

Valéron Vortec™
Ludlow Coated Products WeatherTrek™
Water Resistant Barrier (WRB)

Section 07270

PART 1 GENERAL

- 1.1 Summary:
 - A. Includes but not limited to:
Furnish and install WRB 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 Related Sections
 - A. Section 05400 – Cold Formed Metal Framing
 - B. Section 06160 – Sheathing
 - C. Section 07240 – Exterior Insulation and Finish Systems (EIFS)
 - D. Section 07260 – Vapor Retarders
 - E. Section 07610 – Flashing and Sheet Metal\
- 1.02 References:
 - A. American Society for Testing and Materials
- 1.03 Submittals:
 - A. Comply with Section 01330 – Submittal Procedures
 - B. General: Submit each item in this Article according to the conditions of the Contract and Division I Specifications Sections.
 - C. Product Data: Submit product specifications, technical data and installation instructions of manufacturer equaling or exceeding those specified.
 - D. Samples: Submit manufacturer's samples of water-resistive barrier.
- 1.04 Quality Assurance
 - A. Qualifications:
 - 1. Installer with successful experience in the installation of water resistant barriers.

PART 2 – PRODUCTS

2.01 Manufacturers

A. Acceptable Manufacturers:

**Valéron Strength Films,
an ITW Company
9505 Bamboo Rd.
Houston, Texas, USA 77041
www.valeronvortec.com
Contact: 1-800-825-3766**

**Ludlow Coated Products
5312 Water Tower Road
Meridian, Mississippi, USA 39301
www.weathertrek.net
Contact: 1-877-832-0333**

2.02 Materials

A. **Valéron Vortec™ or Ludlow Coated Products WeatherTrek™:** A cross-laminated, embossed and micro-perforated high strength film used as a secondary water resistant barrier.

B. Performance Characteristics –

1. ASTM E-2273 Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies Exceeds 90% requirement (93% Drainage)
2. ASTM D 779, Water-Resistance; exceeds the 60 minute requirement.
3. CCMC 07102, Water-Ponding Test; exceeds the 2 hour requirement.
4. ASTM E 96 Method B (g/m²–24hr.) Water vapor transmission of 55
5. ASTM E 96 Method B, Water Vapor Transmission, 8 US perms
6. TAPPI T-41D, Basis weight of 2.1oz/yd
7. ASTM E 1677, Air Retarder Material Standard Specification, Type I air barrier
8. ASTM E 2273, Drainage Efficiency of EIFS Wall Assemblies; exceeded 90% wall drainage efficiency.

9. ASTM E-84, Flame Spread Classification; meets the requirements for UBC Class 1.
10. Nominal Thickness - 3.0mil / .003 in.

B. Sealing Tape/Fasteners

1. For steel or wood frame construction: Use large headed or plastic cap nails or minimum 1" crown staples. Recommended ITW Paslode fasteners or approved alternate.

PART 3 – EXECUTION

3.01 Installation

- A. A. Install Water Resistive Barrier over exterior side wall sheathing.
 1. Install Water Resistive 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.
 2. Overlap Water Resistive Barrier at corners of building by a minimum of 12 inches.
 3. Overlap Water Resistive Barrier vertical seams by a minimum of 6 inches for a shingle effect for proper water drainage.
 4. Ensure Water Resistive Barrier is perpendicular and level with foundation, and unroll with printed side out extending Water Resistive Barrier over window and door openings.
 5. Ensure barrier is applied over back edge of weep screed for proper water drainage.
 6. Attach WRB to wood, insulated sheathing board or exterior gypsum with (a) 0.75 inch or wider head staples, (b) galvanized roofing nails, (c) large head nails, or (d) screws with washers (Steel frame). Fasteners should be used every 16 or 24 inches along the horizontal header, sill plate and vertical studs. Extra fasteners should be placed around each opening to be cut.
 7. Prepare window and door rough openings as follows:
 - a. Prepare each window rough opening by cutting an inverted "Y" in the Water Resistive Barrier.
 1. Horizontally cut Water Resistive Barrier along bottom of header.
 2. Vertically cut Water Resistive 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.
 3. Diagonally cut Water Resistive Barrier from the bottom of the vertical cut to the left and right corners of opening.

4. Fold the three flaps into the window opening and fastening them inside every 6 inches. Trim off excess.
- b. Prepare each rough door opening by cutting an inverted “Y” pattern in the Water Resistive Barrier.
 1. Horizontally cut Water Resistive Barrier along bottom of door frame header and along top of sill.
 2. Vertically cut Water Resistive Barrier down the center of door openings from the top of the door opening (header) down to the bottom of the door opening (sill).
 3. Fold side flaps inside around door openings and fasten them inside every 6 inches. Trim off excess.
- B. For maximum performance:
1. Install windows, doors and flashing with manufacturer’s instructions.
 2. Tape all horizontal and vertical seams of Water Resistive Barrier.
 3. Seal all edges, punctures and overlaps in Water Resistive Barrier with Contractor Sheathing Tape or approved alternate.
 4. Cover WRB by approved siding product within 12 months of installation, following the siding manufacturer’s. Valeron is not intended to perform the function of an exterior siding product and should be covered as soon as possible

End of Section