

Part 1 General

1.1 SECTION INCLUDES

- .1 Materials and installation of preformed metal eaves troughs and downpipes.

1.2 RELATED SECTIONS

- .1 Section 01 33 00 – Submittal Procedures
- .2 Section 01 61 00 – Common Product Requirements
- .3 Section 01 74 19 – Construction/Demolition Waste Management And Disposal
- .4 Section 07 46 13 – Preformed Metal Siding
- .5 Section 07 92 10 – Joint Sealing

1.3 REFERENCES

- .1 American National Standards Institute (ANSI):
 - .1 ANSI/ASME B18.6.4-1998(R2005) – Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws
- .2 Canadian General Standards Board (CGSB):
 - .1 CAN/CGSB-93.1-M85 – Sheet Aluminum Alloy, Prefinished, Residential
- .3 Canadian Standards Association (CSA International):
 - .1 CSA B111-1974(R2003) – Wire Nails, Spikes and Staples

1.4 SUBMITTALS

- .1 Submit samples and product data in accordance with Section 01 33 00.
- .2 Samples.
 - .1 Submit duplicate samples of eaves troughs and downpipe components. Samples to be representative of material, finish, color and profile.
- .3 Manufacturer's Data.
 - .1 Submit manufacturer's printed product literature, specifications and data sheets.
 - .2 Submit manufacturer's installation instructions.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, handle, store and protect materials in accordance with Section 01 61 00.
- .2 Provide and maintain dry, off-ground weatherproof storage.

1.6 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials in accordance with Section 01 74 19.
- .2 Divert used metal cut-offs from landfill by disposal into the on-site metals recycling bin.
- .3 Divert reusable materials for reuse at nearest recycling facility.
- .4 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, and other packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .5 Unused sealant material must be disposed of at an official hazardous material collection.
- .6 Do not dispose of unused sealant material into sewer system, onto ground or in other location where it will pose health or environmental hazard.

Part 2 Products

2.1 COMPONENTS

- .1 Aluminum Sheet: factory prefinished to CAN/CGSB-93.1, supplemented and amended as follows:
 - .1 Colour: white to match existing, with final color selection by Departmental Representative.
 - .2 Gloss: medium to match existing.
 - .3 Pattern: plain surface to match existing.
 - .4 Thickness: minimum 0.61 mm base metal thickness.

2.2 ACCESSORIES

- .1 Cleats: of same material, and temper as sheet metal, minimum 50 mm wide to match existing; thickness same as sheet metal being secured.
- .2 Fasteners:
 - .1 Nails to CSA B111; purpose made eaves trough spikes to suit application; galvanized steel construction, with prepainted heads to match eaves troughs.
 - .2 Screws: to ANSI B18.6.4; purpose made to suit application; stainless steel or cadmium plated steel construction, with prepainted heads to match downpipes.
- .3 Sealant: white color silicone to requirements specified in Section 09 92 10.

2.3 FABRICATION

- .1 Form eaves troughs and downpipes from prefinished sheet aluminum.
- .2 Form eaves troughs 100 mm size using continuous rolling process, and in ogee profile to match existing.

- .3 Form downspouts corrugated, 75 mm in size and rectangular in profile, to match existing. Form elbows to match existing.

Part 3 Execution

3.1 INSTALLATION

- .1 Install eaves troughs secure to building at maximum 750 mm on center with eaves trough spikes through spacer ferrules, to match existing.
 - .1 Slope to downpipes.
 - .2 Tie new eaves troughs into existing eaves troughs, and seal watertight. Use screws to make connections.
 - .3 Make transitions with existing eaves troughs smooth and uniformly sloping to downpipes. If necessary, remove existing and reinstall to provide smooth transitions and slopes.
 - .4 Close off ends and seal watertight.
 - .5 Install strainers at downpipes.
- .2 Install downpipes secure in place, to match existing.
 - .1 Install with elbows back to wall, over masonry wainscoting and out to drain.
 - .2 Secure downpipes to wall with straps at 1800 mm on centre, minimum two straps per downpipe.
 - .3 Use screws to make all component connections.
 - .4 Install plumb.

END OF SECTION