

PART 1 - GENERAL

1.1 Related Requirements

- .1 Section 06 10 00 - Rough Carpentry: Wood cants and curbs.
- .2 Section 07 52 00 - Modified Bituminous Membrane Roofing.
- .3 Section 07 92 10 - Joint Sealing.

1.2 References

- .1 ASTM International (ASTM).
  - .1 ASTM A653/A653M-13, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - .2 ASTM A924/A924M-13, Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
  - .3 ASTM C920-14, Specification for Elastomeric Joint Sealants.
  - .4 ASTM F1667-13, Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.
- .2 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-37.5-M89, Cutback Asphalt Plastic Cement.
  - .2 CGSB 37-GP-9Ma, Primer, Asphalt, Unfilled, for Asphalt Roofing, Dampproofing and Waterproofing.

1.3 Definitions

- .1 Custom colours: colours not normally produced by the industry and have not been assigned a "QC" number.
- .2 Special colour range: colours produced by the industry that have been assigned a "QC" number, but are more costly to produce than "standard colour range".
- .3 Standard colour range: colours produced by the industry that are currently popular and/or cost effective, and have been assigned a "QC" number. Colour is independent of gauge of steel.

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|   | .4 | Stock colour range: colours stocked by an individual manufacturer for the gauge specified.              |
| 1.4 Action and Informational Submittals | .1 | Submit in accordance with Section 01 33 00 - Submittal Procedures.                                      |
|   | .2 | Submit duplicate 50 x 50 mm samples of each type of sheet metal material, colour and finish.            |
|   | .3 | Submit shop drawings for metal enclosure and scupper.   |
| 1.5 Delivery, Storage and Handling      | .1 | Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.  |
|   | .2 | Prevent contact of dissimilar metals during storage, and protect from corrosive materials and elements. |

PART 2 - PRODUCTS

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| 2.1 Metal Materials | .1 | Galvanized steel sheet: fabricated in accordance with ASTM A653/A653M, having a core of Grade 230 (33) steel; zinc-coated in accordance with ASTM A924/A924M to a Z275 designation; prefinished with polyester coating system.<br>.1 Thickness: 0.76 mm base thickness steel. |
| 2.2 Accessories     | .1 | Isolation coating: alkali resistant bituminous paint.   |
|                     | .2 | Asphalt primer: to CGSB 37-GP-9M.   |
|                     | .3 | Plastic cement: to CAN/CGSB-37.5-M.   |
|                     | .4 | Cleats/hook strip: of same material and temper as sheet metal, minimum 50 mm wide. Thickness same as sheet metal being secured.   |
|                     | .5 | Fasteners: to ASTM F1667, flat head roofing nails, of length and thickness suitable for flashing application; of same material as sheet metal.  |

- .6 Washers: of same material as sheet metal, 1.6 mm with rubber packings.
- .7 Exposed screws: zinc coated steel, head colour same as exterior sheet, dished steel/neoprene washer; 25 mm long.
- .8 Sealant: silicone, to ASTM C920, Type S, Grade NS, uses NT, G, M, A and O.

### 2.3 Finishes

- .1 Silicone modified polyester.
  - .1 Acceptable products: WeatherX by VicWest, Perspectra Series by Dofasco, Perspectra Series by Baycoat.
  - .2 Coating thickness: exposed surface 0.025 mm  $\pm$  0.002 mm; unexposed surface to have washcoat finish.
  - .3 Colour: as selected by Departmental Representative from custom range.

### 2.4 Fabrication

- .1 Fabricate metal flashings to profiles indicated.
- .2 Form pieces in 2400 mm maximum lengths. Make allowance for expansion at joints.
- .3 Hem exposed edges on underside 13 mm. Miter and seal corners with sealant.
- .4 Use flat lock seam joints, unless otherwise shown.
- .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.

## 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 flashings as detailed.
- .2 Use prefinished galvanized steel flashings where existing flashing was prefinished; aluminum flashings where existing flashings were aluminum.
- .3 Coat flanges of flashing with asphalt primer before embedding into roofing.
- .4 Nail flashing at 150 mm o.c.; stagger nails.
- .5 Use concealed fastenings except where approved before installation.
- .6 Provide lock seam joints for all flashing at 2400 mm sections and lock seam slip joints every 4800 mm. Provide lock seam joints at exterior corners. Apply sealant to completely fill joints.

3.3 Adjust and Clean

- .1 Clean all flashing surfaces after installation. Do not use solvents detrimental to roofing membrane or roofing components.
- .2 Remove all fasteners, metal clippings, etc., from roof surfaces and site.

END OF SECTION

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