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ICC-ES Report

ESR-3140

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Reissued 08/2015
This report is subject to renewal 08/2017.

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**

EVALUATION SUBJECT:

REX WRAP FORTIS WATER-RESISTIVE BARRIER AND AIR BARRIER MATERIAL



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ESR-3140

Reissued August 2015

Corrected August 15, 2016

This report is subject to renewal August 2017.

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PROTECTION**
**Section: 07 25 00—Water-Resistive Barriers/Weather
Barriers**
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ALPHA PROTECH ENGINEERED PRODUCTS, INC.
 301 SOUTH BLANCHARD STREET
 VALDOSTA, GEORGIA 31601
www.alphaprotech.com
EVALUATION SUBJECT:
**REX WRAP FORTIS WATER-RESISTIVE BARRIER AND
AIR BARRIER MATERIAL**
ADDITIONAL LISTEES:
NORANDEX
 1 ABC PARKWAY
 BELOIT, WISCONSIN 53511
 (877) 262-7238
www.noradex.com
AMCRAFT
 1 ABC PARKWAY
 BELOIT, WISCONSIN 53511
 (877) 262-7238
www.amcraft.com
1.0 EVALUATION SCOPE
Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2015, 2012, 2009 and 2006 *International Energy Conservation Code*® (IECC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

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. REX Wrap Fortis is an alternative to the water-resistive barrier specified in IBC Section 1404.2 and IRC Section R703.2. REX Wrap Fortis is equivalent to a Grade D paper as described in 2012, 2009 and 2006 IBC Section 2510.6 and IRC Section R703.6.3 under the 2012, 2009 and 2006 IRC and Section R703.7.3 under the 2015 IRC. The product may also be used as an air barrier material under Section N1102.4.1 of the IRC, Sections C402.5 and R402.4 of the 2015 IECC, Section C402.4 and R402.4 of the 2012 IECC and Sections 402.4 and 502.4 of the 2009 and 2006 IECC.

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 2.95 oz/yd² (100 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 2012, 2009 and 2006 IBC Section 2510.6 or IRC Section R703.6.3 under the 2012, 2009 and 2006 IRC and Section R703.7.3 under the 2015 IRC,, using two layers of the product. 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 (AC38), dated January 2015.
- 6.2 Reports of air leakage testing in accordance with ASTM E2178

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).

Alternatively, each roll of the product described in this report is marked by a label on the container bearing the additional listee's brand name (NORANDEX or PROGUARD), the product name (See table 1 of this report), the date of manufacture, and the evaluation report number (ESR-3140).

TABLE 1—COMPANY NAME, BRAND NAME AND PRODUCT NAME CORRELATION

COMPANY	Alpha Protech Engineered Building Products	NORANDEX	AMCRAFT
BRAND NAME	REX	NORANDEX	PROGUARD
PRODUCT NAME	REX™ Wrap Fortis	NORANDEX PREMIUM	ProGuard Premium