

SECTION 07652

ROOFING UNDERLAYMENTS AND SHEET FLASHING – MFM Wind & Water Seal™

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@mfmhcp.com for more information or pricing.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Roofing underlayments.

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 146 - Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing.
 - 2. ASTM D 226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
 - 3. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
 - 4. ASTM D 903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
 - 5. ASTM D 1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
 - 6. ASTM D 2523 - Standard Practice for Testing Load-Strain Properties of Roofing Membranes.
 - 7. ASTM D 3767 - Standard Practice for Rubber - Measurement of Dimensions.
 - 8. ASTM D 5147 - Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Material.
 - 9. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.

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: Underlayments.
 - 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.

2.2 ROOFING UNDERLAYMENTS

MFM Wind & Water Seal™ is a self-adhering waterproofing underlayment composed of a non-slip polymer film laminated to a high temperature rubberized asphalt adhesive system. This adhesive system is self-sealing around common roofing fasteners to provide a waterproofing bond. It is engineered for use under all roofing materials including metal, asphalt shingles, shake or concrete shingles, and clay tiles. MFM Wind & Water Seal adheres aggressively to most clean, dry substrates including metal, plywood, OSB, foam insulation, house-wrap, rigid vinyl and masonry. MFM Wind & Water Seal may be installed at valleys, ridges, chimneys, eaves and across the entire roof as a secondary water barrier with proper ventilation.

- A. Self-Adhesive Underlayment (High Temperature): **MFM Wind & Water Seal™** as manufactured by MFM Building Products Corp.
 - 1. Product Model Numbers: 36 inches (914 mm) by 67 feet (20 m) - MFM 48267.
 - 2. Description: Self-adhering waterproofing underlayment composed of a non-slip polymer film laminated to a rubberized asphalt adhesive.
 - 3. Split Release Liners: Protect the adhesive and removed as underlayment is installed.

**** NOTE TO SPECIFIER **** Some code approvals require a minimum slope of 3:12 - check your local building codes for required roof slope.

- 4. Minimum Slope for Installation: 2 / 12.
- 5. Technical Properties:
 - a. Material Color: White/Gray.
 - b. Material Thickness (ASTM 5147): 40 Mils (1.0 mm) Nominal.
 - c. Flexibility at -20 degrees F (-29 degrees C) (ASTM D 1970): Pass.
 - d. Vapor Permeance (ASTM E 96): Less than 0.01.

- e. Nail Sealability (ASTM D 1970): Pass.
- f. Adhesion to Plywood at 75 degrees F (24 degrees C) (ASTM D 903/1970): 12 lbs/ft (18 Kg/meter).
- g. Adhesion to Plywood at 40 degrees F (4.4 degrees C) (ASTM D 903/1970): 2 lbs/ft (3 Kg/meter).
- h. Maximum Service Temperature: 250 degrees F (121 degrees C).
- i. Installation Temperature: Greater than 50 degrees F (10 degrees C).

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 ROOFING UNDERLAYMENT INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. The substrate surface shall be clean, dry and smooth. Prime masonry and other surfaces as necessary to achieve good adhesion. Coat end laps with roofing mastic to ensure a watertight seal. Mechanical fasteners may be used. Extend underlayment above the highest level water is expected.

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

3.3 ROOFING DETAIL FLASHING INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. The substrate surface shall be clean, dry and smooth. Prime masonry and other surfaces as necessary to achieve good adhesion. Coat end and side laps with roofing mastic to ensure a watertight seal. Mechanical fasteners may be used. Extend underlayment above the highest level water is expected.

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

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