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ICC-ES Evaluation Report

ESR-3791

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Reissued 07/2018
This report is subject to renewal 07/2020.

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:

FORTIFIBER BUILDING SYSTEMS GROUP®

EVALUATION SUBJECT:

WEATHERSMART® DRAINABLE



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 25 00—Water-Resistive Barriers/Weather Barriers

Section 07 27 00—Air Barriers

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FORTIFIBER BUILDING SYSTEMS GROUP®

EVALUATION SUBJECT:

WEATHERSMART® DRAINABLE

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2012, 2009 and 2006 *International Energy Conservation Code*® (IECC)

Properties evaluated:

- Physical properties
- Surface-burning characteristics
- Air leakage

1.2 Evaluation to the following green code(s) and/or standards:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015 and 2012 *International Green Construction Code*® (IgCC)
- 2014 and 2011 ANSI/ASHRAE/USGBC/IES Standard 189.1—Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 3.0

2.0 USES

WeatherSmart® Drainable is used as an alternative to the water-resistive barrier on the exterior side of exterior walls of buildings of all construction types under the IBC and any construction permitted under the IRC. Under the 2012 IBC,

the water-resistive barrier may be used on buildings of Type I, II, III and IV construction that are not greater than 40 feet (12.2 m) in height above grade in accordance with 2012 IBC Section 1403.5.

The product is an alternative to the water-resistive barrier specified in IBC Section 1404.2 and IRC R703.2 and may be used to provide an air barrier in accordance with Section N1102.4.1 of the IRC, Section C402.4.1 of the 2012 IECC [Section 502.4.3 of the 2009 and 2006 IECC].

WeatherSmart® Drainable is also used as an alternative to the 60-minute Grade D building paper described in the exception to IBC Section 2510.6 and IRC Section R703.6.3.

3.0 DESCRIPTION

WeatherSmart® Drainable is comprised of a spunbond polypropylene fabric and non-perforated breathable barrier layer, including stabilizing agents for ultraviolet light and thermal cycling. The product has been embossed for drainage efficiency. The finished product is produced in rolls of varying sizes.

WeatherSmart® Drainable has an air leakage rate not exceeding 0.02 L/s-m² [0.004 cfm/ft² at 0.3 w.g. (1.57 psf)] when used to provide an air barrier in accordance with Section N1102.4.1 of the IRC, Section C402.4.1 of the 2012 IECC and Section 502.4.3 of the 2009 and 2006 IECC.

WeatherSmart® Drainable has a flame-spread index of less than 25 and a smoke-developed index of less than 450, when tested in accordance with ASTM E84.

The attributes of the WeatherSmart® Drainable have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers and Section A4.407.5 for air barriers; (ii) 2015 and 2012 IgCC Section 605.1.2.1 for air barriers; (iii) 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (v) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (vi) ICC 700-2008 Section 602.9 for water-resistive barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

4.0 INSTALLATION

WeatherSmart® Drainable must be installed in accordance with the manufacturer's published installation instructions

and this report. 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.

The WeatherSmart® Drainable water-resistive barrier described in this report is installed after wall framing is completed and before or after windows and doors are installed. The roll is placed approximately 12 inches (305 mm) from the starting corner and is fastened to the sheathing with corrosion-resistant staples, corrosion-resistant nails, or corrosion-resistant nails or staples having plastic washer heads, and is then unrolled around the building and fastened with nails or staples spaced no more than 24 inches (609 mm) on center. The printed side of the barrier is installed facing the outside. A minimum of 6 inches (152 mm) of overlap is to be provided for vertical seams and 2 inches (51 mm) for horizontal seams, except where the manufacturer's installation instructions specify a greater overlap dimension.

When used as an alternative to the 60-minute Grade D building paper over wood-based sheathing, WeatherSmart® Drainable must be separated from the stucco in accordance with the exception of IBC Section 2510.6 and IRC Section R703.6.3 or by an intervening layer of Super Jumbo Tex 60 Minute Grade D Building Paper (recognized in ESR-1027). For cementitious coatings or exterior insulation and finish systems, application is to be in accordance with the evaluation report on the exterior coating.

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

5.0 CONDITIONS OF USE

The WeatherSmart® Drainable water-resistive barrier 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 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 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 This report provides air leakage rates for the product as a component of an air barrier assembly only. The design and evaluation of the air barrier assembly of which WeatherSmart® Drainable is a component must be provided to the satisfaction of the code official.

5.4 WeatherSmart® Drainable is manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated January 2015 (editorially revised April 2015).

6.2 Reports of testing in accordance with ASTM E84.

6.3 Reports of testing in accordance with ASTM E2178.

6.4 Reports of drainage tests in accordance with AC38 and ASTM E2273.

7.0 IDENTIFICATION

WeatherSmart® Drainable is identified by a label on the container of each roll of material and by printing on the product bearing the report holder's name (Fortifiber Building Systems Group®), the product name and the evaluation report number (ESR-3791).

7.1 The report holder's contact information is the following:

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(775) 333-6400
www.fortifiber.com