

SECTION 07 27 26
FLUID APPLIED MEMBRANE AIR BARRIER

PART 1 - GENERAL

1.1 DESCRIPTION:

This section specifies materials and workmanship. Air barrier shall be capable of performing as a continuous vapor- 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.

1.2 SUBMITTALS:

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
 - 1. Product description.
 - 2. Application instructions.

1.3 APPLICABLE PUBLICATIONS:

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. The following standards are applicable to this section:
 - 1. ASTM E283-91: Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specific Pressure Differences Across the Specimen.
 - 2. ASTM E330-90: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
 - 3. ASTM E96: Water Vapor Transmission of Materials.
 - 4. CGSB 37-GP-56M: Membrane, Modified, Bituminous, Prefabricated, and Reinforced.

PART 2 - PRODUCTS

2.1 Obtain all components and accessories as a single source from membrane manufacturer.

2.2 SPRAY APPLIED VAPOR PERMEABLE MEMBRANE AIR BARRIER.

- A. One component elastomeric synthetic polymer membrane.

1. Membrane Air Permeance: Not to exceed 0.004 cfm x sq. ft. of surface area at 1.57-lbf/sq. ft. (0.02 L/s x sq. m of surface area at 75-Pa) pressure difference; ASTM E 2178.
2. Membrane Vapor Permeance: Not to exceed 0.1 perm (5.8 ng/Pa x s x sq. m); ASTM E 96, method B.

2.3 Modified Bituminous Flashing/Transition Strip:

- A. Vapor-retarding, 40-mil- (1.0-mm-) thick, smooth-surfaced, self-adhering; consisting of 36 mils (0.9 mm) of rubberized asphalt laminated to a 4-mil- (0.1-mm-) thick polyethylene film with release liner backing.

2.4 Adhesive-Coated Transition Strip:

- A. Vapor-permeable, 17-mil- (0.43-mm-) thick, self-adhering strip consisting of an adhesive coating over a permeable laminate with a permeance of 37 perms (2145 ng/Pa x s x sq. m).

2.5 Primer:

- A. Liquid waterborne primer recommended for substrate by manufacturer of air barrier material.

PART 3 - EXECUTION

3.1 SURFACE PREPARATION:

- A. Surfaces to receive membrane shall be clean and smooth.
- B. Remove foreign matter, loose particles of mortar or other cementitious droppings.
- C. Clean and wash soil, grease or dirt particles from surface.
- D. surfaces shall be dry.

3.2 APPLICATION:

- A. Comply with Manufacturer written instructions for methods and rates of membrane application and protection.
- B. Apply each coat at the rate of not less than 90 mils.
- C. Apply when temperatures are above 40 degrees F.
- D. 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 60 days.

3.3 LOCATION:

- A. Apply to surfaces where shown.
- B. Apply to form continuous barrier from below grade structures to roof membrane.

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