

ICC-ES Evaluation Report

ESR-2658

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 25 00—Water-Resistive Barriers/Weather Barriers

REPORT HOLDER:

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EVALUATION SUBJECT:

HARDIEWRAP™ WEATHER BARRIER WATER-RESISTIVE BARRIER

1.0 EVALUATION SCOPE
Compliance with the following codes:

- 2009 *International Building Code*® (2009 IBC)
- 2009 *International Residential Code*® (2009 IRC)
- Other Codes (see Section 8.0)

Properties evaluated:

- Water resistance
- Surface burning characteristics

2.0 USES

HardieWrap™ Weather Barrier is used as a water-resistive barrier on the exterior side of exterior walls of buildings of any construction type under the IBC and construction permitted under the IRC. The product is an alternative to the water-resistive barrier specified in IBC Section 1404.2; the product complies, when installed in two layers, as a water-resistive barrier specified in IBC Section 2510.6; and is an alternative to the water-resistive barrier specified in IRC Section R703.2. HardieWrap™ Weather Barrier is considered equivalent to a 60-minute Grade D paper in accordance with the exception to Section 2510.6 of the IBC and Section R703.6.3 of the IRC.

3.0 DESCRIPTION
3.1 General:

HardieWrap™ Weather Barrier consists of a nonperforated, nonwoven, polyolefin fabric. Sheets are available in rolls of varying size.

3.2 Surface Burning Characteristics:

HardieWrap™ Weather Barrier has a flame-spread index of less than 25 and smoke-developed index of less than 450, when tested in accordance with ASTM E 84.

4.0 INSTALLATION
4.1 General:

HardieWrap™ Weather Barrier must be installed on the exterior side of exterior walls over exterior sheathing or insulation. The printed side must be installed facing the outside.

The report holder's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available at all times on the jobsite during installation. The instructions within this report govern if there are any conflicts between the report holder's published installation instructions and this report.

4.2 Application:

HardieWrap™ Weather Barrier must be installed after wall framing is completed. The start of the roll must be placed approximately 2 to 3 feet (0.6 to 0.9 m) from the corner, and fastened using staples, large-headed nails, or roofing nails spaced a maximum of 18 inches (457 mm) on center. The wrap is then unrolled around the building and fastened with large-headed nails, roofing nails or staples spaced a maximum of 32 inches (813 mm) on center, vertically and horizontally. A minimum of 2 inches (51 mm) of overlap is required for the sheets in the horizontal direction, while 6 inches (152 mm) is required in the vertical direction.

When used over foam insulation board, the sheet must be fastened with roofing nails or other large-headed nails long enough to penetrate through the insulation into the framing studs.

When use is over wood-based sheathing in exterior plaster applications, in areas enforcing the IBC and IRC, the membrane must be installed in accordance with IBC Section 2510.6 or IRC Section R703.6.3. For cementitious coatings or exterior insulation and finish systems, application of the barrier must be in accordance with the evaluation report on the exterior coating.

5.0 CONDITIONS OF USE

The HardieWrap™ Weather 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 water-resistive barriers listed in this report must be covered by an exterior wall covering complying with the requirements of the applicable code.
- 5.2 The water-resistive barrier recognized in this report may be used in any construction type under the IBC and IRC.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), October 2009.
- 6.2 Reports of tests in accordance with ASTM E 84.

7.0 IDENTIFICATION

Sheets are identified with the James Hardie Building Products name and address, the product name and the evaluation report number (ESR-2658).

8.0 OTHER CODES

8.1 Evaluation Scope:

In addition to the codes referenced in Section 1.0, the products covered in this report were also evaluated for compliance with the requirements of the following codes:

- 2006 *International Building Code*[®] (2006 IBC)
- 2006 *International Residential Code*[®] (2006 IRC)
- BOCA[®] *National Building Code*/1999 (BNBC)
- 1999 *Standard Building Code*[®] (SBC)

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

8.2 Uses:

See Section 2.0, with the following modification: The products are also alternatives to the Type 15 felt specified in BNBC Section 1406.3.6, Type 15 felt specified in SBC Section 2303.3 and Grade D building paper as described in UBC Standard 14-1. The water-resistive barrier recognized in this report is limited to Type 5 construction under the BNBC, Type VI under the SBC and Type V under the UBC.

8.3 Description:

See Section 3.0.

8.4 Installation:

See Section 4.0, except for the following modification for the UBC: In areas enforcing the UBC, either two layers of the membrane or one layer of the membrane and one layer of an approved water-resistive barrier must be installed in accordance with UBC Section 2506.4.

8.5 Conditions of Use:

See Section 5.0.

8.6 Evidence Submitted:

See Section 6.0.

8.7 Identification:

See Section 7.0.