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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies AFM and AFM-WM peel-and-stick anti-fracture and waterproof anti-fracture membranes for use under ceramic tile, porcelain, and natural stone for stress relief and waterproofing. These products are manufactured by Protecto Wrap Co. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

SECTION 09 30 00
TILING

PART 1 GENERAL

1.01 SUMMARY

Specifier Note: Revise paragraphs below to suit project requirements.

- A. Section Includes: Anti-fracture and anti-fracture waterproofing membranes.
- B. Related Sections:
 - 1. Tile and Tile Installation: Division 09 tile sections.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 01 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

1.02 REFERENCES

- A. ASTM International:
 - 1. ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester.
 - 2. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
 - 3. ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 - 4. ASTM E492 Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine.
- B. Tile Council of North America (TCNA):
 - 1. Handbook for Ceramic Tile Installation.



Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 01 Submittal Procedures Section.

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01 Submittal Procedures Section.
- B. Product Data: Submit product data, including manufacturer's SPEC-DATA® sheet, for specified products.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

- C. Samples: Submit 6 inch × 6 inch (152 × 152 mm) samples of specified membrane(s).

Specifier Note: Retain below only if flood test is specified in Part 3.

- D. Test Reports: Submit copies of flood test report, signed by the installer and the Contractor, to the Architect and the manufacturer within 30 days of testing.

1.04 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 01 Regulatory Requirements Section. Repetitive statements should be avoided.

- A. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].
 - 1. [Code agency name].
 - a. [Report or approval number].

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 01 Product Requirements Section.

1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 01 Product Requirements Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.06 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
 - 1. Warranty Period: 5 years commencing on Date of Substantial Completion.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 MEMBRANE(S)

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

A. Manufacturer: Protecto Wrap Co.

1. Contact: 1955 South Cherokee St., Denver, CO 80223; Telephone: (800) 759-9727, (303) 777-3001; Fax: (303) 777-9273; E-mail: info@protectowrap.com; website: www.protectowrap.com.

Specifier Note: Edit Paragraph below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 01 Project Requirements (Product Substitutions Procedures) Section.

B. Substitutions: No substitutions permitted.**2.02 MATERIALS**

Specifier Note: Refer to manufacturer's SPEC-DATA sheet for substrates to which these membranes can be applied.

A. Membrane Physical Properties:

1. Thickness: 40 mils (1 mm).
2. Elongation (ASTM D412): 500%, minimum, (rubberized adhesive only).
3. Robinson Floor Test (ASTM C627): Rated for extra heavy traffic.
4. Impact Insulation Class (ASTM E492): IIC 67.
5. Sound Transmission Class (ASTM E90): STC 55.

Specifier Note: Select membranes below to suit project requirements. If both membranes are selected, coordinate locations with drawings.

B. Anti-Fracture Membrane: AFM.**C. Anti-Fracture Waterproofing Membrane: AFM-WM.****2.03 ACCESSORIES****A. Adhesive: No. 6000 Water-Based Primer.**

Specifier Note: Primer above is for interior applications; primer below is for exterior applications.

B. No. 80 Primer.

Specifier Note: The products below are used with the waterproof membrane for detailing around penetrations and edge terminations.

C. JS160 Mastic.**D. AFM 500 Detail Tape.****PART 3 EXECUTION**

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, waterproofing details and product carton instructions for installation.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify that substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.04 INSTALLATION

Specifier Note: Retain paragraphs below if required to conform to project requirements.

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- A. Plywood Subfloors: In accordance with TCA Method F147.
 - B. Expansion Joints: In accordance with TCA Method EJ171.

3.05 FIELD QUALITY CONTROL

Specifier Note: Retain below if waterproof membrane is specified; manufacturer will not issue a warranty unless the installation passes this test.

- A. Flood Test: Test waterproofing membrane applications prior to installation of tile in accordance with the manufacturer's test procedures. Proof of successful water testing is required for warranty on waterproofing applications.

END OF SECTION