

SECTION 07621

PREFABRICATED FLASHINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Pipe and conduit flashing.
- B. Square and rectangular tube flashing.
- C. H-beam and channel flashing.
- D. Angle iron flashing.
- E. Strut flashing.
- F. Lightning protection cable flashing.
- G. Plumbing vent flashing with extension and vandal cap.
- H. Coaxial cable flashing.
- I. Two-piece reglet and counter flashing.

1.2 RELATED SECTIONS

- A. Section [\_\_\_\_\_-\_\_\_\_\_]: Execution requirements for recessed flashing reglets and accessories.
- B. Section [\_\_\_\_\_-\_\_\_\_\_]: Through-wall flashings in masonry.
- C. Section 06114 - Wood Blocking and Curbing: Wood blocking and battens for metal roofing substrate profiles.
- D. Section [\_\_\_\_\_-\_\_\_\_\_]: Roofing system.
- E. Section 07900 - Joint Sealers.
- F. Section [\_\_\_\_\_-\_\_\_\_\_]: Roof curbs for mechanical equipment.
- G. Section [\_\_\_\_\_-\_\_\_\_\_]: Roof curbs for electrical equipment.
- H. Section 08620 - Unit Skylights: Metal curbs.
- I. Section 08630 - Metal-Framed Skylights: Metal curbs.

1.3 REFERENCES

- A. ASTM A 240/A 240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2002a.
- B. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2001a.
- C. ASTM B 32 - Standard Specification for Solder Metal; 2000e1.
- D. ASTM B 209/B 209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2001.



- E. ASTM B 370 - Standard Specification for Copper Sheet and Strip for Building Construction; 1998.
- F. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants; 2002.
- G. ASTM D 3574 - Standard Test Methods for Flexible Cellular Materials, Slab, Bonded, and Molded Urethane Foams; 2001.
- H. UL 651 - Standard for Schedule 40 and 80 Rigid PVC Conduit; 1995.

#### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

#### 1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. **SBC Industries Roof Flashings & Sheet Metal**, which is located at: 1765 Opa Locka Blvd. ; Miami, FL 33054-4221; Toll Free Tel: 800-228-2580; Fax: 305-685-6360; Email: [info@sbflashings.com](mailto:info@sbflashings.com); Web: [www.sbflashings.com](http://www.sbflashings.com)
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### 2.2 PRODUCTS

- A. Flashing for Pipes and Conduits: Stainless steel, ASTM A 240 type 304, 2B finish, 26 gauge (0.475 mm); no curbs required.
  - 1. Flashing Sleeve: 9 inches (229 mm) high, 1/4 inch (6 mm) clearance from penetration.
  - 2. Flashing Plate: Minimum 7 inches (178 mm) larger than penetration.
  - 3. Counter Flashing: Umbrella collar, inside conforming to profile of penetration, extending outward; located directly above flashing to shield sealant from UV.
  - 4. Counter Flashing: Umbrella collar with clamp (N.R.C.A. Type); use when more clearance is necessary between flashing and pipe penetration, or for venting between pipe penetration

and flashing sleeve.

5. Design: 2-piece divided. (Model PL/D).
  6. Design: 1-piece slipover. (Model PL/S).
  7. Pipe Size \_\_\_\_\_ -or- Pipe Outer Diameter \_\_\_\_\_
  8. Pipe Size, Outer Diameter: As indicated on drawings.
- B. Flashing for Angled and Shaped Penetrations: Stainless steel, ASTM A 240 type 304, 2B finish, 26 gauge (0.475 mm).
1. Flashing Sleeve: 6 inches (152 mm) high, 3/16 inch (5 mm) clearance in all directions from penetration.
  2. Flashing Plate: 7 inches (178 mm) larger than penetration.
  3. Counter Flashing: Umbrella collar, inside diameter equal to penetration, outside diameter one to two inches larger; located directly above flashing to shield sealant from UV.
  4. Design: 2 piece divided.
  5. Design: 1 piece slipover.
  6. Penetration Type: Square penetrations. (Models SQT/D and SQT/S).
    - a. Penetration Size: \_\_\_\_\_.
    - b. Penetration Size: As indicated on drawings.
  7. Penetration Type: Rectangular penetrations. (Models RT/D and RT/S).
    - a. Penetration Size: \_\_\_\_\_.
    - b. Penetration Size: As indicated on drawings.
  8. Penetration Type: Structural shaped penetrations, including H-beams, I-beams, and channels. (Models H/D, H/S, I/D, I/S, CH/D, and CH/S).
    - a. Dimensions: \_\_\_\_\_.
    - b. Dimensions: As indicated on drawings.
  9. Penetration Type: Angle iron penetrations, for proper fit on angle iron from 1-1/4 inches (32 mm) to 6 inches (152 mm) and on slopes to 45 degrees. (Models A/D and A/S).
    - a. Penetration Size: \_\_\_\_\_ angle, \_\_\_\_\_ thick.
    - b. Penetration Size: As indicated on drawings.
  10. Penetration Type: Unistrut support penetrations. (Models U/D and U/S).
    - a. Penetration Size: 3/4 inches (19 mm) by 1-5/8 inches (41 mm).
    - b. Penetration Size: 1-5/8 inches (41 mm) by 1-5/8 inches (41 mm).
    - c. Penetration Size: \_\_\_\_\_.
    - d. Penetration Size: As indicated on drawings.
- C. Flashing for Lightning Protection Cable: Stainless steel, ASTM A 240 type 304, 2B finish, 26 gauge

(0.475 mm), with PVC conduit in accordance with UL 651; for cables entering and exiting the building through roof or wall; 1 piece slipover.

