

ICC-ES Evaluation Report

ESR-1602

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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.
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EVALUATION SUBJECT:

REX WRAP PLUS PROTECTIVE HOUSE WRAP AND REX WRAP HOMEWRAP WATER-RESISTIVE BARRIERS AND AIR BARRIERS

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 Leakage

2.0 USES

Rex Wrap Plus Protective House Wrap and Rex Wrap HomeWrap are used as water-resistive barriers on the exterior side of exterior walls of buildings of Type V-B construction and non-fire-resistance-rated construction permitted under the IRC. Rex Wrap Plus Protective House Wrap and Rex Wrap HomeWrap are alternatives to the water-resistive barriers specified in IBC Section 1404.2 and IRC Section R703.2. The products are considered equivalent to 60-minute Grade D paper as described in IBC Section 2510.6 and IRC Section R703.6.3. The products may also be used as air barrier materials under IRC Section N1102.4.1 and IECC Sections 402.4 and 502.4.

3.0 DESCRIPTION

3.1 Rex Wrap Plus:

Rex Wrap Plus consists of a perforated, microporous, woven polyolefin fabric, with an additional polyolefin coating. The sheets have an average weight of 14.52 pounds per 1000 square feet (0.075 kg/m²) and are produced in rolls of varying size.

3.2 Rex Wrap HomeWrap:

Rex Wrap HomeWrap is similar to Rex Wrap Plus, except that Rex Wrap HomeWrap has an average weight of 13.47 pounds per 1000 square feet (0.065 kg/m²).

3.3 Air Barriers

The products described in this report have an air leakage rate not exceeding 0.02 L/s/m² at 75 Pa [0.004 cfm/ft² at 0.3 w.g. (1.57 psf)] when used as an air barrier material under IRC Section N1102.4.1 and IECC Section 402.4 or 502.4.

4.0 INSTALLATION

When installed as a water-resistive barrier or an air barrier, 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. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

Rex Wrap Plus Protective House Wrap and Rex Wrap HomeWrap are 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 having 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 (25.4 mm) crowns, spaced a maximum of 12 inches (305 mm) on center; and is then unrolled around the building and fastened with nails spaced at a maximum of 16 inches (406 mm) on center or staples spaced a maximum of 12 inches (305 mm) on center. The printed side of the wrap is installed facing the outside. A minimum of 6 inches (102 mm) of overlap must be provided for vertical seams and 2 inches (152 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 finish systems, application must be in accordance with the evaluation report on the exterior coating.

5.0 CONDITIONS OF USE

The Rex Wrap Plus and Rex Wrap HomeWrap water-resistive barriers described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The manufacturer's published installation instructions and this report must be strictly adhered to. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.
- 5.2** The membrane must be covered in accordance with the manufacturer's installation instructions with an approved exterior wall covering complying with the applicable code.

- 5.3** This report is based on air leakage rates for the products as an air barrier material only. The design and evaluation of the air barrier assembly, of which the products are a component, is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

Data in accordance with ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated February 2011.

7.0 IDENTIFICATION

Rex Wrap Plus and Rex Wrap HomeWrap products are identified by a label on the container and by printing at regular intervals on the product, bearing the report holder's name (Alpha ProTech Engineered Products, Inc.), the manufacturing location (Valdosta, Georgia), the product name (Rex Wrap Plus or Rex Wrap HomeWrap), and the evaluation report number (ESR-1602).