The School District of Palm Beach County Project Name SDPBC Project No.

SECTION 07 21 19 FOAMED-IN-PLACE INSULATION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. General provisions of the Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work in this section.

1.2 DESCRIPTION OF WORK

- A. Extent of this work shall be as indicated on the drawings and/or specified herein.
- B. Foamed-in place insulation in masonry cavity walls and at exterior wall crevices requiring a thermal seal.
- C. Foamed-in-place insulation at junctions of dissimilar wall and roof materials to achieve a thermal and air seal

1.3 REFERENCES

- A. ASTM D1621 Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- B. ASTM D1622 Standard Test Method for Apparent Density of Rigid Cellular Plastics
- C. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- D. ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- E. ASTM E96/E96M Standard Test Methods for Water Vapor Transmission Rate of Materials
- F. ASTM C177 Standard Test Method for Steady State heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot-Plate Apparatus
- G. ASTM C1029 Standard Specification for Spray-Applied Rigid Cellular Polyurethane Insulation Thermal Insulation
- H. FBC Florida Building Code

1.4 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products specified herein with a minimum of 5-year documented experience.
 - 1. Provide the product from a single manufacturer.
 - 2. Product shall be pre-mixed to ensure consistency.
- B. Applicator: Company specializing in installing the products specified herein with a minimum of 5-years documented experience.
- C. Do not install any product specified when the ambient temperature is below manufacturer's recommendation.

1.5 SUBMITTALS

- A. Submit complete product data for all materials furnished.
- B. Material Safety Data Sheet: Submit Material Safety Data Sheet complying with OSHA Hazard Communication, Standard 29 CRF 1910.1200.
- C. Certified Test Reports: With product data, submit copies of certified test reports showing compliance with the specified performance values, including R-Values, fire performance, and sound abatement characteristics.
- D. Installer shall provide a copy certification to install the product from manufacturer.

PART 2 PRODUCTS

2.1 MATERIALS

A. Two component plastic resin and catalyst foaming agent free of urea formaldehyde.

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1. Maximum Surface Burning Characteristics per ASTM E84:

a. Flame spreadb. Smoke developedc. Fuel contributed252000

- 2. Thermal Values: R-Value of 4.9" @ 32°F mean; ASTM C-177.
- 3. Sound Abatement: Minimum sound transmission class (STC) rating of 53 and a minimum outdoor indoor transmission class (OITC) rating of 44 for 8" wall assembly (ASTM E90).
- 4. Compressive Strength 35
- 5. Density 1.3 lbs per cu ft
- 6. Water Vapor Transmission 15.5-16.9 perms per inch
- 7. Non-Toxic per FHSA

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify site conditions prior to commencement of installation.
- B. Verify work within construction spaces or crevices are complete prior to insulation application.
- C. Verify that surfaces are clean, dry, and free of matter that may inhibit insulation adhesion.

3.2 PREPARATION

- A. Mask and protect adjacent surfaces from over spray or dusting.
- B. Apply primer in accordance with manufacturer's instructions.

3.3 APPLICATION

- A. Apply insulation in accordance with manufacturer's instructions.
- B. Apply insulation to a uniform monolithic density without voids.
- C. Coordinate installation of protective covering to achieve fire rating required.
- D. Patch damaged areas.

3.4 FIELD QUALITY CONTROL

A. Inspection includes verification of insulation and overcoat thickness and density.

3.5 PROTECTION OF FINISHED WORK

- A. Protect finished Work under provisions of Section 1.
- B. Do not permit subsequent construction work to disturb applied insulation.

END OF SECTION