

The Executed Agreement including General Conditions and Supplementary Conditions, Division 01, applicable Drawings and amendments are part of and are to be read in conjunction with this Section.

## PART 1 - GENERAL

### 1.1 REFERENCES

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- .1 American Society for Testing and Materials (ASTM)
  - .1 ASTM D523-14, Test Method for Specular Gloss
  - .2 ASTM D822/D822M-13, Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings
  - .3 ASTM F1667-11a, Driven Fasteners: Nails, Spikes, and Staples
- .2 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB 51.32-M77, Sheathing Membrane, Breather Type.
- .3 Canadian Roofing Contractors Association (CRCA).

### 1.2 SUBMITTALS

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- .1 Submit samples as per Section 01 33 00 Submittal Procedures.
- .2 Submit duplicate 50 x 50 mm samples of each type of sheet metal material, colour and finish.

## PART 2 - PRODUCTS

### 2.1 PREFINISHED STEEL SHEET FLASHING

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- .1 Prefinished steel, with factory applied silicone modified polyester.
  - .1 Class F1S.
  - .2 Specular gloss: 30 units +/- 5 in accordance with ASTM D523.
  - .3 Thickness: .76mm.
  - .4 Colour to match the existing substrate:
  - .5 Resistance to accelerated weathering for chalk rating of 8, colour fade 5 units, or less erosion rate less than 20% for ASTM D822
    - .1 Outdoor exposure 1000 hrs
    - .2 Humidity resistance 1000 hrs
  - .6 Ensure vertical leg and the sheet metal profile matches surrounding detailed flashing.

### 2.2 LEAD FLASHING (PARAPETS)

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- .1 Listed below, requirement to provide lead flashing system must match the existing building in design, material, thickness and colour.
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- .1 Type and thickness of lead sheet
  - .1 Lead sheet shall comply with the requirements of BS EN 12588 for lead and lead alloys-rolled lead sheet for building purposes.
- .2 Stainless steel clips
  - .1 Stainless steel clips should be cut from 50 mm wide fully annealed stainless steel strip of not less than 0.375 mm thickness. The strip should conform to BS EN 10088.
- .3 Screws
  - .1 Screws should be brass or stainless steel conforming to BS 1210 and not less than 20 mm long.
- .4 Underlays
  - .1 Non-woven needle punched polyester geotextile that has a weight of not less than 210/mm2 (+ or – 5%)

## 2.3 ACCESSORIES

- .1 Isolation coating: alkali resistant bituminous paint.
- .2 Underlay for metal flashing: dry sheathing to CAN/CGSB-51.32.
- .3 Sealants: as per Section 07 92 00.
- .4 Cleats: of same material as flashing specified, and temper as sheet metal, minimum 50mm wide. Thickness .76 mm.
- .5 Fasteners: of same material as sheet metal, to ASTM F1667, ring thread flat head roofing nails of length and thickness suitable for metal flashing application.
- .6 Washers: of same material as sheet metal, with rubber packings.

## 2.4 FABRICATION

- .1 Fabricate metal flashings and other sheet metal work in accordance with applicable CRCA 'FL' series details as indicated.
  - .2 Form pieces in 2400 mm maximum lengths. Make allowance for expansion at joints.
  - .3 Hem exposed edges on underside 12.7 mm. Miter and seal corners with sealant.
  - .4 Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.
  - .5 Apply isolation coating to metal surfaces to be embedded in concrete.
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### PART 3 - EXECUTION

#### 3.1                   INSTALLATION

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- .1     Use concealed fastenings except where approved before installation, fasteners installed at 600 mm o.c.
- .2     Provide underlay under sheet metal. Secure in place and lap joints 100 mm.
- .3     Counterflash bituminous flashings at intersections of roof with vertical surfaces and curbs. Flash joints using S-lock forming tight fit over hook strips.
- .4     Lock end joints and caulk with sealant.
- .5     Install surface mounted reglets true and level, and caulk top of reglet with sealant.
- .6     Insert metal flashing into reglets under cap flashing to form weathertight junction.
- .7     Caulk flashing at reglet cap flashing with sealant.
- .8     Cut triangle on diagonal joint to minimize cut joint.

#### 3.2                   LEAD FLASHING INSTALLATION

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- .1     Lengths not exceeding 1500 mm with end-to-end lap joints of not less than 100 mm, with a cover over the upstand of the roofing materials of not less than 75 mm.
- .2     The free edge of the flashing to be clipped with stainless steel clips at 600 mm o.c.

END OF SECTION

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