

SECTION 076500 – MANUFACTURED FLASHING PANELS

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:

- 1. Manufactured flashing panels for through wall penetrations, rough opening protectives and corner reinforcing.

- B. Related Requirements:

- 1. Section 061000 "Rough Carpentry" for wood nailers, curbs, and blocking.
 - 2. Section 076200 "Sheet Metal Flashing and Trim" for installation of sheet metal flashing and trim integral with building envelope.
 - 3. Section 071326 "Self-Adhering Sheet Waterproofing" for substrate flashings and transitions.
 - 4. Section 072500 "Water Resistive Barrier / Air Barrier" for weather barrier substrate.
 - 5. Section 077200 "Roof Specialties" for roof hatches, vents, and other manufactured roof accessory units.
 - 6. Section 079200 "Joint Sealants" for joint sealants and applications.

1.3 COORDINATION

- A. Coordinate flashing panel types sizes and placement with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.
- B. Coordinate flashing panel installation with adjoining applied finishes and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

- 1. Review construction schedule. Verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review special and typical details, penetration types and sizes, installation sequencing with substrate and applied finish materials and other construction activities that affect flashing panels and trim.

3. Review flashing panel observation and repair procedures after flashing installation.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each manufactured product and accessory.
- B. Shop Drawings: For flashing panels and trim.
 1. Include plans, elevations, sections, and attachment details.
 2. Detail fabrication and installation layouts, and details. Distinguish between shop- and field-assembled work.
 3. Include identification of material, thickness, weight, and finish for each item and location in Project.
 4. Include details for supporting, and securing, including layout and spacing of fasteners, and other accessory attachments.
 5. Include details of special conditions.
 6. Include details of connections to adjoining work.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For installer.
- B. Product Test Reports: For each product, for tests performed by a qualified testing agency.
- C. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For flashing panels and trim, and its accessories, to include in maintenance manuals.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Employs skilled workers who install flashing panels and trim similar to that required for this Project and whose experience indicates a record of successful in-service performance.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
 1. Build mockup of typical flashing panel installation including supporting substrate construction attachments, underlayment, and accessories.

2. Acceptance of mockups does not constitute acceptance of deviations from the Contract Documents contained in mockups unless Architect specifically accepts such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Do not store flashing panels and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store flashing panels and trim materials in manufacturer's original labeled, unopened containers and packaging.

1.10 WARRANTY

- A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace flashing panels and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
 1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to panel.
 2. Panel Warranty Period: Ten (10) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General: Flashing panel 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 flashing panel installation shall not leak, or loosen, and shall remain watertight.

2.2 FLASHING PANELS

- A. General: Provide flashing panel products and accessories sized to accommodate penetration materials and provide a weatherproof seal at the building envelope.
- B. Flashing Panels
 1. Manufacturers: Subject to compliance with requirements, the Basis of Design manufacturer offering products that may be incorporated into the Work includes, but is not limited to, the following:

- a. Quickflash Weatherproofing Products, Inc. (Basis of Design) for through wall penetrations of mechanical, electrical and plumbing components
 - b. W. R. Grace & Co. – “VYCORner” (Basis of Design) prefabricated opening protective corner flashing and reinforcing accessories for doors, windows and large framed openings in the exterior wall envelope.
2. Plumbing and Mechanical Flashing Panels:
 - a. Combination of high-density polyethylene (HDPE) and low-density polyethylene (LDPE).
 - b. HDPE, Specific Gravity, ASTM D 1505: 0.953 g/cm².
 - c. HDPE, Tensile Strength at Yield, ASTM D 638: 3,100 psi.
 - d. LDPE, Specific Gravity, ASTM D 792: 0.917 g/cm².
 - e. LDPE, Tensile Strength at Yield, ASTM D 638: 1,300 psi.
 - f. Weatherproof seal: Thermoplastic elastomer.
 - g. Hardness, ASTM D 2240, Shore A, 10 seconds: 46.
 - h. Specific Gravity, ASTM D 792: 1.05 g/cm².
 - i. Tensile Strength, ASTM D 412: 490 psi.
3. Electrical Flashing Panels:
 - a. Hardness, ASTM D 2240, Shore A, 10 seconds: 93.
 - b. Specific Gravity, ASTM D 792: 1.05 g/cm².
 - c. Tensile Strength, ASTM D 412: 1,300 psi.
4. Opening protective and corner reinforcing Flashing Panels:
 - a. Hardness, ASTM D 2240, Shore A, 10 seconds: 93.
 - b. Specific Gravity, ASTM D 792: 1.05 g/cm².
 - c. Tensile Strength, ASTM D 412: 1,300 psi.

2.3 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, protective coatings, tapes, sealants, and other miscellaneous items as required for complete flashing panel and trim installation and as recommended by manufacturer of flashing panel product manufacturer unless otherwise indicated.

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 INSTALLATION, GENERAL

- A. General: Anchor flashing panels and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners protective coatings, separators, sealants, and other miscellaneous items required to complete flashing panel and trim system.
 - 1. Install flashing panels and trim true to line, levels, and slopes.
 - 2. Install flashing panels and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before installation.
- B. Fasteners: Use fastener sizes that penetrate substrate not less than recommended by panel manufacturer to achieve maximum pull-out resistance.

3.3 WALL FLASHING INSTALLATION

- A. General: Install flashing panels to intercept and exclude penetrating moisture. Coordinate installation of wall flashing with installation of wall-opening components such as windows, doors, and louvers.
- B. Opening Flashings in Frame Construction: Install continuous corner reinforcing flashing panel components and similar flashings to extend 4 inches (100 mm) beyond edge of framed rough wall openings.

3.4 CLEANING AND PROTECTION

- A. Clean exposed surfaces of substances that interfere with installation of the work of following trades.
- B. Clean off excess sealants.

- C. Replace flashing panels and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 076500