

SECTION 07 60 00

FLASHING AND SHEET METAL

PART 1 GENERAL

1.01 QUALITY ASSURANCE

- A. In the absence of other information, standards of the following organizations shall apply.
 - 1. Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Architectural Sheet Metal Manual, current edition.
 - 2. National Roofing Contractors Association (NRCA) roofing and Waterproofing Manual, current edition.

1.02 WARRANTY

- A. Manufacturer's 20-year paint film warranty on prefinished sheet metal.
- B. If pre-manufactured metalwork is used, include under provisions of roof membrane manufacturer's total system warranty.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Sheet metal gauges or thicknesses shall be as recommended by SMACNA manual for specific exposed face girths.
- B. Continuous clips shall be fabricated of material one gauge heavier than connecting component.

2.02 MATERIAL SPECIFICATIONS

- A. Aluminum
 - 1. Alloy and temper 3003-H14
 - 2. Minimum gauge .040"
 - 3. Only aluminum or stainless steel fasteners shall be used with aluminum metal work.
- B. Copper
 - 1. Minimum 16 oz.
 - 2. Only copper or copper alloy fasteners shall be used with copper metal work.
 - 3. Copper metal work shall be soldered using 50/50 solder and neutralize flux after soldering.
- C. Galvanized steel
 - 1. G-90 material
 - 2. Minimum 24 gauge
- D. Kynar prefinished steel or aluminum
 - 1. Pre-finished steel is preferable to pre-finished aluminum, due to steel's lower coefficient of expansion and contraction.
 - 2. Sheet steel shall be minimum 24 ga. Sheet aluminum shall be minimum .040".

2.03 FASTENERS

- A. Corrosion resistant fasteners as appropriate for each substrate.
- B. Where fasteners are exposed, provide stainless steel, watertight, EPDM sealing washers.
- C. Continuous metal cleats are preferred for securing counterflashing.
- D. 12" o.c. maximum spacing.

- E. Conceal fasteners to the greatest extent possible; limit exposed fasteners to vertical surfaces.
- F. Nylon or plastic anchors are not approved.

2.04 OTHER MATERIALS

- A. Membrane Closure/Cover: Sheet waterproofing underlayment at parapets, expansion joints, control joints, platform curbs, etc.
- B. Sealants and Related Accessories: See standard Section 07 92 00.

2.05 PRE-MANUFACTURED ROOF EDGE SYSTEM

- A. Pre-manufactured system of snap-on fascia covers, anchor bars, fasteners, factory fabricated mitered inside and outside corners, and accessories.
- B. Manufacturer approved by the roof membrane manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Locate expansion joints within 2' of corners and intersections and maximum 15' spacing elsewhere (10' preferred). Break counterflashing, coping cap, edge metal sections, and similar sheet metal constructions where they cross building expansion joints.
- B. Adjoining coping cap and gravel stop sections shall be joined with the use of splice plates or cover plates, with full sealant beads between plates and sheet metal flashing.

3.02 FABRICATION

- A. All exposed edges of cut sheet metal shall be hemmed 1/2" minimum.
- B. Slightly over-break counterflashing as required to provide spring tension against base flashing.
- C. Fold and return counterflashing at exposed ends, to provide fully closed, neatly finished ends.
- D. Maintain continuity at corners and jogs.
- E. End dams with overlapped and sealed corners are required at terminations and transitions.
- F. Locate seams above highest anticipated water level.

3.03 DISSIMILAR METALS

- A. Dissimilar materials in contact, which are subject to electrolysis, shall be protected against such action prior to installation. Protective materials shall not be visible after installation. Protect metals by coatings recommended by manufacturer, or separated by felt, EPDM, or roof cement.

END OF SECTION 07 60 00