

ICC-ES Evaluation Report

ESR-2496

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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07270—Air Barrier
Section: 07280—Water-resistive Barriers

REPORT HOLDER:

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EVALUATION SUBJECT:**PRIMEWRAP HOUSEWRAP****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- 2006 *International Energy Conservation Code*® (IECC)

Properties evaluated:

- Physical properties
- Surface-burning characteristics
- Air leakage

2.0 USES

Primewrap Housewrap is used as a water-resistive barrier on the exterior side of exterior walls of buildings of all construction types under the IBC and the IRC. Primewrap Housewrap is an alternative to the water-resistive barriers required in IBC Section 1404.2 and IRC Section R703.2. The product is considered equivalent to a Grade D paper in accordance with IBC Section 2510.6 and IRC Section R703.6.3. The barrier has a 60-minute water-resistive rating.

3.0 DESCRIPTION

Primewrap Housewrap is a cross-woven, perforated, coated polyethylene fabric. It has 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/m²). The membrane is 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.

The sheet materials have an air leakage rate not exceeding 0.02L/s/m² at 75Pa (0.004 cfm/ft² at 1.57 psf) when used as an air barrier under IRC Section N1102.4.1 and IECC Section 402.4 or 502.4.

4.0 INSTALLATION**4.1 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

4.2 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 housewrap 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 product 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 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.

4.3 Air Barrier Material

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

5.0 CONDITIONS OF USE

The Primewrap 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 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, 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 products as an air barrier material only. The design and evaluation of the air barrier assembly of which they are 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 (AC308), dated February 2008.
- 6.2 Report of tests in accordance with ASTM E 84.
- 6.3 Report of tests in accordance with ASTM E 2178.

7.0 IDENTIFICATION

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