1. Inner Diameter: 1-1/4 inches (32 mm). (Model CG125LG).
  2. Inner Diameter: 1-1/2 inches (38 mm). (Model CG150LG).
  3. Inner Diameter: 2 inches (51 mm). (Model CG200LG).
  4. Minimum Radius of Curve: 8 inches (203 mm).
  5. Flashing Plate: 7 inches (178 mm) larger than penetration.
- D. Flashing for Coaxial Cable: Stainless steel, ASTM A 240 type 304, 2B finish, 26 gauge (0.475 mm), with PVC conduit in accordance with UL 651; for cables entering and exiting the building through roof or wall; 1 piece slipover; can be installed before or after cables.
1. Inner Diameter: 1-1/4 inches (32 mm). (Model CXG).
  2. Radius of U-Bend: 3 inches (76 mm).
  3. Flashing Plate: 9 inches (229 mm) by 9 inches (229 mm).
- E. Retrofit Flashing for Plumbing Vent with Extension: Stainless steel plumbing vent flashing with coupled pipe extension and vandal proof cap; for extending existing plumbing vents when roof elevations have been raised due to increased insulation thickness or structural modifications; will not obstruct vent pipe. (Model VTREXVP, "VTR Kit").
1. Pipe Extension: Galvanized pipe, 12 inches (305 mm) long. Thickness Varies with size.
  2. Flashing: Stainless steel, ASTM A 240 type 304, 2B finish, 26 gauge (0.475 mm), 9 inches (229 mm) high sleeve.
  3. Cap: Stainless steel, 18 gauge (1.21 mm), type 304 2B, to conform to ASTM A 240.
  4. Flashing Plate: Minimum 7 inches (178 mm) larger than penetration.
  5. Counter Flashing: Umbrella collar, inside conforming to profile of penetration, extending outward; located directly above flashing to shield sealant from UV.
- F. Line Shack LS Flashing: For housing and flashing a/c tubing and conduit through the roof. Stainless steel housing with a slide off top for access, and closed cell foam insulation for weatherproofing and insulating lines. Line Shack will accommodate refrigerant tubing and conduit for up to four a/c units.
1. Material: Stainless steel, ASTM A 240 type 304, 2B finish, 26 gauge (0.475 mm), 9 inches (229 mm) high sleeve.
  2. Gross Height: 17 inches (432mm).
  3. Roof Flange: Factory soldered 3 1/2 inch (89mm) flange along the roof plane.
  4. Base Flashing: Maximum height 9 inches (229mm).
  5. Access Cover: 11 inches tall by 12 inches wide (279 x 305mm).
- G. Two-Piece Reglet and Counter Flashing: For stucco, metal panel, or veneer-type walls, to allow wall application prior to roof placement; counter flashing can be removed for roof repair or

replacement without damage to wall; two piece design.

1. Metal: Stainless steel, ASTM A 240 type 304, 2B finish, 26 gauge (Nominal 0.478 mm).
  2. Metal: Stainless steel, ASTM A 240 type 304, 2B finish, 24 gauge (Nominal 0.635 mm).
  3. Metal: Stainless steel, ASTM A 240 type 304, 2B finish, 22 gauge (Nominal 0.794 mm).
  4. Metal: Galvanized steel, ASTM A 653/A 653M, type G-90, 26 gauge (Nominal 0.551 mm).
  5. Metal: Galvanized steel, ASTM A 653/A 653M, type G-90, 24 gauge (Nominal 0.701 mm).
  6. Metal: Galvanized steel, ASTM A 653/A 653M, type G-90, 22 gauge (Nominal 0.853 mm).
  7. Metal: Aluminum, ASTM B 209/B 209M, 3003 mill finish, 0.032 inches (Nominal 0.813 mm) thickness.
  8. Metal: Aluminum, ASTM B 209/B 209M, 3003 mill finish, 0.040 inches (Nominal 1.02 mm) thickness.
  9. Metal: Copper, ASTM B 370 cold rolled, 16 ounces (454 grams).
  10. Fasteners: One for every 12 inches (305 mm) of length.
  11. Storm Cleats: One for every 30 inches (762 mm) of length, plus one at each joint.
- H. Backer Rod: Open cell foam, 7/8 inches (22 mm), to conform to ASTM D 3574.
- I. Sealant: Single part urethane, to conform to ASTM C 920.
- J. Solder: 50 percent lead and 50 percent tin per ASTM B 32.
- K. Solder: Tin-silver, 96.5TS, per ASTM B 32.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with flashing and roofing manufacturer's instructions.
- B. Prime and strip flashing plate to roof per roofing manufacturer's specifications.
- C. For one piece flashing, slip flashing over penetration.
- D. For two piece flashing, snap flashing together around penetration. Field solder flashing with specified solder.
- E. Firmly embed flashing plate in full bed of mastic.



- F. Insert backer rod between penetration and flashing, 3/8 inch (9 mm) below top of flashing sleeve. Seal with sealant.
- G. Install counter flashing around penetration and seal with sealant at perimeter.
- H. For clamping counter flashing, clamp around penetration, above sealant.

#### 3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION