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ICC-ES Evaluation Report

ESR-3394

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This report is subject to renewal 08/2019.

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

**400 BABYLON ROAD, SUITE A
HORSHAM, PENNSYLVANIA 19044**

EVALUATION SUBJECT:

HYDROGAP™ DRAINABLE HOUSEWRAP



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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

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PRODUCT NAME: TYPAR HOUSEWRAP DW

EVALUATION SUBJECT:

HYDROGAP™ DRAINABLE HOUSEWRAP

1.0 EVALUATION SCOPE

1.1 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)
- 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.

Properties evaluated:

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

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 3.1

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 also used as an alternative to the 60-minute Grade D building paper described in the exception to IBC Section 2510.6 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.

The attributes of the HydroGap™ Drainable Housewrap have been verified as conforming to the requirements of (i) CALGreen Section 5.407.1 for water-resistive barriers and Section A4.407.5 for air barriers; (ii) 2015 and 2012 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.

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, HydroGap™ Drainable Housewrap must be separated from the stucco in accordance with the exception of IBC Section 2510.6 and IRC Section R703.6.3 or 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 or additional listee; the product name; and the evaluation report number (ESR-3394).