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ESR-1027

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Reissued 10/2016

This report is subject to renewal 10/2018.

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®

**300 INDUSTRIAL DRIVE
FERNLEY, NEVADA 89408**

EVALUATION SUBJECT:

**JUMBO TEX®, JUMBO TEX HD 30 MINUTE®, SUPER JUMBO TEX 60 MINUTE®,
WEATHERSMART®, TWO-PLY WEATHER TEX®, TWO-PLY HYDRO TEX®, AND
PLYDRY® WATER-RESISTIVE BARRIERS**



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Section: 07 27 00—Air Barriers

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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)
- 1997 *Uniform Building Code™* (UBC)

Properties evaluated:

- Physical properties
- Air barrier
- Surface-burning characteristics

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

- 2013 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2012 and 2015 International Green Construction Code® (IgCC)
- 2011 and 2014 ANSI/ASHRAE/USGBC/IES Standard 189.1—Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings
- 2012 and 2008 ICC 700 *National Green Building Standard™* (ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 2.0

2.0 USES

Jumbo Tex, Jumbo Tex HD 30 Minute, Super Jumbo Tex 60 Minute, WeatherSmart, Two-Ply Weather Tex, Two-Ply Hydro Tex, and PlyDry are alternatives to the water-resistive barriers specified in IBC Section 1404.2 and IRC Section R703.2, and to the weather-resistive barriers specified in UBC Section 1402.1. When applied in two layers, they also comply with the water-resistive barrier requirements of IBC Section 2510.6, IRC Section R703.6.3 and UBC Section 2506.4.

The water-resistive barriers are used on the exterior side of exterior walls of buildings of Type V-N construction under the UBC, structures regulated under the IRC, and buildings of Type V-B construction under the IBC except as noted in Section 4.2. Under the 2012 IBC, the water-resistive barriers may be used on buildings of Type I, II, III or IV construction that are not greater than 40 feet (11 192 mm) in height above grade, and comply with Section 1403.5. Under the 2009 and 2006 IBC, Jumbo Tex, Jumbo Tex HD 30 Minute, Super Jumbo Tex 60 Minute, Two-Ply Hydro Tex, WeatherSmart, and PlyDry water-resistive barriers may be used on the exterior side of exterior walls of buildings of Type I or II construction, when installed between two layers of noncombustible materials without an intervening air space.

WeatherSmart may be used as an air barrier material in accordance with IRC Section N1102.4.1 and Section 402.4 of the 2012 IECC (Sections 402.4 and 502.4 of the 2009 and 2006 IECC).

The attributes of the water-resistive barriers have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers; (ii) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (iii) ICC 700-2008 Section 602.9 for water-resistive barriers.

The attributes of WeatherSmart have been verified as conforming to the provisions of (i) CALGreen Section A4.407.5 for air barriers; (ii) 2012 and 2015 IgCC Section 605.1.2.1 for air barriers; and (iii) 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air 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.

3.0 DESCRIPTION

3.1 Jumbo Tex:

Jumbo Tex is a Grade D asphalt-saturated kraft building

paper. Jumbo Tex weighs 3.6 pounds per 100 square feet (0.18 kg/m²) and is manufactured in rolls of varying sizes.

3.2 Jumbo Tex HD 30 Minute:

Jumbo Tex HD 30 Minute is a Grade D asphalt-saturated kraft building paper weighing 3.9 pounds per 100 square feet (0.19 kg/m²) and is manufactured in rolls of varying sizes.

3.3 Super Jumbo Tex 60 Minute:

Super Jumbo Tex 60 Minute is a Grade D asphalt-saturated kraft building paper with a 60-minute water-resistance rating. Jumbo Tex weighs 6 pounds per 100 square feet (0.29 kg/m²) and is manufactured in rolls of varying sizes.

3.4 WeatherSmart:

WeatherSmart is a Grade D, nonwoven, polypropylene fabric with a monolithic polymer coating on one side, and has a 60-minute water-resistance rating. WeatherSmart weighs 1.9 pounds per 100 square feet (0.09 kg/m²) and is manufactured in rolls of varying sizes. When used as an air barrier material, the product has an air permeance not exceeding 0.02 L/(s m²) @ 75 Pa [0.004 cfm.ft² at 0.3 w.g. (1.57 psf)].

