

# ICC-ES Evaluation Report


**ESR-4486**

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<p><b>DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION</b></p> <p><b>Section: 07 25 00—Water Resistive Barriers/ Weather Barriers</b></p> <p><b>Section: 07 27 00—Air Barriers</b></p>	<p><b>REPORT HOLDER:</b></p> <p><b>MODERN BUILDERS SUPPLY, INC.</b></p>	<p><b>EVALUATION SUBJECT:</b></p> <p><b>HYDROSHIELD HOUSEWRAP PLUS</b></p>	
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## 1.0 EVALUATION SCOPE

### 1.1 Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 [International Building Code® \(IBC\)](#)
- 2018, 2015, 2012, 2009 and 2006 [International Residential Code \(IRC\)](#)
- 2018, 2015, 2012, 2009 and 2006 [International Energy Conservation Code® \(IECC\)](#)
- 2013 *Abu Dhabi International Building Code (ADIBC)*<sup>†</sup>

<sup>†</sup>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 resistance
- Air Leakage

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

- 2022 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2024, 2021, 2018, 2015 and 2012 [International Green Construction Code® \(IgCC\)](#)
- 2023, 2020, 2017, 2014 and 2011 [ANSI/ASHRAE/USGBC/IES Standard 189.1](#)—Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings
- 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

HydroShield Housewrap Plus is used as a water-resistive barrier on the exterior side of exterior walls of buildings of Type V-B construction and non-fire-resistance-rated construction permitted under the IRC. HydroShield Housewrap Plus is an alternative to the water-resistive barrier specified in the 2018 IBC Section 1403.2 (2015, 2012, 2009 and 2006 IBC Section 1404.2) and IRC Section R703.2. The product is considered equivalent to 60-minute Grade D paper as described in 2012, 2009 and 2006 IBC Section 2510.6 and IRC Section R703.6.3 under the 2012, 2009 and 2006 IRC and Section R703.7.3 under the 2018 and 2015 IRC. The product may also be used as an air barrier material under IRC Section N1102.4.1 and Sections C402.5 and R402.4 of the 2018 and 2015 IECC; Sections C402.4 and R402.4 of the 2012 IECC and Sections 402.4 and 502.4 of the 2009 and 2006 IECC.

The attributes of Hydroshield Housewrap Plus water-resistive barrier has been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers and for air barriers; (ii) 2024 and 2021 IgCC Section 701.3.1.2, 2018 IgCC Section 701.3.1.1 and 2015 and 2012 IgCC Section 605.1.2.1 for air barriers; (iii) 2023 and 2020 ASHRAE 189.1 Section 7.3.1.2, 2017 and 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2020 Sections 602.1.8, 11.602.1.8, 1202.6 and 13.104.1.4; (v) ICC 700-2015 Sections 602.1.8, 11.602.1.8 and 12.6.602.1.8 (vi) ICC 700-2012 Sections 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (vii) 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.

## 3.0 DESCRIPTION

### 3.1 Hydroshield Housewrap Plus:

Hydroshield Housewrap Plus consists of a perforated, microporous, woven polyolefin fabric, with an additional polyolefin coating. The sheets have an average weight of 14.52 pounds per 1000 square feet (0.075 kg/m<sup>2</sup>) and are produced in rolls of varying size.

### 3.2 Air Barrier

The product described in this report has an air leakage rate not exceeding 0.02 L/s/m<sup>2</sup> at 75 Pa [0.004 cfm/ft<sup>2</sup> at 0.3 w.g. (1.57 psf)] when used as an air barrier material under IRC Section N1102.4.1 and Sections C402.5 or R402.4 of the 2018 and 2015 IECC; Sections C402.4 or R402.4 of the 2012 IECC and Sections 402.4 or 502.4 of the 2009 and 2006 IECC.

## 4.0 INSTALLATION

When installed as a water-resistive barrier or an air barrier, the manufacturer's published installation instructions and this report must be strictly adhered to. If requested by the code official, a copy of this report must be available at the jobsite during installation. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

Hydroshield Housewrap Plus is installed after wall framing is completed and before windows and doors are installed. The roll is placed a minimum of 6 inches (152 mm) from the starting corner and fastened to the sheathing with corrosion-resistant nails having minimum 1-inch-diameter (25.4 mm) plastic washer heads or cap heads, spaced at a maximum of 16 inches (406 mm) on center, or corrosion-resistant staples with minimum 1-inch (25.4 mm) crowns, spaced a maximum of 12 inches (305 mm) on center; and is then unrolled around the building and fastened with nails spaced at a maximum of 16 inches (406 mm) on center or staples spaced a maximum of 12 inches (305 mm) on center. The printed side of the wrap is installed facing the outside. A minimum of 6 inches (102 mm) of overlap must be provided for vertical seams and 2 inches (152 mm) for horizontal seams, except where the manufacturer's installation instructions specify a greater overlap. When used over wood-based sheathing in exterior plaster applications, the product must be applied over the sheathing in accordance with 2012, 2009 and 2006 IBC Section 2510.6 or IRC Section R703.6.3 under the 2012, 2009 and 2006 IRC and Section R703.7.3 under the 2018 and 2015 IRC, using two layers of the product or using one layer together with an intervening layer. For cementitious coatings or exterior insulation and finish systems, application must be in accordance with the evaluation report on the exterior coating.

## 5.0 CONDITIONS OF USE

The Hydrosshield Housewrap Plus water-resistive 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 manufacturer's published installation instructions and this report must be strictly adhered to. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.
- 5.2 The membrane must be covered in accordance with the manufacturer's installation instructions with an approved exterior wall covering complying with the applicable code.
- 5.3 This report is based on air leakage rates for the product as an air barrier material only. The design and evaluation of the air barrier assembly, of which the products are a component, is outside the scope of this report.
- 5.4 The product must not be installed where ASTM E2556 Type I or II building paper is required.
- 5.5 The product is manufactured under a quality control program with inspections by ICC-ES.

## 6.0 EVIDENCE SUBMITTED

Data in accordance with [ICC-ES Acceptance Criteria for Water-resistive Barriers \(AC38\)](#), dated August 2016 (Editorially revised April 2018).

## 7.0 IDENTIFICATION

- 7.1 Hydrosshield Housewrap Plus product is identified by a label on the container bearing the report holder's name (Modern Builders Supply, Inc.), the product name (Hydrosshield Housewrap Plus), and the evaluation report number (ESR-4486). The product name (Hydrosshield Housewrap Plus), and the evaluation report number (ESR-4486) are printed, at regular intervals, on the outside face of the products.
- 7.2 The report holder's contact information is the following:

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