SECTION 07 26 00

VAPOR RETARDERS

PART 1 GENERAL

1.1 SECTION INCLUDES

C. Vapor Retarder.

1.2 RELATED SECTIONS

A. Section 07100 - Dampproofing and Waterproofing: Insulation installed with waterproofing

systems.

B. Section 07260 - Vapor Retarders: Vapor retarder materials to adjacent insulation.

C. Section 07270 - Air Barriers: Air seal materials to adjacent insulation.

D. Section 07480 - Exterior Wall Assemblies: Exterior Insulated Finish Systems EIFS.

F. Section 09200 - Plaster and Gypsum Board: Insulation installed in conjunction with interior wall and ceiling finish systems.

1.3 REFERENCES

A. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building

Materials.

B. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.

C. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials.

D. ASTM E 136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at

750 Degrees C.

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. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer with a minimum of ten years experience

manufacturing products in this section shall provide all products listed.

B. Installer Qualifications: Products listed in this section shall be installed by a single

organization with at least five years’ experience successfully installing vapor retarders.

C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and

application workmanship.

1. Finish areas designated by Architect.

2. Do not proceed with remaining work until workmanship is approved by Architect.

3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.

B. Storage: Store materials in dry locations with adequate ventilation, free from water, and in such a manner to permit easy access for inspection and handling.

C. Handling: Handle materials to avoid damage.

1.7 SEQUENCING

A. Coordinate with the installation of vapor retarders and air seal materials specified is Section 07260 and Section 07270.

B. Ensure that products of this section are supplied to affected trades in time to prevent

interruption of construction progress.

1.8 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 absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: CertainTeed, which is located at: 20

Moores Road, Malvern, PA 19355; Toll Free Tel: 800-233-8990

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section

01600.

2.2 VAPOR RETARDER; SECTION 07 26 00

A. Sheet Retarder: Certainteed MemBrain, The SMART Vapor Retarder. Polyimide film vapor

retarder for use with unfaced, vapor permeable glass fiber and mineral wool insulation in wall

and ceiling cavities. Material has a permeance of 1 perm or less when tested to ASTM E 86,

dry cup method and increases to greater than 10 perms using the wet cup method.

1. Water Vapor Permeance:

a. ASTM E 86, dry cup method: 1.0 perms (57ng/Pa\*s\*m2).

b. ASTM E 86, wet cup method: 10.0 perms (1144ng/Pa\*s\*m2).

2. Fire Hazard Classification: ASTM E 84:

a. Maximum Flame Spread Index; 25

b. Maximum Smoke Developed Index; 450

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

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

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install in exterior spaces without gaps or voids.

C. Install vapor retarder facing the warm side. Seal or tape joints as 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