

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 07620

SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Pre Coated Galvanized Steel Gutters and downspouts.
- B. Counterflashings over base flashings and vent stacks.

1.02 QUALITY ASSURANCE

- A. Perform Work in accordance with the following:
 - 1. NRCA (National Roofing Contractors Association) - Roofing Manual.

1.03 STORAGE AND HANDLING

- A. Stack preformed and prefinished material to prevent twisting, bending, or abrasion, and to provide ventilation.

PART 2 PRODUCTS

2.01 SHEET MATERIALS (As required for conditions indicated on plans)

- A. Pre-coated Galvanized Steel: ASTM A446, Grade A, G90 gage core steel, shop pre-coated with modified silicone coating of selected color.
- B. Galvanized Steel: (If used) ASTM A446, Grade A, G90; 24 gage core steel.
- C. Aluminum Sheet: ASTM B209, 3003 alloy, H14 temper; mill embossed shop precoated in color selected by Architect.
- D. Copper: (If used) ASTM B370, cold rolled ; 16 oz/sq ft thick; natural finish.
- E. Stainless Steel: (If used) AISI Type 302/304, complying with ASTM A 167, 2D annealed finish, soft, except where harder temper required for forming performance; 0.0156 inch thick (28 gage) except as otherwise indicated.

2.02 ACCESSORIES

- A. Fasteners: Same material and finish as flashing metal, with soft neoprene washers.
- B. Gutter and Downspout Anchorage Devices: SMACNA requirements.
- C. Gutter Supports: Brackets, Straps, Spikes and ferrules.
- D. Downspout Supports: [(See plans for Downspout decorative copper straps, match original historic design as indicated.)]
- E. Underlayment: No. 15 asphalt saturated roofing felt.
- F. Metal Primer: As called for by manufacturer.

- G. Protective Backing Paint: Zinc chromate alkyd.
- H. Slip Sheet: Rosin sized building paper.
- I. Sealant: Acrylic type, specified in Section 07900.
- J. Bedding Compound: Rubber-asphalt type.
- K. Plastic Cement: Asphaltic base cement.
- L. Reglets: Surface mounted; face and ends covered with plastic tape.

2.03 COMPONENTS

- A. Gutters: Profile as called for in plans.
- B. Downspouts: Profile as called for in plans.
- C. Accessories: Profiled to suit gutters and downspouts.

2.04 FABRICATION

- A. Form components true to shape, accurate in size, square, and free from distortion or defects. Form pieces in longest practical lengths.
- B. Fabricate cleats and starter strips of same material as sheet in widths as required, interlockable with sheet.
- C. Hem exposed edges on underside 1/2 inch; miter and seam corners. Fabricate vertical faces with bottom edge formed outward 1/4 inch and hemmed to form drip.
- D. Fabricate flashings to allow toe to extend 2 inches over roofing gravel. Return and brake edges.
- E. Form material with standing seam.
- F. Fabricate corners in one piece, in proper leg lengths; seam for rigidity, seal with sealant.
- G. Form sheet metal pans with upstand, and flanges. Fill pans watertight with plastic cement.

2.05 FINISH

- A. Backpaint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil .

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Verify roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set, cant strips and reglets in place, and nailing strips located.
- B. Verify membrane termination and base flashings are in place, sealed, and secure.

3.02 INSTALLATION

- A. Conform to drawing details and typical details included in NRCA manual.
- B. Install starter and edge strips, and cleats.
- C. Install surface mounted reglets. Seal top of reglets with sealant. Insert flashings to form tight fit. Seal flashings into reglets with sealant.
- D. Secure flashings, gutters and downspouts in place using concealed fasteners.
- E. Apply plastic cement compound between metal work and felt flashings.
- F. Fit components tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- G. Slope gutters 1/4 inch per foot minimum.
- H. Connect downspouts to downspout boots and storm sewer system. Grout or Seal connection watertight.
- I. Set splash pans under downspouts called for on plans and set as required.
- J. Seal metal joints watertight.

END OF SECTION - 07620