

PART 1 **GENERAL**

1.1 **SUMMARY**

- .1 Work includes:
 - .1 Snow retention system that screws through roof membrane into structure.
 - .2 Coordinate with the installation of the roofing system to assure the proper fastening of the metal roof to the substructure.
 - .3 Provide all necessary components: brackets, tubes, #14 stainless steel tapping screws with s.s. washer and neoprene washer, complete with pilot drill bit.

1.2 **RELATED SECTIONS**

- .1 Section 01 33 00 – Submittal Procedures
- .2 Section 07 31 13 – Asphalt Shingles.
- .3 Section 07 62 00 – Sheet Metal Flashing and Trim.

1.3 **SYSTEM DESCRIPTION**

- .1 Design requirements:
 - .1 Bracket spacing and loading is based on specific project design.
 - .2 Based on snow load, climatic conditions, spacing of structural supports; multiple rows of snow guards may be needed.
 - .3 All loads incurred by the snow guards will be transferred to the substructure (sheathing, wood trusses, plywood, etc.). Proper fastener attachment to substrate/structure is necessary to prevent the snow retention system from failing under snow conditions.

1.4 **SUBMITTAL**

- .1 Submit manufacturer's specifications, detail shop drawings and installation instructions in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Shop drawings shall be stamped by a professional engineer licensed in the Province of Newfoundland and Labrador.

1.5 **QUALITY ASSURANCE**

- .1 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.

1.6 **DELIVERY/STORAGE/HANDLING**

- .1 Inspect material upon delivery and order replacements for any missing or defective items. Keep material dry, covered and off the ground until installed.
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PART 2 **PRODUCTS**

2.1 **MATERIALS**

- .1 Aluminum-zinc die-casting brackets.
- .2 Galvalume steel tubes with swaged ends, 2440 mm, c/w end-of-row pins.
- .3 Stainless steel #14 tapping screws with s.s. and neoprene washers, c/w pilot drill bit.

2.2 **FINISH**

- .1 Enamel painted. color as selected by Departmental Representative.

PART 3 **EXECUTION**

3.1 **EXAMINATION**

- .1 Substrate: inspect roof system to be properly attached and installed to withstand additional loadings incurred. Notify General Contractor of any deficiencies before installing snow guards.

3.2 **INSTALLATION**

- .1 Comply with drawings for location and with manufacturer's shop drawings and instructions for assembly, installation and erection.