

SECTION 07270

AIR INFILTRATION BARRIERS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
1. Building wrap.
 2. Air Barrier Tape.
 3. Sill-Sealer Gaskets.

1.2 AIR INFILTRATION BARRIER MATERIALS

- A. Air-Infiltration Barrier: Proprietary building wrap with flame-spread and smoke-developed ratings of less than 25 and 450, respectively, when tested according to ASTM E 84. Provide one of the following products:
1. Polyethylene sheet; 0.0038 to 0.0064 inch thick; formed by spinning continuous strands of fine, high-density-polyethylene interconnected fibers and bonding them together by heat and pressure; incorporating an additive to provide ultraviolet light resistance for up to 120 days; and with a water-vapor transmission rate equaling 535 g through 1 sq. m of surface in 24 hours according to ASTM E 96, Desiccant Method (Method A).
 - a. Product: Subject to compliance with requirements, provide "Tyvek Housewrap" by DuPont Company.
 2. Polypropylene sheet; 0.0115 inch thick; consisting of spun-bonded polypropylene substrate with a polypropylene coating attached directly to one side; and with a water-vapor transmission rate equaling 125 g through 1 sq. m of surface in 24 hours according to ASTM E 96, Desiccant Method (Method A).
 - a. Product: Subject to compliance with requirements, provide "Typar HouseWrap" by Reemay, Inc.
 3. Laminated polyethylene sheet; 0.003 inch thick; consisting of 2 plies of microperforated, cross-laminated, high-density-polyethylene sheet; and with a water-vapor transmission rate equaling 125 g through 1 sq. m of surface in 24 hours according to ASTM E 96, Desiccant Method (Method A).
 - a. Product: Subject to compliance with requirements, provide "Rufco-Wrap" by Raven Industries, Inc.
 4. Woven polyolefin sheet; 0.005 inch thick; with a water-vapor transmission rate equaling 63 g through 1 sq. m of surface in 24 hours according to ASTM E 96, Desiccant Method (Method A).
 - a. Product: Subject to compliance with requirements, provide "Barricade Building Wrap" by Anthony Industries; Simplex Products Division.
- B. Air Barrier Tape: Pressure-sensitive plastic tape recommended by air barrier manufacturer for sealing joints and penetrations in air barrier.

- C. Sill-Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch thick, selected from manufacturer's standard widths to suit width of sill members indicated.

PART 2 - EXECUTION

2.1 AIR-INFILTRATION BARRIER APPLICATION

- A. Cover wall sheathing with air barrier as indicated.
 - 1. Comply with manufacturer's written instructions.
 - 2. Cover upstanding flashing with 4-inch overlap.
 - 3. Seal seams, edges, and penetrations with tape.
 - 4. Extend into jambs of openings and seal corners with tape.

END OF SECTION