

**SECTION 07620
SHEET METAL FLASHING AND TRIM**

PART 1 - GENERAL

1.1 SUMMARY

- .1 Provide sheet metal flashing, trim and accessories for a complete installation.

1.2 RELATED SECTIONS

- .1 07290 Weather Restrictive Barrier.
- .2 07510 Membrane Roofing.
- .3 08530 Vinyl Windows.

1.3 REFERENCES

- .1 Reference Standards: Current edition at date of Contract Execution.
 - .1 ASTM A53/A53M-02 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
 - .2 ASTM A653/A653M-03 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .3 ASTM A792/A792M-02 Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
 - .4 ASTM B32-00e1 Standard Specification for Solder Metal.
 - .5 ASTM B209-02a Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 - .6 ASTM D4586-00 Standard Specification for Asphalt Roof Cement, Asbestos-Free.
 - .7 CSA B111-1974 Wire Nails, Spikes and Staples.
 - .8 SMACNA Architectural Sheet Metal Manual.

1.4 SYSTEM DESCRIPTION

- .1 Compatibility between metal flashings components is essential. Materials to be incorporated into the system shall be compatible.

1.5 SUBMITTALS

- .1 Submit in accordance with Section 01330 Submittal Procedures.
- .2 Samples: If requested by the Consultant submit samples of each type of sheet metal material, colour and finish in accordance with Section 01330.
- .3 Certification: Provide written certification that metal flashings will be installed to comply with S.M.A.C.N.A. and RCABC Guarantee Corp Standards.

1.6 QUALITY ASSURANCE

- .1 Perform work in accordance with applicable standards in Architectural Sheet Metal SMACNA Manual, and RCABC Guarantee Corp requirements.
- .2 Installers: With a minimum 3 years experience familiar with common roofing sheet metal applications.
- .3 Mock-up: Mock-up flashings with Related Sections indicated above.

1.7 DELIVERY, STORAGE AND HANDLING

- .1 Provide and maintain dry, off-ground weatherproof storage.
- .2 Remove in quantities required for same day use.
- .3 Indicate on sheet metal flashings or wrappings:
 - .1 Manufacturer's name and brand.

- .2 Compliance with applicable standards.
- .4 Deliver fasteners in boxes or kegs and keep in protective storage until used. Do not oil or grease.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Metal Flashing: 26 gauge galvanized steel, or 26 gauge pre-finished steel as indicated. Use 24 gauge at ground floor and where exposed to traffic. Colour to Consultant's selection from manufacturer's full range as indicated.
- .2 Flexible Membrane Flashing: Provide flexible membrane flashing as specified in Section 07290 Weather Resistive Barriers.

2.2 ACCESSORIES

- .1 Sealants: Provide in accordance with Section 07900 Sealants. Colour selected by Consultant.
- .2 Cleats: of same material, and temper as sheet metal, minimum 50 mm wide. Thickness same as sheet metal being secured.
- .3 Fasteners: of same material as sheet metal, to CSA B111, flat head roofing nails of length and thickness suitable for metal flashing application.
- .4 Washers: of same material as sheet metal, 2.3 mm thick with rubber packings.

2.3 FABRICATION

- .1 Fabricate metal flashings and other sheet metal work in accordance with S.M.A.C.N.A. standards.
- .2 Form pieces in 3 metre maximum lengths, 1 metre minimum.
- .3 Hem exposed edges on underside.
- .4 Form sections square, true, and accurate to size, free from distortion and other defects detrimental to appearance and performance.
- .5 Coat metal with protective paint coating where in contact with mortar, concrete or dissimilar metal.
- .6 Fabricate Sill Flashings with soldered or folded end dams in accordance with RCABC Guarantee Corp detail 8.3.5. Provide metal flashing with soldered end dams over window heads.

2.4 METAL FLASHINGS

- .1 Caulk perimeter flashings with specified sealant where necessary to make a proper seal.
- .2 At highly visible areas utilize particularly tight well crimped 'S' joints, lock joints and caulk end joints in flashing. Hem exposed edges of flashing a minimum of 12 mm for rigidity.
- .3 Provide flashings with edges turned to form a drip. Make proper allowance for expansion and contraction. Face clip flashings with concealed clips 600 mm on centres.
- .4 Carry face metal down exterior face a minimum of 100 mm or as otherwise detailed.
- .5 Provide metal base and cap flashings to extend to within 25 mm of roof surface.

2.5 SCUPPERS

- .1 Scuppers: Standard copper scuppers as manufacturer by Menzies Metals 1-800-665-8840 or 604-530-0712, F: 604-530-8482 or approved alternative.
- .2 Fabricate as detailed. Provide watertight joints, hem exposed edges.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

- .1 Examine surfaces to receive metal flashing and trim with Installer present. Correct unsatisfactory conditions. Start of work indicates acceptance of conditions.
- .2 Ensure flexible membrane flashings are installed on surfaces to receive metal flashings.

3.2 INSTALLATION

- .1 Use concealed fastenings except where approved prior to installation by Consultant.
- .2 Provide underlay sheet under flashings.
- .3 Counterflash bituminous flashings at intersections of roof with vertical surfaces and curbs. Flash joints using S-lock seams on vertical and horizontal joints. Form tight fit over roof cleats.
- .4 Lock end joints and caulk with sealant.
- .5 Where surface mounted reglets used, mounted true and level, caulk top of reglet.
- .6 Insert metal flashings into reglets and under cap flashings to form weathertight junction.
- .7 Turn top edge of flashing into recessed reglet or mortar joint a minimum 25 mm. Use lead wedge to secure in joint.
- .8 Caulk flashing joints with sealant.
- .9 Install scuppers to locations as shown, in accordance with RCABC Guarantee Corp details, with roof membrane mopped over scupper flanges, turned up at sides and cut out of cant strips.

END OF SECTION