

ICC-ES Evaluation Report**ESR-3394**

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**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:****BENJAMIN OBDYKE INCORPORATED**
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www.benjaminobdyke.com**EVALUATION SUBJECT:****HYDROGAP™ DRAINABLE HOUSEWRAP****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2012, 2009 and 2006 *International Energy Conservation Code*® (IECC)

Properties evaluated:

- Water-resistive barrier
- Air permeance
- Surface-burning characteristics

2.0 USES

The HydroGap Drainable Housewrap is used as an alternative to the water-resistive barrier specified in IBC Section 1404.2 and IRC Section R703.2, and is used as an air barrier material under IRC Section N1102.4 and 2012 IECC Sections 402.4 and R402.4 (2009 IECC Sections 402.4 and 502.4), when installed in all types of construction under the IBC and any construction permitted under the IRC. An exception is that recognition is limited to use in exterior walls of buildings having a maximum height of 40 feet (12.2 m) above grade plane under the 2012 IBC for Types I through IV construction.

The HydroGap Drainable Housewrap is used as an alternative to the 60-minute Grade D building paper described in the exception to IBC Section 2510.3 and IRC Section R703.6.3, when installed in accordance with

Section 4.1 and installed in Type VB construction under the IBC and any construction under the IRC.

3.0 DESCRIPTION**3.1 General:**

The HydroGap Drainable Housewrap is nominally 17 mils thick, 5 feet wide (1.52 m), and tan in color, and has nominally 1-millimeter-thick blue filaments on the exterior side.

3.2 Air Permeance:

The HydroGap Drainable Housewrap has an air leakage rate of less than 0.02 L/(s·m²) @ 75 Pa [0.004 cfm/ft² @ 0.3 inch w.g. (1.57 psf)] when tested in accordance with ASTM E2178.

3.3 Surface-burning Characteristics:

The HydroGap Drainable Housewrap 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:**

HydroGap Drainable Housewrap must be installed over sheathing with minimum 4-inch (102 mm) horizontal overlaps and 6-inch (152 mm) vertical overlaps.

When used as an alternative to the 60-minute Grade D building paper over wood-based sheathing as described in the exception to IBC Section 2510.6 and IRC Section R703.6.3, HydroGap Drainable Housewrap must be separated from the stucco by an intervening layer of EPS insulation board. The EPS insulation board must comply with ASTM C578 and have a minimum density of 1.5 pounds per cubic foot (24 kg/m³), and must be recognized in a current ICC-ES evaluation report for Type VB construction under the IBC and any construction under the IRC.

4.2 Air Barrier:

HydroGap Drainable Housewrap, when used as an air barrier material, must be installed in accordance with the manufacturer's published installation instructions and this report.

5.0 CONDITIONS OF USE

The HydroGap Drainable Housewrap 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 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 HydroGap Drainable Housewrap must be covered by an exterior wall finish complying with the requirements of the applicable code.
- 5.3 The air leakage rate noted in Section 3.0 is for the HydroGap Drainable Housewrap used as an air barrier material only. The design and evaluation of an air barrier assembly, of which this product is a component, is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated January 2013.

- 6.2 Reports of air permeability tests in accordance with ASTM E2178.
- 6.3 Reports of surface-burning characteristics testing in accordance with ASTM E84.
- 6.4 Reports of drainage tests in accordance with AC38 and ASTM E2273.

7.0 IDENTIFICATION

The products described in this report are identified by a label on the container of each roll of material and by printing on the product, with the name, address and telephone number of the report holder; the product name; and the evaluation report number (ESR-3394).