

SECTION 07652

ROOFING UNDERLAYMENTS AND SHEET FLASHING – WindowWrap® PowerBond™

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. Window tapes and flashing.

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 08100 - Metal Doors and Frames.
- D. Section 08300 - Windows.
- E. 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 903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
 - 2. 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.

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 fifteen years (15) 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 SELF-ADHERING WINDOW FLASHING TAPE

WindowWrap® PowerBond™ effectively stops water leaks around windows, doors and building seams while reducing outdoor noise and air infiltration. The patented PowerBond™ adhesive securely bonds the window flange to the exterior wall, and the rubberized asphalt self-seals around nails and staples. This advanced system allows installation in temperatures as low as 25° F. Install on the window sill to protect against moisture that can contribute to rot, mold or mildew. Use to seal the window flange to the building wall, seal around doors, sealing under siding or exterior plaster, and waterproof sill plates and wall joints. Maximum exposure rating of 180 days due to silver polymer construction. Adheres to prepared substrates of plywood, OSB, masonry, aluminum, vinyl, steel, drywall, insulation board and house wrap.

1. Product: **WindowWrap® PowerBond™** as manufactured by MFM Building Products.

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

- a. Product Model Numbers:
- 1) Width: 18 inches (457 mm) wide: MFM 44118.
 - 2) Width: 12 inches (305 mm) wide: MFM 44112.
 - 3) Width: 9 inches (229 mm) wide: MFM 44109.
 - 4) Width: 6 inches (152 mm) wide: MFM 44106.
 - 5) Width: 4 inches (102 mm) wide: MFM 44104.
 - 6) Width: 3 inches (76 mm) wide: MFM 44103.
- b. Construction: A patented, silver polymer film that is coated with aggressive PowerBond Adhesion Technology.
- c. Technical Properties:
- 1) Material Color: Silver.
 - 2) Material Thickness (ASTM D 3767): 25 mils (0.64 mm) Nominal.
 - 3) Pliability at 0 degree F (-18 degrees C) (ASTM D 1970): Pass.
 - 4) Nail Sealability (ASTM D 1970): Pass.
 - 5) Tensile MD (ASTM D 1970): 16 lbs/inch (0.28 Kg/mm).
 - 6) Tensile CMD (ASTM D 1970): 21 lbs/inch (0.37 Kg/mm).
 - 7) Elongation MD (ASTM D 1970): 44 percent.
 - 8) Elongation CMD (ASTM D 1970): 60 percent.
 - 9) Installation Temperature: Greater than 25 degrees F (-3.9 degrees C).
2. a. Complies with AAMA 711-07 as specified in ICC-ES AC148 (02-11).
- b. ICC-ES ESR 2783

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 WALL DETAIL SEALING TAPES INSTALLATION

- A. Install in accordance with manufacturer's instructions.
 - 1. Apply primer to masonry and weathered surfaces prior to application.
 - 2. Apply adhesive to substrate in colder temperatures to enhance bonding of tape.

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

- B. Flanged Windows Installation:
 - 1. Cut a length of tape that is 12 inches (305 mm) wider than the window to install on the sill. Peel back 6 inches (152 mm) of the release liner, press tape into place and continue removing release liner. Roll tape surface firmly with a hand roller to activate the adhesive.
 - 2. Install the window per manufacturer's instructions.
 - 3. Cut two lengths of tape for each side of the window approximately 8 inches (203 mm) longer than the height of the window.
 - 4. Starting at the bottom of the window, overlap the bottom piece of tape about 4 inches (102 mm) and continue up the side of the window covering the flange. Carefully press into place and roll with a hand roller to activate adhesive. Repeat other side.
 - 5. Cut a length of tape that is at least 12 inches (305 mm) wider than the window. Apply this piece across the top of the window covering each end of the side pieces of tape. Header piece shall be installed directly to the sheathing underneath house wrap.
 - 6. Tape shall be coated or covered as soon as possible. It shall not be left uncovered for more than 30 days.
 - 7. When coating with stucco, first apply a light coat of stucco to wet the surface of the tape and then apply more stucco.

**** 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

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

- D. Panel Seams Installation:
 - 1. Start at the bottom and work up - peel back 6 inches to 10 inches (152 mm to 254 mm) of release liner to expose adhesive
 - 2. Center tape over the seam and press into place.
 - 3. Roll tape firmly with a hand roller to activate adhesive.

4. Overlap tape by at least 3 inches (76 mm) in a shingle-like manner

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