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# MANUFACTURER'S GUIDE SPECIFICATIONS

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## **SECTION 076523**

### **RUBBER SHEET FLASHING**



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#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. EPDM through-wall flashing and accessory products by Carlisle Coatings & Waterproofing.
- B. Materials and installation methods for EPDM through-wall flashing assemblies as indicated on drawings.
- C. Through-wall flashing and accessories for installation in cavity wall construction in the following locations:
  - 1. Wall bases
  - 2. Window sills
  - 3. Heads of openings
  - 4. Shelf angles
  - 5. Tops of walls
  - 6. Parapets
  - 7. Above projections such as bay windows
  - 8. At other discontinuities in the cavity

##### **1.02 PRODUCTS INSTALLED BUT NOT SUPPLIED UNDER THIS SECTION:** Masonry cavity drainage products (weepers and mortar drip screen) provided in Section 04 05 23 – Masonry Accessories.

##### **1.03 RELATED SECTIONS**

- A. Section 03 30 00 - Cast-In-Place Concrete: Concrete back-up walls, concrete footer
- B. Section 04 05 23 – Masonry Accessories: Weepers, mortar drip screen
- C. Section 04 20 00 - Unit Masonry: concrete masonry unit (CMU) back-up walls
- D. Section 06 16 00 – Sheathing: Exterior sheathing over wall studs
- E. Section 07 11 00 – Damp Proofing: bituminous damp proofing installed over CMU or concrete back-up walls

- F. Section 07 21 00 - Thermal Insulation: Board insulation applied to exterior side of wall
- G. Section 07 25 00 – Weather Barriers: 15# felt or building wrap installed over exterior sheathing
- H. Section 07 90 00 - Joint Protection: Joint sealant materials and installation.
- I. Section 09 29 00 - Gypsum Sheathing: Gypsum sheathing over metal studs.
- J. Section [ ] Other

#### 1.04 REFERENCES

- A. ASTM D 412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
- B. ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials.
- C. ASTM D 746 Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact.
- D. ASTM D 624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
- E. ASTM D 741 Methods of Measuring Dimensions of Rigid Rods Used in Electrical Insulation
- F. ASTM D 4637 Standard Specification for EPDM Sheet Used In Single-Ply Roof Membrane
- G. ASTM D 1149 Standard Test Method for Rubber Deterioration-Surface Ozone Cracking in a Chamber

**1.05 PERFORMANCE REQUIREMENTS**

- A. Provide a membrane constructed to perform as a through-wall flashing durably integrated with the wall assembly's water resistive barrier and cavity drainage system. The installed through-wall flashing shall perform as a liquid water drainage plane to discharge incidental condensation or water penetration to the exterior through the cavity drainage system.
- B. Provide a water proof EPDM membrane through-wall flashing of minimum 0.040 inch (40 mils) thickness consisting of cured, dimensionally-stable, non-reinforced EPDM with talc removed from surfaces. It shall meet the following requirements:

REQUIREMENT	RESULT	TEST METHOD
Tensile Strength	Not less than 1,600 psi	ASTM D 412
Tensile Elongation	Not less than 500 percent	ASTM D 412
Brittleness Temperature	Not more than minus 65 degrees F	ASTM D 746
Tear Resistance	Not less than 200 lb <sub>f</sub>	ASTM D 624, Die C
Resistance to Water	Not more 2 percent volume change after 7 days immersion at 158 degrees F	ASTM D 741
Water Vapor Permeance	Not more than 0.06 Perm	ASTM E-96, Method B
Resistance to UV	No cracks	ASTM D 4637
Ozone Resistance	No cracks	ASTM D 1149

**1.06 SUBMITTALS: Provide in accordance with Section 01 33 00**

- A. At bid submission, provide evidence to the Architect of installer qualification by Manufacturer.
- B. Shop drawings showing locations of through-wall flashing and details of all typical conditions.
- C. Manufacturer's technical data sheets and material safety data sheets for Product and Accessories.
- D. Manufacturer's installation instructions.
- E. Manufacturer's documentation of volatile organic compounds (VOC) content Product and Accessories.
- F. Certification of compatibility by Manufacturer, listing all materials on the Project with which the Product and Accessories may come into contact.

- G. Samples of through-wall flashing minimum 3 inch by 4 inch size.

