

ICC-ES Evaluation Report

ESR-1027*

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**DIVISION: 07—THERMAL AND MOISTURE PROTECTION
SECTION: 07280—Water-Resistive Barriers****REPORT HOLDER:****FORTIFIBER BUILDING SYSTEMS GROUP
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jrossner@fortifiber.com****EVALUATION SUBJECT:****JUMBO TEX®, JUMBO TEX HD 30 MINUTE®, SUPER
JUMBO TEX 60 MINUTE®, FORTIFY®, FOAM TEX®,
WEATHERSMART®, TWO-PLY WEATHER TEX™, AND
PLYDRY® WATER-RESISTIVE BARRIERS**

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- 1997 *Uniform Building Code*™ (UBC)

Property evaluated:

Physical properties

2.0 USES

Jumbo Tex, Jumbo Tex HD 30 Minute, Super Jumbo Tex 60 Minute, Fortify, Foam Tex, WeatherSmart, Two-Ply Weather Tex, and PlyDry water-resistive barriers are used on the exterior side of exterior wall framing, sheathing or insulation of buildings of Type V-B construction under the IBC, Type V-N construction under the UBC and structures regulated under the IRC.

Jumbo Tex, Jumbo Tex HD 30 Minute, Super Jumbo Tex 60 Minute, Fortify, Foam Tex, WeatherSmart, Two-Ply Weather 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.

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 Fortify:

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

3.5 Foam Tex:

Foam Tex is a Grade D asphalt-saturated kraft building paper. Foam Tex weighs 3.3 pounds per 100 square feet (0.16 kg/m²) and is manufactured in rolls of varying sizes.

3.6 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.

3.7 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 3.6, 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.

3.8 PlyDry:

PlyDry is a Grade D woven polypropylene 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.

4.0 INSTALLATION

The barriers must be installed in accordance with IBC Sections 1404.2 and 2510.6, IRC Section R703.2, 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.

***Corrected December 2009**

The barriers must be installed in accordance with the manufacturer's published installation instructions, this report and the applicable code. For installation over solid sheathing, the barriers must be fastened with either $\frac{3}{8}$ -inch-diameter-head (9.5 mm) nails with sufficient length to penetrate through the sheathing or $\frac{3}{4}$ inch (19 mm) into the framing members, or with staples having a 1-inch crown (25.4 mm) and 1-inch (25.4 mm) legs. For installation over foam plastic insulation board, the barriers must be fastened with $\frac{3}{4}$ -inch-diameter-head (19 mm) nails with sufficient length to penetrate through the sheathing or $\frac{3}{4}$ inch (19 mm) into the framing members without crushing the foam board.

When the barriers are installed over wood-based sheathing in exterior plaster applications, the barriers must be applied in two layers over the sheathing, in accordance with Section 2510.6 of the IBC, Section R703.6.3 of the IRC or Section 2506.4 of the UBC, as applicable. When installed under cementitious coatings or exterior insulation and finish systems, application of the barrier must be in accordance with the ICC-ES evaluation report on the exterior coating system.

The barrier must be installed horizontally and started approximately 24 inches (610 mm) from an outside corner, with the height of the roll positioned to allow overlap of the sill plate and foundation to a point equal to the lowest point of the finished wall covering or an appropriate location on the weep screed. The barriers must be fastened every 30 to 36 inches (762 to 914 mm) on center along vertical members such as studs or sheathing, and 6 inches (152 mm) on center along horizontal members such as headers and sills. Horizontal seams must be overlapped a minimum of 2 inches (51 mm) and vertical seams must be overlapped a minimum of 6 inches (152 mm).

5.0 CONDITIONS OF USE

The water-resistive barriers described within 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 water-resistive barriers have only been evaluated for use on buildings of Type V-B (IBC) and Type V-N (UBC) construction and construction permitted by the IRC.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated February 2008.

7.0 IDENTIFICATION

The water-resistive barriers described in this report are identified on one side, at 4-foot (1219 mm) intervals, with the product name, the Fortifiber Building Systems Group name and address, and the evaluation report number (ESR-1027).