

SECTION 07620

FLASHING AND SHEET METAL

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Pre-finished metal wall panels.
- B. Pre-finished sheet metal parapet cap flashing.
- C. Miscellaneous sheet metal accessories.

1.2 RELATED SECTIONS

- A. Section 07420 - Preformed Roofing.
- B. Section 07900 - Joint Sealers.
- C. Section 07311 - Asphalt Shingles.

1.3 REFERENCES

- A. ASTM D226 - Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
- B. ASTM D4586 - Asphalt Roof Cement, Asbestos-Free.
- C. FS O-F-506 - Flux, Soldering, Paste and Liquid.
- D. NRCA (National Roofing Contractors Association) - Roofing Manual.
- E. SMACNA - Architectural Sheet Metal Manual.

1.4 SUBMITTALS

- A. Submit under provisions of General Conditions.
- B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.
- C. Samples of sheet metal flashing, trim, and accessory items, in the specified finish. Where finish involves normal color and texture variations, include Sample sets composed of 2 or more units showing the full range of variations expected.

1. 8-inch - (200-mm-) square Samples of specified sheet materials to be exposed as finished surfaces.
 2. 12-inch - (300-mm-) long Samples of factory-fabricated products exposed as finished Work. Provide complete with specified factory finish.
- D. Qualification data for firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experience installer who has completed sheet metal flashing and trim work similar in material, design, and extent to that indicated for this project and with a record of successful in-service performance.
- B. Mockups: Prior to installing sheet metal flashing and trim, construct mockups indicated to verify selections made under Sample submittals and to demonstrate aesthetic effects as well as qualities of materials and execution. Build mockups to comply with the following requirements, using materials indicated for final unit of Work.
1. Locate mockups on-site in the location and of the size indicated or, if not indicated, as directed by Architect.
 2. Notify Architect one week in advance of the dates and times when mockups will be constructed.
 3. Demonstrate the proposed range of aesthetic effects and workmanship.
 4. Obtain Architect's approval of mockups before start of final unit of Work.
 5. Retain and maintain mockups during construction in an undistributed condition as a standard for judging the completed work.
 - a. When directed, demolish and remove mockups from Project site.

1.6 PROJECT CONDITIONS

- A. Coordinate work of this section with interfacing and adjoining work for proper sequencing of each installation. Ensure best possible weather resistance, durability of work, and protection of materials and finishes.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Section 01630.
- B. Stack preformed and prefinished material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.

- C. Prevent contact with materials which may cause discoloration or staining.

1.8 COORDINATION

- A. Coordinate work under provisions of Section 01039.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Pre-finished Steel - (Valleys, cap flashing, eave flashing, etc.) To be 24 ga. M.B.C.I. Sheets shop formed to meet requirements of drawings.
- B. Pre-finished Steel - 32" wide wall panels. 26 ga. M.B.C.I. PBD panel.

2.2 REGLETS

- A. General: Units of type, material, and profile indicated, formed to provide secure interlocking of separate reglet and counterflashing pieces and compatible with flashing indicated.
- B. Surface-Mounted Type: Provide with slotted holes for fastening to substrate, with neoprene or other suitable weatherproofing washers, and with channel for sealant at top edge.
- C. Masonry Type: Provide with offset top flange for embedment in masonry mortar joint.
- D. Counterflashing Wind-Resistant Clips: Provide clips to be installed before counterflashing to prevent wind uplift of the counterflashing lower edge.
 - 1. Material: Pre-finished steel, 0.0217 inch (0.55 mm) thick.
- E. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
 - 1. Fry Reglet Corporation.
 - 2. Hickman: W. P. Hickman Co.
 - 3. Keystone Flashing Company.

2.3 MISCELLANEOUS MATERIALS AND ACCESSORIES

- A. Solder: ASTM B 32, Grade Sn50, used with rosin flux.
- B. Fasteners: Same metal as sheet metal flashing or other noncorrosive metal as recommended by sheet metal manufacturer. Match finish of exposed heads with material being fastened.
- C. Asphalt Mastic: SSPC-Paint 12, solvent-type asphalt mastic, nominally free of sulfur and containing no asbestos fibers, compound for 15 mil (0.4-mm) dry film thickness per coat.
- D. Mastic Sealant: Polisobutylene; nonhardening, nonskinning, nondrying, nonmigrating sealant.
- E. Adhesives: Type recommended by flashing sheet metal manufacturer for waterproof and weather-resistant seaming and adhesive application of flashing sheet metal.
- F. Polyethylene Underlayment: ASTM D 4397, minimum 6-mil - (0.15-mm-) thick black polyethylene film, resistant to decay when tested according to ASTM E 154.
- G. Metal Accessories: Provide sheet metal clips, straps, anchoring devices, and similar accessory units as required for installation of Work, matching or compatible with material being installed; noncorrosive; size and thickness required for performance.

PART 3 - EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.

3.3 FIELD QUALITY CONTROL

- A. Inspection will involve surveillance of work during installation to ascertain compliance with specified requirements.

END OF SECTION