

SECTION 07652

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

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

525 Orange St.
P. O. Box 340
Coshocton, OH 43812
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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

- 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.

- B. Florida Building Code:
 - 1. FL No. 11842.1.
 - 2. Miami-Dade County Approved - NOA 11-0826.03.

- C. 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.

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

Black Wind & Water Seal™ is a 55 mil, self-adhesive mineral surface underlayment that applies directly to the roof deck. The specially formulated rubberized asphalt adhesive self-seals around common roofing fasteners. The sand surface contains a high-strength, non-woven fiberglass mat which is coated with the adhesive system. The sand surface provides an improved walking surface. Product installs under shingles, tile, or metal to protect from leaks due to ice dams and blowing rain. Apply directly to the roof deck at eaves, valleys, vents, skylights and chimneys. Black Wind & Water Seal may be installed across the entire roof as a secondary water barrier with proper ventilation. MFM recommends contacting the metal panel manufacturer before specifying Black Wind & Water Seal for compatibility.

- A. Self-Adhesive Mineral Surface Underlayment: **Black Wind & Water Seal™** as manufactured by MFM Building Products Corp.

1. Product Model Numbers: 36 inches (914 mm) - MFM 47T50.
2. Description: Self-adhesive mineral surface underlayment; rubberized asphalt adhesive formulated to seal around nails and forms a barrier. Backed with a protective release liner which removes easily during application.
3. Release Liners: Slit in the middle for easy valley applications.
4. Granule Surface: Contains a high-strength non-woven fiberglass mat which is coated with a rubberized asphalt compound. Granules are applied to the top surface for an improved walking surface.
5. Sealing: Selvedge edge allows for a secure seal on overlaps.
6. Minimum Slope for Installation: 2 / 12.
7. Technical Properties:
 - a. Material Color: Black.
 - b. Material Thickness (ASTM D 5147): 55 Mils (1.4 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. Tensile MD (ASTM D 1970): 42 lbs/in (0.74 Kg/mm).
 - g. Tensile CMD (ASTM D 1970): 33 lbs/inch (0.58 Kg/mm).
 - h. Installation Temperature: Greater than 40 degrees F (4.4 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