

SECTION 07652

ROOFING UNDERLAYMENTS AND SHEET FLASHING – FutureFlash®

This section is based on the products of MFM Building Products Corp., which is located at:

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MFM Building Products was founded in 1961 and has been a leader in manufacturing waterproofing barriers and sealing systems for the construction industry. MFM offers customers a complete “envelope” of waterproofing solutions from the rooftop to the foundation.

MFM product advantages include: self-adhering or “self-stick” properties; self-sealing around fasteners; unique adhesive systems that will not crack or dry out; membranes that are compatible with most building materials; fast and easy installation to save time and money; competitively priced; rugged and reliable performance; and all products are made in the USA.

Whether your project is new construction, an addition or repair, you can rely on MFM Building Products for the best waterproofing and sealing solutions available. Contact 800-882-7663 or email customerservice@mfmbsp.com for more information or pricing.

PART 1 GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER **** Delete items below not required for project.

- A. Window tapes and flashing.
- B. Construction tapes.

1.2 RELATED SECTIONS

**** NOTE TO SPECIFIER **** Delete any sections below not relevant to this project; add others as required.

- A. Section 06100 - Rough carpentry.
- B. Section 06112 - Framing and Sheathing.
- C. Section 07311 - Asphalt Shingles.
- D. Section 07320 - Roof Tiles.
- E. Section 08100 - Metal Doors and Frames.
- F. Section 08300 - Windows.
- G. Section 08400 - Entrances and Storefronts.

1.3 REFERENCES

**** NOTE TO SPECIFIER **** Delete references from the list below that are not actually required by the text of the edited section.

- A. ASTM International:
 - 1. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
 - 2. ASTM D 903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
 - 3. ASTM D 3767 - Standard Practice for Rubber - Measurement of Dimensions.
 - 4. ASTM D 5147 - Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Material.
 - 5. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.
- B. International Code Council - Evaluation Service (ICC-ES):
 - 1. AC 148 - Acceptance Criteria for Flexible Flashing Materials
 - 2. ICC-ES ESR 1737 Evaluation Report.
 - 3. ICC-ES-ESR 2783 Evaluation Report.
- C. Uniform Building Code Section #1 707

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: Submit shop drawings including details of construction and relationship with adjacent construction.
- D. Verification Samples: For each finish product specified, two samples, minimum size 3 inches (75 mm) x 4 inches (100 mm), representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Experienced in installation of specified material type with working knowledge of specified products and Project specific application requirements.

1.6 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.

1.7 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 recommended limits.

1.8 WARRANTY

- A. Limited Warranty:
 - 1. Manufacturer warrants materials to be free from leaks caused by defects in material or manufacturing for a period of ten years from the date of purchase when applied according to published directions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: MFM Building Products Corp.; 525 Orange St., Coshocton, OH 43812. ASD. Toll Free Tel: (800) 882-7663. Tel: (740) 622-2645. Fax: (740) 622-6161. Email: customerservice@mfm-bp.com. Web: <http://www.mfm-bp.com>.

**** NOTE TO SPECIFIER **** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- D. Window and Door Waterproofing Membrane:

FutureFlash® is available in either a 25 mil or 40 mil waterproofing membrane. FutureFlash® is a mechanically attached product. These prefabricated waterproofing membranes are designed for use around windows and doors, under stucco and other exterior wall systems. The product may be used to strip in the flanges of wood, metal and vinyl windows or as a flashing wherever a uniform, dependable waterproofing barrier is required. FutureFlash® is constructed of two high-performance films with a core or rubberized asphalt between them. The outer polyethylene film is tough and resistant to tear, while the inner polyester film adds dimensional stability. Apply FutureFlash® around all windows and door openings to protect against leaks caused by soaking and wind-driven rain. It is designed to meet the requirements of Uniform Building Code Section #1 707.

**** NOTE TO SPECIFIER **** Delete products not required.

- 1. Product: **FutureFlash® (25 mil - 0.64 mm)** as manufactured by MFM Building Products Corp.

**** NOTE TO SPECIFIER **** Delete product model numbers, widths not required.

- a. Product Model Numbers: 36 inches (914 mm) wide, MFM 42036.
 - b. Product Model Numbers: 18 inches (457 mm) wide, MFM 42018.
 - c. Product Model Numbers: 12 inches (305 mm) wide, MFM 42012.
 - d. Product Model Numbers: 9 inches (229 mm) wide, MFM 42009.
 - e. Product Model Numbers: 6 inches (152 mm) wide, MFM 42006.
 - f. Product Model Numbers: 3 inches (76 mm) wide, MFM 42003.
- 2. Product: **FutureFlash® (40 mil - 1.00 mm)** as manufactured by MFM Building Products Corp.
 - a. Product Model Number: 18 inches (457 mm) wide, MFM 42418.
 - b. Product Model Number: 12 inches (305 mm) wide, MFM 42412.
 - c. Product Model Number: 9 inches (229 mm) wide, MFM 42409.

3. Construction: Two high-performance films with a core of rubberized asphalt sandwiched between them. The outer polyethylene film is tough and resistant to tear. The inner polyester film adds dimensional stability to the product.
4. Gun Grade Sealant: FutureFlash Sealant or other as recommended by membrane manufacturer.
5. Technical Properties:
 - a. Material Color: Black.
 - b. Pliability (ASTM D 146): Pass.
 - c. Tensile (ASTM D 412): 31 lb/inch (0.54 Kg/mm).
 - d. Tear Strength (ASTM D 5147): 44 lb/inch (0.77 Kg/mm).
 - e. Elongation (ASTM D 412): 129 percent.
 - f. Installation Temperature: Greater than 40 degrees F (4.4 degrees C).
6. Approvals: FutureFlash 25 Mil. Tested to AC 148, ICC-ES-ESR 2783 Report.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.
- B. Clean surfaces thoroughly prior to installation. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

**** NOTE TO SPECIFIER **** Delete if not required.

3.2 WALL DETAIL FLASHING INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Window: Flashing shall be mechanically attached to the window sill plate and two vertical king studs using nails, staples or other mechanical attachment. A continuous bead of sealant shall be applied to the inside surface of the window flange before the window is set into place, making sure that there is a positive seal around the rough opening. The header flashing shall be mechanically attached to the header beam so that the membrane overlaps the outside of the top window flange. Building paper is to be installed so that it overlaps the flashing at the king studs and header, and is tucked under the flashing on the sill and mechanically attached.

**** NOTE TO SPECIFIER **** Delete if not required.

- C. Inset Windows Installation:
 1. Cover wooden buck with tape - tape overlaps should be at least 3 inches (76 mm) in a shingle-like manner
 2. Install window per manufacturer's instructions.
 3. Stucco or other coatings will adhere directly to the tape

3.3 PROTECTION

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

END OF SECTION