

**PART 1      GENERAL**

**1.1      RELATED SECTIONS**

- .1      Section 01 33 00 - Submittal Procedures.
- .2      Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .3      Section 06 10 00 - Rough Carpentry.
- .4      Section 07 31 13 – Asphalt Shingles.
- .5      Section 07 62 10 - Sheet Metal Flashing and Trim.
- .6      Section 07 92 00 - Joint Sealants.

**1.2      REFERENCES**

- .1      The Aluminum Association Inc. (AA)
  - .1      Aluminum Sheet Metal Work in Building Construction.
  - .2      AA DAF45, Designation System for Aluminum Finishes.
- .2      American Society for Testing and Materials (ASTM International)
  - .1      ASTM A792/A792M-10, Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
  - .2      ASTM D523-14, Standard Test Method for Specular Gloss.
  - .3      ASTM D822-13, Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.
- .3      Canadian General Standards Board (CGBS)
  - .1      CAN/CGSB-37.5-M89, Cutback Asphalt Plastic Cement.
- .4      Canadian Standards Association (CSA International)
  - .1      CSA B111-1974(R3003), Wire Nails, Spikes and Staples.

**1.3      SUBMITTALS**

- .1      Submit duplicate 50 x 50 mm samples of each type of sheet metal material, colour and finish.
- .2      Clearly indicate bending, folding, jointing, fastening installation details.

**1.4      DELIVERY AND STORAGE**

- .1      Store products off ground and under cover in a dry, well ventilated enclosure.
  - .2      Stack pre-formed material in manner to prevent twisting, bending and rubbing.
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- .3 Provide protection for galvanized and pre-coated surfaces.
- .4 Prevent contact of dissimilar metals during storage. Protect from acids, flux, and other corrosive materials and elements.

## **PART 2      PRODUCTS**

### **2.1            MATERIALS**

- .1 Sheet aluminum 0.64 mm thick. Color as selected by Departmental Representative.
- .2 Trough size: 125 mm wide.
- .3 Trough Supports: continuous aluminum with a perforated aluminum cover that covers the complete trough to prevent debris from getting stuck in the trough and downpipe.
- .4 Downpipes: 0.64 mm thick aluminum.
- .5 Downpipe straps: 0.72 mm thick aluminum.
- .6 Sealant: As per Section 07 92 00 – Joint Sealants.
- .7 Elbows and tees: aluminum same as trough.

### **2.2            FABRICATION**

- .1 Fabricate sheet aluminum work in accordance with Aluminum Association Aluminum Sheet Metal Work in Building Construction.
- .2 Fabricate eavestrough in continuous length up to a maximum length of 12 metres.
- .3 Form eavestrough to an Ogee profile, 125 mm wide and a 305 mm girth.

## **PART 3      EXECUTION**

### **3.1            INSTALLATION**

- .1 Install trough supports/debris catchers to provide a continuous slope to drain all water from the trough.
  - .2 Cut opening in the trough to receive the downpipes.
  - .3 Install the trough and snap in to the supports (no exposed screws or nails permitted). Install elbows and tees as required. Provide for expansion joints to prevent warping where required.
  - .4 Install aluminum downpipes to a distance of 1.5 metres from the grade. Install aluminum straps 1200 mm o.c designed to match the pipe profile and fasten to building with aluminum or stainless steel screws.
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- .5 Install sewer type downpiping from the aluminum downpiping to a point 300 mm above the grade. Install aluminum straps designed to suit the pipe profile and fasten to the wall with aluminum or stainless steel screws.
- .6 Install sealant as required to ensure all joints are watertight.
- .7 When work is completed, provide a water test to ensure there are no leaks and that all the water runs from the trough.

### **3.2 CLEANING**

- .1 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.
- .2 Leave works areas clean, free from grease, finger marks and stains.