

## **SECTION 07620 - SHEET METAL FLASHING AND TRIM**

### **PART 1 GENERAL**

#### **1.01 WORK INCLUDED**

- A. Paratet flashings.
- B. Scuppers.
- C. Roof and sill flashings.
- D. Counterflashings over roofing.
- E. Counterflashings at roof mounted mechanical equipment and vent stacks.
- F. Counterflashings for roof hatches and skylights.

#### **1.02 RELATED WORK**

- A. Section 07530 Roofing.
- B. Section 07724 - Roof Hatches.
- C. Section 07900 - Joint Sealers.

#### **1.03 REFERENCES**

- A. ASTM B370 - Copper Sheet and Strip for Building Construction.
- B. ASTM D226 - Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
- C. CDA (Copper Development Association) - Contemporary Copper, A Handbook of Sheet Copper Fundamentals, Design, Details and Specifications.
- D. CDA - Copper Roofing - A Practical Handbook.
- E. FS O-F-506 - Flux, Soldering, Paste and Liquid.
- F. FS QQ-S-571 - Solder, Tin Alloy.
- G. NRCA (National Roofing Contractors Association) - Roofing Manual.

H. SMACNA - Architectural Sheet Metal Manual.

#### 1.04 SYSTEM DESCRIPTION

- A. Work of this Section is to physically protect membrane roofing and cavity walls, heads and sills, etc. from damage that would permit water leakage to building interior.

#### 1.05 QUALITY ASSURANCE

- A. Applicator: Company specializing in sheet metal flashing work with 5 years minimum experience.

#### 1.06 SUBMITTALS

- A. Submit product data under provisions of Section 01300.
- B. Describe material profile, jointing pattern, jointing details, fastening methods, and installation details.
- C. Submit manufacturer's installation instructions under provisions of Section 01300.
- D. Submit samples under provisions of Section 01300.

#### 1.07 STORAGE AND HANDLING

- A. Store products under provisions of Section 01600.
- B. Stack preformed and prefinished material to prevent twisting, bending, or abrasion, and to provide ventilation.
- C. Prevent contact with materials during storage which may cause discoloration, staining, or damage.

### PART 2 PRODUCTS

#### 2.01 SHEET MATERIALS

- A. Copper: ASTM B370, cold rolled; 20 oz/sq ft, thick; natural finish.

#### 2.02 ACCESSORIES

- A. Fastener: Copper

- B. Underlayment: ASTM D266; No. 15 asphalt saturated roofing felt. 6 mil (0.15 mm) polyethylene.
- C. Slip Sheet: Rosin sized building paper.
- D. Bedding Compound: Rubber-asphalt type.
- E. Solder: FS QQ-S-571.
- F. Flux: FS O-F-506.

### 2.03 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Fabricate cleats and starter strips of same material as sheet, interlockable with sheet.
- C. Form pieces in longest practical lengths.
- D. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
- E. Form material with flat lock seam.
- F. Prein edges of copper sheet.
- G. Solder and seal metal joints. After soldering, remove flux. Wipe and wash solder joints clean.
- H. Fabricate corners from one piece with minimum 18 inch long legs; seam for rigidity, seal with sealant.
- I. Fabricate vertical faces with bottom edge formed outward 1/4 inch (6 mm) and hemmed to form drip.
- J. Fabricate flashings to allow toe to extend 6 inches over roofing. Return and brake edges.

## PART 3 EXECUTION

### 3.01 INSPECTION

- 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.

C. Beginning of installation means acceptance of existing conditions.

### 3.02 PREPARATION

A. Field measure site conditions prior to fabricating work.

B. Install starter and edge strips, and cleats before starting installation.

C. Install surface mounted reglets true to lines and levels. Seal top of reglets with sealant.

D. Insert flashings into reglets to form tight fit. Secure in place with lead wedges at maximum 24 inches on center. Seal flashings into reglets with sealant.

E. Secure flashings in place using concealed fasteners.

F. Lap and seal all joints.

G. Apply plastic cement compound between metal flashings and felt flashings.

H. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.

I. Seal metal joints watertight.

### 3.03 INSTALLATION

A. Conform to drawing details and "Copper and Common Sense" handbook and NRCA manual.

\* \* \* \* \*