

## SECTION 07550

### MODIFIED BITUMINOUS MEMBRANE ROOFING – Peel & Roof™

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  
Toll Free Tel: (800) 882-7663  
Tel: (740) 622-2645  
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Email: [customerservice@mfmbsp.com](mailto:customerservice@mfmbsp.com)  
Web: <http://www.mfmbsp.com>

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](mailto: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. Single ply membrane roofing.
- B. Roll roofing.
- C. Seaming tape.

##### 1.2 RELATED SECTIONS

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

- A. Section 03300 - Cast-In-Place Concrete.
- B. Section 04800 - Masonry Assemblies.
- C. Section 06100 - Rough carpentry.
- D. Section 06112 - Framing and Sheathing.
- E. Section 07210 - Building Insulation.

### 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 903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
  - 2. ASTM D 1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
  - 3. ASTM D 2523 - Standard Practice for Testing Load-Strain Properties of Roofing Membranes.
  - 4. ASTM D 3767 - Standard Practice for Rubber - Measurement of Dimensions.
  - 5. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.
  - 6. ASTM E 2112 - Standard Practice for Installation of Exterior Windows, Doors and Skylights.
  
- B. Florida Building Code (FBC): Miami-Dade County Product Approval System.
  - 1. FL No. 11842.2.
  - 2. FL No. 13025.1.
  - 3. FL No. 13025.2.
  
- C. Underwriters Laboratories, Inc. (UL).
  
- D. International Code Council: ICC-ES AC-75 - Acceptance Criteria for Membrane Roof-Covering Systems.

### 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. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
  
- E. Warranty: Submit manufacturer's standard warranty.

**\*\* NOTE TO SPECIFIER \*\*** Delete selection samples if colors have already been selected.

- F. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
  
- G. 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. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
- B. Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.
- C. 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@mfbmp.com. Web: <http://www.mfbmp.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 SINGLE PLY MEMBRANE ROOFING

**Peel & Roof™** is a self-adhering 90 mil attractive, granule surfaced roofing membrane with a selvage edge to create a watertight seal at the seams. It is designed to be installed directly to the roof deck or to a secure underlayment. It is ideal for slopes greater than ½" per foot. Peel & Roof is composed of a strong, pliable polyester fabric coated with a rubberized asphalt adhesive with a top layer of decorative ceramic

granules. It may be used on additions, sheds, garages, barns, stables and dormers. Color options blend with most asphalt shingles and other roofs.

- A. Product: Peel & Roof™ as manufactured by MFM Building Products Corp.

**\*\* NOTE TO SPECIFIER \*\* Delete product number, colors not required.**

1. Product Model Number: White - MFM 59W33.
2. Product Model Number: Black - MFM 59BL33.
3. Product Model Number: Brown - MFM 59B36.
4. Product Model Number: Tan - MFM 59T33.
5. Description: Decorative, granule surfaced, self-adhering roof membrane designed to be installed directly to the roof deck or to a secure underlayment.
6. Composition: Pliable polyester fabric coated with a rubberized asphalt adhesive with a decorative ceramic granule.
7. Split Release Liners: Protect adhesive surface before installation.
8. Sealing: 3 inch (76 mm) selvedge edge provides a secure, water-proof seal at the seams.
9. Minimum Slope: Applicable for slopes greater than 1/2 inch per foot (42 mm per meter).
10. Width: 39 inches (991 mm).

- B. Technical Properties:

1. Material Thickness (ASTM D 3767): 90 Mils (2.3 mm) Nominal.
2. Flexibility at -20 degrees F (-29 degrees C) (ASTM D 1970): Pass.
3. Vapor Permeance (ASTM E 96): Less than 0.01.
4. Nail Sealability (ASTM D 1970): Pass.
5. Tensile MD (ASTM D 1970): 80 lbs/in (1.4 Kg/mm).
6. Tensile CMD (ASTM D 1970): 60 lbs/in (1.1 Kg/mm).
7. Installation Temperature: Greater than 55 degrees F (4.4 degrees C).

- C. Accessories:

**\*\* NOTE TO SPECIFIER \*\* Delete accessories not required.**

1. Substrate Primer: Asphalt-based commercial primer.
2. Substrate Protection: MFM Wind & Water Seal.
3. Membrane Adhesive: MFM Spray Adhesive™ as manufactured by MFM Building Products Corp.
4. Roofing Mastic: As recommended by membrane manufacturer.
5. Termination Bar: As recommended by membrane manufacturer.
6. Exterior Grade Caulk: As recommended by membrane manufacturer.

## 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.

### 3.2 SINGLE PLY MEMBRANE ROOFING INSTALLATION

Peel & Roof™ will adhere directly to most surfaces including wood, metal, fully cured masonry and existing smooth asphalt roofs, and rigid insulation board. For additional protection, Peel & Roof may be installed directly over a base of MFM Wind & Water Seal™.

- A. Surface Preparation: The surface to receive the membrane shall be clean, smooth, dry and free from oil, grease, solvents or debris. Before applying membrane over caulks, sealants or petroleum-based materials, allow solvents to evaporate fully. For improved adhesion, prime deck. Priming of plywood, OSB, composition board, and masonry is required.
- B. Install in accordance with manufacturer's instructions.
  - 1. Apply by removing the release liner and pressing the membrane into place. Cut to fit using scissors or razor knife.
  - 2. Overlap the product, 3 inches (76 mm) side laps and 6 inches (152 mm) end laps. The side lap shall be constructed by exposing the selvedge and installing the next course of membrane overlapping the selvedge. End laps shall be done using either roofing mastic or two continuous beads of asphalt caulking. Apply spray adhesive to maximize adhesion at perimeters, flashings, vertical surfaces, repairs and detailing areas.
  - 3. Membrane shall be installed perpendicular to the slope of the roof. Installation shall begin at the low point of the roof and proceed up the slope so water does not flow against the laps.
  - 4. Place the sheet in the desired position and unroll about 10 feet (3 m) to check alignment. Reroll to within 3 feet (1m) of the end. Peel off first 2 feet (610 mm) of release liner and adhere sheet to the substrate being careful to maintain proper alignment. Reroll onto the adhered portion so that free release paper can be reached. Slowly and carefully unroll the membrane, peeling the release liner and pressing into place as you go, making sure to eliminate air pockets and keeping the roll properly aligned.
  - 5. Rolling the exposed outside edge is especially important in achieving maximum performance. Slight adjustments in direction are possible by guiding the roll during application.
  - 6. Where the field of the roof intersects a wall, membrane shall extend up the vertical surface at least 4 inches (102 mm). Another strip of material about 12 inches (305 mm) in width shall be installed as a counter flashing. This strip shall extend 4 inches (102 mm) out onto the roof and extend at least 4 inches (102 mm) above the edge of the roof membrane. This counter flashing shall be mechanically attached on the vertical surface using a metal termination bar and sealed with a bead of exterior grade caulk. All perimeters shall be mechanically attached.

### 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**