

# ICC-ES Evaluation Report

**ESR-3003**

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

**REPORT HOLDER:**

**THE DOW CHEMICAL COMPANY**  
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**EVALUATION SUBJECT:****DOW WEATHERMATE™ BASIC HOUSE WRAP****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- BOCA® *National Building Code*/1999 (NBBC)
- 1999 *Standard Building Code*® (SBC)
- 1997 *Uniform Building Code*™ (UBC)

**Properties evaluated:**

- Water resistance
- Surface burning characteristics

**2.0 USES**

Dow Weathermate™ Basic House Wrap is used as a water-resistive barrier on the exterior side of exterior walls.

**3.0 DESCRIPTION****3.1 General:**

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.

Dow Weathermate™ Basic House Wrap is an alternative to the water-resistive barrier specified in IBC Section 1404.2. It also 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; is an alternative to the Type 15 felt

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

**3.2 Surface Burning Characteristics:**

Dow 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 E 84.

**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 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, in areas enforcing the IBC and IRC, two layers of the product must be applied over the sheathing, in accordance with IBC Section 2510.6, IRC Section R703.6.3 or UBC Section 2506.4, 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 Dow 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 product must be installed in accordance with the report holder's published installation requirements, the requirements of the applicable code and this report. In the event of a conflict between this report and the published installation instructions, this report governs.
- 5.2** The water-resistive barriers recognized in this report may be used in any construction type under the IBC and in construction under the IRC, but are limited to Type 5 construction under the BNBC, Type VI under the SBC and Type V under the UBC.

**6.0 EVIDENCE SUBMITTED**

- 6.1** Data in accordance with ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated February 2008.
- 6.2** Test reports in accordance with ASTM E 84.

**7.0 IDENTIFICATION**

Sheets shall be identified with the report holders name (The Dow Chemical Company) and address, the product name, and the evaluation report number (ESR-3003).