SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes but is not limited to:
 - 1. Cutting new opening in existing metal siding.
 - 2. Formed sheet metal fabrications.
 - 3. Fasteners
 - 4. Weather resistive barrier
 - 5. Self-adhered membrane
 - 6. Sealants

B. Related Requirements:

- 1. Section 07 54 19 "Polyvinyl Chloride (PVC) membrane roofing.
- 2. Section 09 9113 "Painting"

1.3 COORDINATION

- A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.
- B. Coordinate sheet metal flashing and trim installation with adjoining wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.4 SUBMITTALS

- A. Product Data:1. For each type of product.
- B. Shop Drawings:1. For sheet metal flashing and trim.

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications:

1. Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General:
 - 1. Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.
- B. Sheet Metal Standard for Flashing and Trim:
 - 1. Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.

2.2 SHEET METALS

- A. Pre-primed Metallic-Finished Steel Sheet: Provide zinc-finished (galvanized) steel sheet according to ASTM A 653/A 653M, G90 (Z275) coating designation; pre-primed by coilcoating process to comply with ASTM A 755/A 755M.
- B. Stainless Steel: ASTM A 240/A 240M or ASTM A 666, Type 304, dead soft, fully annealed. Smooth, flat surface.

2.3 WEATHER RESISTIVE BARRIER

A. Match existing.

2.4 SELF ADHERING HIGH TEMPERATURE FLASHING (SAM-1)

- A. Manufacturer and Product:
 1. Fortifiber Building Systems Group; Fortifiber High Temperature Butyl Flashing.
- B. Product Data:

SHEET METAL FLASHING AND TRIM

- 1. Self-adhering, high-temperature sheet
- 2. Minimum 30 mils thick minimum.
- 3. Consisting of a slip-resistant film top surface laminated to a layer of butyl-modified asphalt adhesive, with release-paper backing.
- 4. Thermal Stability: ASTM D 1970; stable at 240 degrees F or higher.
- 5. Low-Temperature Flexibility: ASTM D 1970; passes at minus 20 degrees F or lower.
- 6. Provide primer according to written recommendations of underlayment manufacturer.

2.5 JOINT SEALANT

- A. Manufacturer and Product:
 - 1. Fortifiber Building Systems Group; Moistop Sealant.
- B. Product Data:
 - 1. STPe, Single-component, nonsag, silyl-terminated polyether joint sealant; ASTM C 920, paintable.

2.6 MISCELLANEOUS MATERIALS

- A. General:
 - 1. Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.
- B. Fasteners:
 - 1. Self-tapping screws, self-locking rivets, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal.
 - 2. Material: Series 300 stainless steel.
 - 3. Use gasketed fasteners at flashing and exterior locations.
- C. Solder:
 - 1. For Stainless Steel: ASTM B 32, Grade Sn60, with acid flux of type recommended by stainless-steel sheet manufacturer.

2.7 FABRICATION, GENERAL

- A. General:
 - 1. Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
- B. Edges:
 - 1. Hem all exposed sheet metal edges unless otherwise noted.

- C. Solder:
 - 1. Stainless steel to configuration detailed in Drawings.

2.8 SHEET METAL FABRICATIONS

- A. General: Fabricate flashings as shown on Drawings.1. Galvanized Steel: 26 gauge, pre-primed.
- B. Door Sill Flashing Pan:1. Stainless steel, 28 gauge, mill finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.
 - 1. Verify compliance with requirements for installation tolerances of substrates.
 - 2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
 - 3. Verify that air- or water-resistant barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 NEW OPENING

A. Cut existing sheet metal siding to accommodate new door and frame as detailed on Drawings. Do not cut through weather resistive barrier under siding at cut line. An intact flap of WRB is required to allow for joining the new SAM flashing to the existing WRB.

3.3 SELF ADHERED MEMBRANE INSTALLATION

- A. Install sheet metal over underlayment material as detailed.
- B. Patch weather resistive barrier at new opening to form water tight assembly.

3.4 INSTALLATION, GENERAL

A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective

coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.

- B. Seal joints as required for watertight construction.
 - 1. Prepare joining surfaces as required by sealant manufacturer's instructions.
 - 2. Provide primer if required by substrate and/or manufacturer's recommendations.
- C. Paint cut edges and new pre-primed flashing per Painting Section.
- D. Rivets: Rivet joints and assemblies where necessary for strength or due to limited access.

END OF SECTION 07 62 00