

ICC-ES Evaluation Report


ESR-3003

Reissued March 2024

Subject to renewal March 2026

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<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 25 00— Water-Resistive Barriers/Weather Barriers</p>	<p>REPORT HOLDER: DUPONT DE NEMOURS, INC.</p>	<p>EVALUATION SUBJECT: DUPONT WEATHERMATE™ BASIC HOUSE WRAP</p>	
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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012 and 2009 [International Residential Code® \(IRC\)](#)
- 2013 *Abu Dhabi International Building Code (ADIBC)*[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

- Other Codes (see Section 8.0)

Properties evaluated:

- Water resistance
- Surface burning characteristics

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

- 2019 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 [National Green Building Standard™](#) (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 2.0

2.0 USES

DuPont Weathermate™ Basic House Wrap 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. Under the 2021, 2018, 2015 and 2012 IBC, the water-resistive barrier may be used on buildings of Types I, II, III, or IV construction that are not greater than 40 feet (12.2 m) in height above grade plane in accordance with 2021 and 2018 IBC Section 1402.5 [2015 and 2012 IBC Section 1403.5], except as permitted under Exceptions 1 of the 2021 and 2018 IBC Section 1402.5 (2015 IBC Section 1403.5).

The product is an alternative to the water-resistive barrier specified in 2021 and 2018 IBC Section 1403.2 (2015, 2012 and 2009 IBC Section 1404.2) and IRC Section R703.2. The product complies, when installed in two layers, as a water-resistive barrier specified in the 2021, 2012 and 2009 IBC Section 2510.6 and 2021, 2018 and 2015 IRC Section R703.7.3 (2012 and 2009 IRC Section R703.6.3).

The attributes of the DuPont Weathermate™ Basic House Wrap water-resistive barrier has been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers; (ii) ICC 700-2020 Sections 602.1.8, 11.602.1.8, 1202.6 and 13.104.1.4 and ICC 700-2015 Sections 602.1.8, 11.602.1.8 and 12.6.602.1.8 (iii) ICC 700-2012 Sections 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (iv) ICC 700-2008 Section 602.9 for water-resistive barriers.

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 General:

DuPont Weathermate™ Basic House Wrap consists of a perforated, micro-porous, woven polyolefin fabric, with an additional polyolefin coating. Sheets are available in rolls of varying size.

3.2 Surface Burning Characteristics:

DuPont Weathermate™ Basic House Wrap 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.

4.0 INSTALLATION

4.1 General:

The water-resistive barrier listed in this report 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 manufacturer'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 manufacturer's published installation instructions and this report.

4.2 Application:

The water-resistive barrier listed in this report must be installed after wall framing is completed. The start of the roll must be placed a distance from the corner of approximately 2 to 3 feet (0.6 to 0.9 m), 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 nails or staples spaced a maximum of 32 inches (813 mm) on center, vertical and horizontal. A minimum of 2 inches (51 mm) of overlap is required for the sheet in the horizontal direction, while 6 inches (152 mm) is required in the vertical direction.

When used over foam insulation boards, 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 two layers of DuPont Weathermate™ Basic House Wrap must be applied over sheathing in accordance with the 2012 and 2009 IBC Section 2510.6 or 2018 and 2015 IRC Section R703.7.3 (2012 and 2009 IRC Section R703.6.3), as applicable.

When DuPont Weathermate™ Basic House Wrap is used over wood-based sheathing in exterior plaster applications in accordance with 2021 IBC Section 2510.6 and 2021 IRC Section R703.7.3 installations must be as follows:

- For dry climate zones (B) in accordance with 2021 IBC Section 2510.6.1 or 2021 IRC Section R703.7.3.1, for the product must be applied in accordance with 2021 IBC Section 2510.6.1 Item 1 and 2021 IRC Section R703.7.3.1 Item 1, as applicable.
- For moist climate zones (A) or marine climate zones (C) in accordance with 2021 IBC Section 2510.6.2 or 2021 IRC Section R703.7.3.2, the product must be applied in accordance the dry climate zone (B) provisions noted above and with the additional requirements noted in 2021 IBC Section 2510.6.2 Item 1 or 2021 IRC Section R703.7.3.2 Item 1, as applicable.

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 DuPont Weathermate™ Basic House Wrap, 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 barrier listed in this report must be covered by an exterior wall covering complying with the requirements of the applicable code.
- 5.2 The product must not be installed where ASTM E2556 Type I or II building paper is required.
- 5.3 This report is based on air leakage rates for the product as an air barrier only. The design and evaluation of the air barrier assembly, of which the product is a component, is outside the scope of this report.
- 5.4 The product is manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with [ICC-ES Acceptance Criteria for Water-resistive Barriers \(AC38\)](#), dated August 2016 (editorially revised July 2021).
- 6.2 Test reports in accordance with ASTM E84.

7.0 IDENTIFICATION

- 7.1 Sheets shall be identified with the report holders name (DuPont de Nemours, Inc.) and address, the product name, and the evaluation report number (ESR-3003).
- 7.2 The report holder's contact information is the following:

DUPONT DE NEMOURS, INC.
1501 LARKIN CENTER DRIVE
MIDLAND, MICHIGAN 48642
(812) 212-4429
www.dupont.com

8.0 OTHER CODES

8.1 Evaluation Scope:

In addition to the codes referenced in Section 1.0, the product covered in this report was 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 modifications:

The product is also an alternative to the Type 15 felt specified in BNBC Section 1406.3.6, the Type 15 felt specified in SBC Section 2303.3 and Grade D building paper as described in UBC Standard 14-1.

The product evaluated in this report is limited to the Type 5 construction under the BNBC, Type VI under the SBC and Type V under the UBC.