

## PART 1 - GENERAL

### 1.1 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 A653/A653M, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - .2 ASTM A792/A792M, Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
  - .3 ASTM D523, Standard Test Method for Specular Gloss.
  - .4 ASTM D822, 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, Cutback Asphalt Plastic Cement.
- .4 Canadian Standards Association (CSA International).
  - .1 CSA B111, Wire Nails, Spikes and Staples.

### 1.2 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.
- .3 Sustainable Design Submittals:
  - .1 LEED Canada submittals: in accordance with Section 01 35 21 - LEED Requirements.

- 1.3 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.
  - .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.
  - .8 Splash pad: 600 x 600 x 50 mm thick precast concrete patio slab.

- 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.
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2.2 FABRICATION .3 Form eavestrough to an Ogee profile, 125 mm  
(Cont'd) 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 300 mm from the grade. Install aluminum straps 1200 mm o.c designed to match the pipe profile and fasten to building with stainless steel screws.
  - .5 Install sealant as required to ensure all joints are watertight.
  - .6 Place splash pad.
  - .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.