

ICC-ES Evaluation Report

ESR-3140

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 25 00—Water-Resistive Barriers/Weather Barriers
Section: 07 27 00—Air Barriers

REPORT HOLDER:

ALPHA PROTECH ENGINEERED PRODUCTS, INC.
301 SOUTH BLANCHARD STREET
VALDOSTA, GEORGIA 31601
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EVALUATION SUBJECT:

REX WRAP FORTIS WATER-RESISTIVE BARRIER AND AIR BARRIER MATERIAL

1.0 EVALUATION SCOPE**Compliance with the following codes:**

- 2009 *International Building Code*® (2009 IBC)
- 2009 *International Residential Code*® (2009 IRC)
- 2009 *International Energy Conservation Code*® (2009 IECC)
- 2006 *International Building Code*® (2006 IBC)
- 2006 *International Residential Code*® (2006 IRC)
- 2006 *International Energy Conservation Code*® (2006 IECC)

Properties evaluated:

- Water resistance
- Air barrier

2.0 USES

REX Wrap Fortis is used as a water-resistive barrier on the exterior side of exterior walls of buildings of Type V-B construction under the IBC and non-fire-resistance-rated construction permitted under the IRC. It is equivalent to a 60-minute Grade D paper as described in IBC Section 2510.6 and IRC Section R703.6.3. The product may also be used as an air barrier material under IRC section N1102.4.1 and IECC Sections 402.4 and 502.4.

3.0 DESCRIPTION

REX Wrap Fortis consists of layers of nonwoven and woven polyolefins with a nonperforated vapor-permeable polyolefin surface layer. The product has a nominal basis

weight of 2.25 oz/yd² (76.3 g/m²). When used as an air barrier material, the product has an air leakage rate not exceeding 0.02 L/(s·m²) @ 75 Pa [0.004 cfm/ft² at 0.3 inch w.g. (1.57 psf)].

4.0 INSTALLATION**4.1 General:**

The manufacturer's published installation instructions and this report must be strictly adhered to. If requested by the code official, a copy of this report must be available at the jobsite during installation. The use of tape to seal seams is optional, except where required by the manufacturer's installation instructions.

4.2 Water-resistive Barrier:

When installed as a water-resistive barrier, REX Wrap Fortis is installed after wall framing is completed and before windows and doors are installed. The roll is placed a minimum of 6 inches (152 mm) from the starting corner and fastened to the sheathing with corrosion-resistant nails with minimum 1-inch-diameter (25.4 mm) plastic washer heads or cap heads, spaced at a maximum of 16 inches (406 mm) on center, or corrosion-resistant staples with minimum 1-inch crowns, spaced a maximum of 16 inches (406 mm) on center; and is then unrolled around the building and fastened with nails or staples spaced at a maximum of 16 inches (406 mm) on center. The printed side of the wrap is installed facing the exterior. A minimum of 6 inches (152 mm) of overlap must be provided for vertical seams and 2 inches (51 mm) for horizontal seams, except where the manufacturer's installation instructions specify a greater overlap. When used over wood-based sheathing in exterior plaster applications, the product must be applied over the sheathing in accordance with IBC Section 2510.6 or IRC Section R703.6.3, using two layers of the product or using one layer together with an intervening layer. For cementitious coatings or exterior insulation and finished systems, application must be in accordance with the evaluation report on the exterior coating.

4.3 Air Barrier

When used as an air barrier, the product must be installed in accordance with the manufacturer's installation instructions and this report.

5.0 CONDITIONS OF USE:

The REX Wrap Fortis product described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The product must be installed in accordance with the manufacturer's published installation instructions, the requirements of the applicable code and this report. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.
- 5.2 The product must be covered with an approved exterior wall covering complying with the applicable code.
- 5.3 The air leakage rate noted in Section 3.0 is for the product as an air barrier material only. The design and evaluation of an air barrier assembly, of which this product is a component, is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with ICC-ES Acceptance Criteria for Water-resistive Barriers (AC308), dated October 2009
- 6.2 Reports of air leakage testing in accordance with ASTM E 2178

7.0 IDENTIFICATION

The REX Wrap Fortis product is identified by a label at regular intervals along each roll that includes the report holder's name (Alpha ProTech Engineered Products), the product name, the date of manufacture, installation instructions, roll dimensions and the evaluation report number (ESR-3140).