comply and submit under provisions of Section 01 33 00.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Prepared specifically for this project; showing dimensions of metal roof snow guards and accessories, fastening details and connections and interface with other products.
- D. Verification Samples: For each product specified, two samples, minimum size for extrusions 6 inches (152 mm) long, representing actual product, color, and patterns.
- E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in production of Metal Roof Snow Guard Products of the type specified with a minimum 5 years documented experience.
- B. Installer Qualifications: Company specializing in installation of Metal Roof Snow Guard Products of the type specified with a minimum 3 years documented experience.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components to job site properly packaged to provide protection against transportation damage.
- B. Store products in manufacturer's unopened packaging in a clean, dry location until ready for installation.
- C. Stack all materials to prevent damage and to allow for adequate ventilation.

1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.9 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturers: Dynamic Fastener Service Incorporated, which is located at: 9911 E. 53rd Street; Kansas City, MO 64133; ASD Toll Free Tel: (800) 821-5448; Tel: (816) 358-9898; Fax: (816) 358-9899; Email: jerodwebber@dynamicfastener.com, stevebutler@dynamicfastener.com; Web: www.dynamicfastener.com.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 ROOF SNOW GUARDS

- A. Basis of Design: DYNA-GUARD; Snow Retention System for metal roofs as supplied by Dynamic Fastener Service Incorporated.
 - 1. New construction and retrofitting of existing construction.
 - 2. Material: 6005A-T6 high tensile aluminum.
 - 3. Extrusions: Comply with ASTM B85 and ASTM B221.
 - 4. DYNA-GUARD:
 - a. Lengths: 96 in (2438 mm). T-shaped profile.
 - b. Hole Spacing: None.
 - c. 1.)Field-Drilled Hole Requirements: 7/16 in (11 mm) on appropriate centers.
 - 5. SNO-DAMS: Inhibits ability of snow and ice to slide under the DYNA-GUARD.
 - a. Slides onto the DYNA-GUARD from either end. One SNO-DAM between every seam is required.
 - b. Width: 3 in (76 mm).
 - c. SNO-DAM Profile: As required for standing seam depth.
 - 6. DYNA-CLAMPS: Non-ferrous, non-piercing clamp for attachment to standing seam roofs.
 - a. Set Screws: Round-point stainless steel accommodating different profiles of standing seam metal roofs and won't pierce the panel.
 - b. Bolts: English standard 5/16-18 bolt (No metric bolts available).
 - c. DYNA-CLAMP Profile: DC Series. Type as required for prefinished metal roof panel standing seam profile
 - 7. DYNA-CLIPS: Provide if required for anchoring Dyna-Guard to Dyna-Clamp.
 - 8. DYNA-SPLICE: Provide where splicing Dyna-guard sections together.
 - 9. Aesthetic Sheet Metal Strips: Supplied by others for installation into the DYNA-GUARD T-shaped profile.
 - a. Prefinished strips of same metal material as the roof with same color.
 - b. Width of Strips: 2 in (51 mm).
 - c. One strip per length of DYNA-GUARD Strips insert into DYNA-GUARD extrusion to help conceal the snow retention system.

2.3 ROOF FLUE AND VENT PIPE GUARDS

- A. Provide same product as selected snow guard.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation and the approved shop drawings.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with snow retention system manufacturer's instructions and approved shop drawings. Coordinate the installation with the manufacturer of the roof substrate to which it is installed.
- B. Attach using manufacturer's fasteners, spaced in accordance with approved shop drawings.
- C. Install extrusions in such a manner that horizontal lines are true and level and vertical lines are plumb.
- D. Do not allow components to come into contact with dissimilar materials.
- E. Inspect each clamp and component to ensure assembly is intact and secured to the roofing per manufacturer's instructions.
- F. Set guard at 3'-0" up roof from eave.

3.4 INSTALLATION –F LUE ANDVENT PIPE GUARDS

- A. Install flue/vent pipe guards at all flue and vent pipes where they penetrate metal roof. Span at least two seams of roof panels uphill from penetration.
- B. Set guard at 1'-0"-2'-0" above flue or vent pipe.

3.5 PROTECTION AND CLEANING

- A. Protect installed products until completion of project.
- B. Clean any grease, finger marks or stains from the panels per manufacturer's recommendations.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION