

Part 1 General

1.1 SECTION INCLUDES

- .1 Section includes the fabrication, supply and installation of sheet metal flashing in profiles shown on drawings.

1.2 RELATED SECTIONS

- .1 Section 07 27 00 – Air Barrier.
- .2 Section 07 61 00 – Metal Siding.

1.3 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM D523-14, Standard Test Method for Specular Gloss.
 - .2 ASTM D822/D822M-13, Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.
- .2 Canadian Roofing Contractors Association (CRCA)
 - .1 Roofing Specifications Manual 2011.

1.4 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Samples:
 - .1 Submit duplicate 12” long samples of each type of sheet metal material, finishes and colours.

1.5 PRE-INSTALLATION MEETING

- .1 Convene pre-installation meeting one week prior to beginning work of this Section and on-site installations. Agenda for meeting to include:
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordinate with other building subcontractors.
 - .4 Review manufacturer's installation instructions and warranty requirements.
- .2 Co-ordinate pre-installation meeting with trades of the following sections:
 - .1 Section 07 27 00 – Air Barrier.
 - .2 Section 07 61 00 – Metal Siding.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.

Part 2 Products

2.1 PREFINISHED STEEL SHEET

- .1 Prefinished steel with factory applied polyvinylidene fluoride.
 - .1 Class F1S.
 - .2 Colour: HMP or Series 8,000. Colour selected by the City from manufacturer's standard range.
 - .3 Specular gloss: 30 units +/- in accordance with ASTM D523.
 - .4 Coating thickness: not less than 22 micrometres.
 - .5 Resistance to accelerated weathering for chalk rating of 8, colour fade 5 units or less and erosion rate less than 20 % to ASTM D822 as follows:
 - .1 Outdoor exposure period 2500 hours.
 - .2 Humidity resistance exposure period 5000 hours.

2.2 ACCESSORIES

- .1 Cleats: of same material, and temper as sheet metal, minimum 50 mm wide. Thickness same as sheet metal being secured.
- .2 Fasteners: as shown on drawings.
- .3 Washers: of same material as sheet metal, 1 mm thick with rubber packings.
- .4 Touch-up paint: as recommended by prefinished material manufacturer.

2.3 FABRICATION

- .1 Fabricate metal flashings and other sheet metal work in accordance with applicable CRCA 'FL' series details and as shown on Drawings.
- .2 Strengthen free edges by a fold at least 0.5 inches wide, set out slightly and presenting a straight line and neat finish.
- .3 Form pieces in eight feet maximum lengths.
 - .1 Make allowance for expansion at joints.
- .4 Hem exposed edges on underside 0.5 inches.
 - .1 Mitre and seal corners with sealant.
- .5 Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.
- .6 Apply isolation coating to metal surfaces to be embedded in concrete or mortar.
- .7 Provide minimum four inch overlap in flashing sections.
- .8 Grind corners and edges to eliminate sharp edges.

2.4 METAL FLASHINGS

- .1 Form flashings, copings and fascias to profiles shown on Drawings of 22 gauge prefinished steel.

2.5 CAP FLASHINGS

- .1 Form metal cap flashing of 22 gauge sheet metal in accordance with CRCA FL series details.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

- .1 Install sheet metal work in accordance with CRCA FL series details and as shown on Drawings.
- .2 Use concealed fastenings except where approved before installation.
- .3 Provide underlay under sheet metal.
 - .1 Secure in place and lap joints 4 inches.
- .4 Lock end joints and caulk with sealant.
- .5 Turn top edge of flashing into recessed reglet or mortar joint minimum of 25 mm. Lead wedge flashing securely into joint.
- .6 Caulk flashing at reglet and cap flashing with sealant.

3.3 CLEANING

- .1 Proceed in accordance with Section 01 74 10 - Cleaning.
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.
- .3 Leave work areas clean, free from grease, finger marks and stains.

END OF SECTION