3.5 Two-Ply Weather Tex:

Two-Ply Weather Tex is a two-layer water-resistive barrier composed of one layer of WeatherSmart, as described in Section 3.4, and one layer of Super Jumbo Tex 60 Minute, as described in Section 3.3. Weather Tex weighs 7.9 pounds per 100 square feet (0.39 kg/m²) and is manufactured in rolls of varying sizes.

3.6 Two-Ply Hydro Tex:

Two-Ply Hydro Tex is a two-layer water-resistive barrier composed of one layer of Super Jumbo Tex 60 Minute, as described in Section 3.3, and one layer of WeatherSmart® Drainable (ESR-3791). Two-Ply Hydro Tex weighs 7.4 pounds per 100 square feet (0.36 kg/m²) and is manufactured in rolls of varying sizes.

3.7 PlyDry:

PlyDry is a Grade D woven fabric with a polyolefin coating, microperforated for water vapor permeability. PlyDry weighs 1.18 pounds per 100 square feet (0.06 kg/m²) and is manufactured in rolls of varying sizes.

3.8 Surface Burning Characteristics:

The Jumbo Tex, Jumbo Tex HD 30 Minute, Super Jumbo Tex 60 Minute, Two-Ply Weather Tex, Two-Ply Hydro Tex, WeatherSmart, and PlyDry products have a flame spread index of less than 100 and a smoke-developed index of less than 450, when tested in accordance with IBC Section 802.1.

4.0 INSTALLATION

4.1 General:

The water-resistive barriers must be installed in accordance with IBC Sections 1404.2 and 2510.6, IRC Sections R703.2 and R703.6.3, or UBC Sections 1402.1 and 2506.4, as applicable, on the exterior side of exterior wall framing, sheathing or insulation, with the printed side installed facing outward.

The water-resistive barriers described in this report are installed after wall framing is completed and before or after windows and doors are installed. The roll is placed approximately 6 inches (152 mm) from the starting corner, except where the manufacturer's installation instructions specify a greater dimension, and is fastened with corrosion-resistant staples, corrosion-resistant nails, or

corrosion nails or staples having plastic washer heads. The water-resistive barrier is then unrolled horizontally around the building and fastened in accordance with the manufacturer's published installation instructions. 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 published installation instructions specify a greater overlap.

When the water-resistive barriers are installed over wood-based sheathing in exterior plaster applications, the water-resistive barriers must be applied in two layers over the sheathing, in accordance with IBC Section 2510.6, IRC Section R703.6.3 or UBC Section 2506.4, as applicable. When used as an alternative to the 60-minute Grade D building paper over wood-based sheathing, the water-resistive barrier must be separated from the stucco in accordance with the exception to IBC Section 2510.6 and IRC Section R703.6.3. For cementitious coatings or exterior insulation and finish systems, application is to be in accordance with the ICC-ES evaluation report on the exterior coating system.

4.2 Fire-resistance-rated Construction Assemblies:

In Type V-A construction, the Jumbo Tex, Jumbo Tex HD 30 Minute, and Super Jumbo Tex 60 Minute water-resistive barriers may be used in exterior fire-resistance-rated assemblies described in IBC Table 720.1(2), or described in a current ICC-ES evaluation report that specifies use of building paper, without changing the assigned hourly rating of the assembly.

4.3 Air Barrier:

WeatherSmart, when used as an air barrier material, must be installed in accordance with the manufacturer's published installation instructions and this report.

5.0 CONDITIONS OF USE

The 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 Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event of conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 The water-resistive barriers must be covered with an approved exterior wall covering.
- 5.3 The air permeance noted in Section 3.4 is for WeatherSmart used as an air barrier material only. The design and evaluation of an air barrier assembly, with WeatherSmart as a component, is outside the scope of this report.

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.

7.0 IDENTIFICATION

The water-resistive barriers described in this report are identified on one side, at regular intervals, with the product name, the Fortifiber Building Systems Group name and website address, and the evaluation report number (ESR-1027).