

SECTION 07620

SHEET METAL FLASHING AND TRIM

1 PART 1 GENERAL

1.1 SUMMARY

- A. Section includes flashings and counter flashings gutters and downspouts and fabricated sheet metal items.

1.2 SYSTEM DESCRIPTION

- A. Sheet Metal System: Utilize Standard SMACNA "Architectural Sheet Metal Manual Details."
- B. Gutters and Downspouts: Size components for rainfall intensity determined by storm occurrence of 1 in 5 years in accordance with SMACNA recommendations.

1.3 SUBMITTALS

- A. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, termination, and installation details.
- B. Samples: Submit (1) 6" samples of actual size of each type of formed metal flashing illustrating typical seam, external corner, internal corner, material, color, and finish.

1.4 WARRANTY

- A. Furnish five year manufacturer warranty for finishes.

2 PART 2 PRODUCTS

2.1 SHEET METAL FLASHING AND TRIM

- A. Fabricators: (Equal to)
 - 1. Cheney Flashing Co.
 - 2. Keystone Flashing Co.
 - 3. Metal-Era Inc.
 - 4. Ideal Roofing Co.
- B. Product Description: Flashing and sheet metal; prefinished, including gutters, downspouts, pads and accessories.

2.2 COMPONENTS

- A. Pre-Finished Galvanized Steel Sheet: ASTM A924/A924M, Grade A, or ASTM A653/A653M, G90 zinc coating; 24 gage core steel, shop pre-coated with PVDF (polyvinylidene fluoride) coating; color as selected from manufacturer's complete color line.

2.3 ACCESSORIES

- A. Fasteners: Galvanized steel with soft neoprene washers.
- B. Gutter and Downspout Anchorage Devices: In accordance with SMACNA requirements.
- C. Gutter Supports: Straps.
- D. Downspout Supports: Straps.
- E. Underlayment: No. 30 asphalt saturated roofing felt.
- F. Protective Backing Paint:: Zinc molybdate alkyd.
- G. Slip Sheet: Rosin sized building paper.
- H. Sealant: Exterior metal lap joint butyl or polyisobutylene sealant as specified in Section 07900.
- I. Plastic Cement: ASTM D4586, Type I.

2.4 FABRICATION

- A. Gutter Accessories: Profiled to suit gutters and downspouts.
- B. Splash Pads: Precast concrete type, of 12" x 12" and profiles indicated; minimum 3000 psi at 28 days, with minimum 5 percent air entrainment.
- C. Downspout Boots: Steel.
- D. Form components to shape indicated on Drawings, accurate in size, square, and free from distortion or defects. Form pieces in longest practical lengths.
- E. Fabricate cleats and starter strips of same material as sheet, to interlock with sheet.
- F. 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.
- G. Fabricate flashings to allow toe to extend 2 inches over roofing. Return and brake edges.
- H. Form material with standing seams, except where otherwise indicated. At moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- I. Fabricate corners in one piece, 18 inch long legs; seam for rigidity, seal with sealant.
- J. Form sheet metal pans with upstand, and flanges.

2.5 SHOP FINISHING

- A. PVDF (Polyvinylidene Fluoride) Coating: High Performance Organic Finish, AAMA 2604 or 2605; multiple coat, thermally cured fluoropolymer finish system.

3 PART 3 EXECUTION

3.1 EXAMINATION

- 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.

3.2 PREPARATION

- A. Paint concealed metal surfaces and surfaces in contact with dissimilar metals with protective backing paint to minimum dry film thickness of **15 mil**.

3.3 INSTALLATION

- A. Install starter and edge strips, and cleats.
- B. Install surface mounted reglets. Seal top of reglets with sealant. Insert flashings to form tight fit. Seal flashings into reglets with sealant.
- C. Secure flashings, gutters and downspouts in place using [concealed] fasteners.
- D. Apply plastic cement compound between metal work and felt flashings.
- E. Fit components tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- F. Install sheet metal pans surrounding roof penetrations. Fill pans watertight with plastic cement.
- G. Slope gutters **1/4 inch per foot** minimum.
- H. Connect downspouts to downspout boots system. Seal connection watertight.
- I. Set splash pads under downspouts.
- J. Seal joints watertight.
- K. Install snow guards as indicated on Drawings.

...END OF SECTION