#### 1.07 QUALITY ASSURANCE

- A. Installer Qualifications: Installer shall be experienced in applying the same or similar materials and shall be specifically approved in writing by Manufacturer.
- B. Single-Source Responsibility: Obtain Product and Accessories from single manufacturer.
- C. Product and Accessories shall comply with all state and local regulations controlling use of volatile organic compounds (VOCs ).
- D. Cooperate and coordinate with the Owner's inspection and testing agency. Do not cover any installed Product unless it has been inspected, tested and approved.

#### 1.08 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to Project site in original packages with seals unbroken, labeled with manufacturer's name, product, lot number and directions for storage.
- B. Store materials in their original undamaged packages in a clean, dry, protected location and within temperature range required by Manufacturer.
- C. Protect stored materials from direct sunlight.
- D. Avoid spillage. Immediately notify Owner, [Architect] [Consultant] if spillage occurs and start clean up procedures. Clean spills and leave area as it was prior to spill.

#### 1.09 WASTE MANAGEMENT AND DISPOSAL

- A. Separate and recycle waste materials in accordance with Section 01 74 19 – Construction Waste Management and Disposal, and with the Waste Reduction Work Plan.
- B. Place materials defined as hazardous or toxic waste in designated containers.
- C. Ensure emptied containers are stored safely for disposal away from children.

## 1.10 PROJECT CONDITIONS

- A. Applicator shall have full, safe access to area.
  - B. Apply Product and Accessories within temperature ranges indicated in Manufacturer's literature.
- 1.11 WARRANTIES: Provide the Manufacturer's minimum five year material warranty under provisions of Section 01 78 36 – Warranties.

## PART 2 PRODUCTS

- 2.01 PRODUCT: Provide Pre-Kleened™ EPDM Thu-Wall Flashing as manufactured by Carlisle Coatings & Waterproofing, Incorporated. 900 Hensley Lane, Wylie, TX 75098. Phone 1-800-527-7092. Website <http://www.carlisleccw.com>
- 2.02 ACCESSORIES: Furnish as manufactured by Carlisle Coatings & Waterproofing, Incorporated.
- A. Splice Tape: SURE-SEAL™ SecurTape
  - B. Splice Tape Primer, select one:
    - 1. SURE-SEAL™ EP-95 Splicing Cement
    - 2. SURE-SEAL™ HP 250 Primer
    - 3. Carlisle Low-VOC Primer
  - C. Splice Cleaner: SURE-SEAL™ Weathered Membrane Cleaner
  - D. Bonding Adhesive, select one:
    - 1. Solvent-based : SURE-SEAL™ 90-8-30A
    - 2. Water-based : Carlisle Low-VOC Bonding Adhesive
  - E. Corner Patch: SURE-SEAL™ Inside/Outside Corners
  - F. Lap Sealant: SURE-SEAL™ Lap Sealant
  - G. Termination Bar: SURE-SEAL™ Termination Bar
  - H. Mastic: SURE-SEAL™ Water Cutoff Mastic

## PART 3 EXECUTION

### 3.01 INSTALLATION

- A. Apply Product and Accessories according to Manufacturer's instructions and drawings.
- B. Apply Product to sound substrate. Do not apply over mechanically-attached water resistive barrier such as felt, paper or house wrap.
- C. Adhere, fasten or cast in place vertical termination of Product according to Manufacturer's instructions and drawings.
- D. Form watertight splices between neighboring pieces of Product using Splice Tape or Splice Compound, according to instructions in Manufacturer's literature.
- E. Install Product with kick-out at flat pitch, or preferably sloped to provide drainage to the exterior. Surfaces shall not be oriented so that water can pond on the through-wall flashing

### 3.02 SCHEDULE

- A. Install Product during or after construction of back-up wall.
- B. Install Product before or during installation of brick veneer.
- C. Lap water resistive barrier over vertical termination of Product on back-up wall. Lap and secure water resistive barrier according to water resistive barrier manufacturer's instructions and drawings.
- D. Integrate Product with adhered membrane air barrier, damp proofing or water-resistive barrier on back-up wall according to Manufacturer's instructions and drawings.

### 3.03 REPAIR AND PROTECTION

- A. Protect Product from damage during application and remainder of construction period.
- B. Inspect before covering and make repairs as necessary. Remove and replace damaged material.

END OF SECTION