SECTION 07195

AIR INFILTRATION BARRIER

1 PART 1 GENERAL

1.1 SUMMARY:

 A. Includes but not limited to: Furnish and install over exterior of wall sheathing at all locations regardless of whether or not indicated on drawings to protect exterior sheathing and interior walls.

1.2 REFERENCES:

- A. AATCC 127
- B. TAPPI T 460 (sec/100cc)
- C. ASTME 96 (g/m2 –24 hr.)

1.3 SUBMITTALS:

- A. General: Submit each item in this Article according to the conditions of the Contract and Division I Specifications Sections.
- B. Product Data: Submit product specifications, technical data and installation instructions of manufacturer equaling or exceeding those specified.

2 PART 2 PRODUCTS

2.1 AIR INFILTRATION BARRIER/SECONDARY WEATHER RISISTIVE MEMBRANE:

- A. Spun-bonded olefin, None-woven, Non-perforated.
- B. Performance Requirements
 - 1. Water penetration resistance of 210 cm in accordance with AATCC 127
 - 2. Air infiltration at 300 seconds in accordance with TAPPI T 460 (sec/100cc)
 - Water vapor transmission of 58 perms in accordance with ASTM E 96 Method B(g/m2 - 24 hr.)
 - 4. Basis weight of 2.5oz/yd in accordance with TAPPIT- 410
- C. Membrane shall be free from holes and breaks other than those created by fasteners and construction system due to attachment
- D. Approved Manufacturer:
 - 1. DuPont Tyvek® CommercialWrap® by DuPont Company, Wilmington, Delaware

2. No Alternates or Substitutions

2.2 SEALING TAPE/FASTENERS

- A. Approved Tape Manufacturers:
 - 1. DuPont Contractor Tape, by DuPont Company, Wilmington Delaware
- B. Recommended Fasteners for Wood Framed construction:
 - 1. Nails with large Heads or plastic washers.
- C. Recommended Fasteners for Steel Framed Construction:
 - 1. Rust resistant screws with washers
- D. Recommended Fastening to Masonry:
 - 1. Polyurethane or elastomeric adhesives

3 PART 3 EXECUTION

3.1 AIR INFILTRATION BARRIER

- A. Install Air Infiltration Barrier over exterior side of exterior wall sheathing.
- B. Install Air Infiltration Barrier after sheathing is installed and before windows and doors are installed. Install lower level barrier prior to upper layers to ensure proper shingling of layers.
- C. Overlap Air Infiltration Barrier at corners of building by a minimum of 12 inches.
- D. Overlap Air Infiltration Barrier vertical seams by a minimum of 6 inches.
- E. Ensure barrier is plum and level with foundation, and unroll extending Air Infiltration Barrier over window and door openings.
- F. Attach Air Infiltration Barrier to wood, insulated sheathing board or exterior gypsum with plastic cap nails every 12" to 18" on vertical stud line with wood stud framing, and screws with washers to metal stud framing.
- G. Prepare window and door rough openings as follows:
 - 1. Prepare each window rough opening by cutting a modified "I" pattern in the Air Infiltration Barrier. This is done as follows:
 - a. Horizontally cut Air Infiltration along bottom of header.
 - b. Vertically cut Air Infiltration Barrier down the center of window openings from the top of the window opening down to 2/3 of the way to the bottom of the window openings.
 - c. Diagonally cut Air Infiltration Barrier from the bottom of the vertical cut to the left and right corners of opening.

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- d. Fold side and bottom flaps into window opening and fasten every 6 inches. Trim off excess.
- 2. Prepare each rough door opening by cutting a standard "I" pattern in the Air Infiltration Barrier. This is done as follows:
 - a. Horizontally cut Air Infiltration Barrier along bottom of door frame header and along top of sill.
 - b. Vertically cut Air Infiltration Barrier down the center of door openings from the top of the door opening (header) down to the bottom of the door opening (sill).
 - c. Fold side flaps inside around door openings and fasten every 6 inches. Trim off excess.
- H. Tape all horizontal and vertical seam of Air Infiltration Barrier.
- I. Tape a patch over all tears and cuts in Air Infiltration Barrier.

... END OF SECTION