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# ICC-ES Report

## ESR-2496

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Reissued 10/2015  
This report is subject to renewal 10/2017.

**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:**

**CS FABRIC INTERNATIONAL CORPORATION**

**10 BAYVIEW AVENUE  
LAWRENCE, NEW YORK 11559**

**EVALUATION SUBJECT:**

**PRIMEWRAP HOUSEWRAP AND GRIP-RITE® HOUSE-WRAP-E**



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# ICC-ES Evaluation Report

**ESR-2496\***

Reissued October 2015

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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 Barrier****REPORT HOLDER:****CS FABRIC INTERNATIONAL CORPORATION  
10 BAYVIEW AVENUE  
LAWRENCE, NEW YORK 11559  
(516) 239-6886, (800) 874-8296  
[www.csfabric.com](http://www.csfabric.com)****EVALUATION SUBJECT:****PRIMEWRAP HOUSEWRAP****1.0 EVALUATION SCOPE****1.1 Compliance with the following codes:**

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2015, 2012, 2009 and 2006 *International Energy Conservation Code*® (IECC)

**Properties evaluated:**

- Physical properties
- Surface-burning characteristics
- Air leakage

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

- 2013 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2012 and 2015 International Green Construction Code® (IgCC)
- 2011 and 2014 ANSI/ASHRAE/USGBC/IES Standard 189.1—Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings
- 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2012 and ICC 700-2008)

**Attributes verified:**

- See Section 3.0

**2.0 USES**

Primewrap Housewrap and is used as water-resistive barriers on the exterior side of exterior walls of buildings of all construction types under the IBC and the IRC. Primewrap Housewrap are alternatives to the water-resistive barriers required in IBC Section 1404.2 and IRC Section R703.2. The products are considered equivalent to a Grade D paper in accordance with IBC Section 2510.6 and 2015 IRC Section R703.7.3 (2012, 2009 and 2006 IRC Section R703.6.3). The barriers have a 60-minute water-resistive rating.

**3.0 DESCRIPTION**

Primewrap Housewrap is cross-woven, perforated, coated polyethylene fabrics. They have a nominal thickness of 5 mils [0.005 inch (0.13 mm)] and a basis weight of 2.6 ounces per

square yard (88 g/m<sup>2</sup>). The membranes are available in rolls of varying sizes.

The Primewrap Housewrap has a flame-spread index of 25 or less and a maximum smoke-developed index of 450 or less when tested in accordance with ASTM E84.

The sheet materials have an air leakage rate not exceeding 0.02L/s/m<sup>2</sup> at 75Pa (0.004 cfm/ft<sup>2</sup> at 1.57 psf) when used as an air barrier under IRC Section N1102.4.1 and 2015 IECC Section C402.4 or R402.4 (2012 IECC Section C402.5 or R402.4, 2009 and 2006 IECC Section 402.4 or 502.4).

The attributes of the water-resistive barriers have been verified as conforming to the requirements of (i) 2013 CALGreen Section 5.407.1 for water-resistive barriers and Section A4.407.5 for air barriers; (ii) 2012 and 2015 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 700-2012 Section 602.1.8 and 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.

**4.0 INSTALLATION****4.2 General:**

The manufacturer's published installation instructions and this report are to be strictly adhered to, and a copy of the instructions must be available at all times on the jobsite during installation

**4.3 Water-resistive Barrier**

Primewrap is installed after wall framing is completed and before windows and doors are installed. The roll is placed approximately 6 inches (152 mm) from the starting corner and fastened to framing members or sheathing using corrosion resistant staples or roofing nails; and is then unrolled around the building and fastened with nails or staples spaced at a maximum of 24 inches (610 mm) on center along studs and 8 inches (203 mm) on center along top and bottom plates. The printed side is installed facing the outside. The membrane is lapped a minimum of 6 inches (152 mm) for vertical seams and 2 inches (51 mm) for horizontal seams, except where the manufacturer's installation instructions specify a greater overlap dimension.

When use is over wood-based sheathing in exterior plaster applications, two layers of the membrane must be applied over sheathing in accordance with Section 2510.6 of the IBC or IRC Section 703.6.3 or installation must be in accordance with the exception to IBC Section 2510.6 or 2015 IRC Section R703.7.3 (2012, 2009 and 2006 IRC Section R703.6.3). For cementitious coatings or exterior insulation and finish systems, application must be in accordance with the evaluation report on the exterior coating.

**4.4 Air Barrier Material**

When used as an air barrier, the membranes must be installed in accordance with the manufacturer's installation instructions and this report.

\*Revised October 2015

## 5.0 CONDITIONS OF USE

The Primewrap Housewrap and water-resistive barriers described in this report comply 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 is in accordance with the applicable code, this report and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's published installation instructions, the most restrictive governs.
- 5.2 The membranes 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 products as an air barrier material only. The design and evaluation of the air barrier assembly of which PrimeWrap is a component is outside the scope of this report.
- 5.4 Under the 2015 and 2012 IBC, installation on exterior walls on buildings of Type I, II, III or IV construction is limited to buildings that are not greater than 40 feet in height above grade plane.

## 6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated October 2009.
- 6.2 Report of tests in accordance with ASTM E84 (UL 723).
- 6.3 Report of tests in accordance with ASTM E 2178.

## 7.0 IDENTIFICATION

The water-resistive barriers described in this report must be identified by a label on each roll of product with the company name (CS Fabric International Corporation) and, address, the product name, and the evaluation report number (ESR-2496).