

ICC-ES Evaluation Report

ESR-3515

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This report is subject to renewal September 2020.

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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

REPORT HOLDER:

FORTIFIBER CORPORATION

EVALUATION SUBJECT:

WEATHERSMART® COMMERCIAL

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2009 and 2006 *International Building Code*® (IBC)
- 2009 and 2006 *International Residential Code*® (IRC)

Property evaluated:

Physical properties

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 Commercial is used as a water-resistive barrier on the exterior side of exterior walls of buildings in any construction type under the IBC and construction under the IRC. The barrier complies with IBC Section 1404.2 and IRC Section R703.2, and is also considered equivalent to Grade D paper as specified in IBC Section 2510.6 and IRC Section R703.6.3.

WeatherSmart Commercial may be used as an air barrier material when installed as described in Section 4.3.

3.0 DESCRIPTION

WeatherSmart Commercial is made of a nonwoven polyolefin base and a vapor-permeable/adhesive lamination coating/film. WeatherSmart Commercial is yellow in color and nonperforated, has a basis weight of 4.7 oz/yd² (160 g/m²), and is available in 5-foot and 10-foot widths in various lengths. WeatherSmart Commercial demonstrates a Class A performance when tested in accordance with ASTM E84.

The attributes of the water-resistive barrier 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) 2012 and 2015 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

4.1 Use as Water-resistive Barrier:

WeatherSmart Commercial must be installed after wall framing is completed and before windows and doors are installed. The roll must be placed a minimum of 24 inches (610 mm) from the starting corner and fastened to framing with minimum No. 12 gage corrosion-resistant nails having plastic washer heads or No. 16 gage corrosion-resistant staples with minimum 1-inch (25.4 mm) crowns. The membrane is unrolled around the building and fastened with nails or staples spaced between 12 and 18 inches (305 to 457 mm) at each vertical stud line. A minimum overlap of 6 inches (152 mm) must be provided for both vertical and horizontal seams.

4.2 Use as Air Barrier:

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

4.3 Use in Construction Types I through IV:

WeatherSmart Commercial may be used in Construction Types I through IV, when installed in accordance with the manufacturer's installation instructions and this report.

5.0 CONDITIONS OF USE

The WeatherSmart Commercial 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 installation complies with the applicable code, this report and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 The water-resistive barrier must be covered with an approved exterior wall covering complying with the applicable code.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC308), dated December 2011.

- 6.2 Air permeance testing in accordance with ASTM E2178.

- 6.3 Surface burning characteristics testing in accordance with ASTM E84.

7.0 IDENTIFICATION

- 7.1 Each roll of WeatherSmart Commercial described in this report is marked with the manufacturer's name (Fortifiber Corporation) and address, product name, date of manufacture, traceability information and the evaluation report number (ESR-3515).
- 7.2 The report holder's contact information is the following:

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