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072726 - Fluid-Applied Membrane Air Barriers

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SECTION 07 2726 - FLUID-APPLIED MEMBRANE AIR BARRIERS

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Fluid-applied membrane air barrier, vapor retarding.
 - 2. Fluid-applied membrane air barrier, vapor permeable.

1.2 DEFINITIONS

- A. ABAA: Air Barrier Association of America.
- B. Air Barrier Assembly: The collection of air barrier materials and auxiliary materials applied to an opaque wall, including joints and junctions to abutting construction, to control air movement through the wall.

1.3 PERFORMANCE REQUIREMENTS

- A. General: Air barrier shall be capable of performing as a continuous vapor-retarding or permeable air barrier and as a liquid-water drainage plane flashed to discharge to the exterior incidental condensation or water penetration. Air barrier assemblies shall be capable of accommodating substrate movement and of sealing substrate expansion and control joints, construction material changes, and transitions at perimeter conditions without deterioration and air leakage exceeding specified limits.

1.4 PRECONSTRUCTION TESTING

- A. Mockup Testing: Air barrier assemblies shall comply with performance requirements indicated, as evidenced by reports based on mockup testing by a qualified testing agency.
 - 1. Owner will engage a qualified testing agency.

1.5 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm experienced in applying air barrier materials similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Apply air barrier within the range of ambient and substrate temperatures recommended by air barrier manufacturer. Protect substrates from

environmental conditions that affect performance of air barrier. Do not apply air barrier to a damp or wet substrate or during snow, rain, fog, or mist.

1.7 FLUID-APPLIED MEMBRANE AIR BARRIER

- A. Fluid-Applied, Vapor-Retarding Membrane Air Barrier: Elastomeric, modified bituminous or synthetic polymer membrane.

1. Available Products:

a. Elastomeric Modified Bituminous Membrane:

- 1) Carlisle Coatings & Waterproofing; Barriseal.
- 2) Henry Company; Air-Bloc 06.
- 3) Meadows, W. R., Inc.; Air-Shield LM.
- 4) Tremco Incorporated; ExoAir.

b. Synthetic Polymer Membrane:

- 1) Grace, W. R. & Co.; Perm-A-Barrier Liquid.
- 2) Henry Company; Air-Bloc 21 or 21S.
- 3) Rubber Polymer Corporation; Rub-R-Wall Airtight.

- B. Fluid-Applied, Vapor-Permeable Membrane Air Barrier: Elastomeric, modified bituminous or synthetic polymer membrane.

1. Available Products:

a. Elastomeric, Modified Bituminous Membrane:

- 1) Henry Company; Air-Bloc 07.

b. Synthetic Polymer Membrane:

- 1) Henry Company; Air-Bloc 31 or 33.

2. Physical and Performance Properties:

1.8 SURFACE PREPARATION

- A. Clean, prepare, treat, and seal substrate according to manufacturer's written instructions. Provide clean, dust-free, and dry substrate for air barrier application.

1.9 AIR BARRIER MEMBRANE INSTALLATION

- A. Apply air barrier membrane to form a seal with strips and transition strips and to achieve a continuous air barrier according to air barrier manufacturer's written instructions.

- B. Apply air barrier membrane within manufacturer's recommended application temperature ranges.

1.10 CLEANING AND PROTECTION

- A. Protect air barrier system from damage during application and remainder of construction period, according to manufacturer's written instructions.
 - 1. Protect air barrier from exposure to UV light and harmful weather exposure as required by manufacturer. Remove and replace air barrier exposed for more than 30 days.
 - 2. Protect air barrier from contact with creosote, uncured coal-tar products, TPO, EPDM, flexible PVC membranes, and sealants not approved by air barrier manufacturer.

END OF SECTION 07 2726