

**ICC-ES Evaluation Report****ESR-1108\***

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

**REPORT HOLDER:**

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**ADDITIONAL LISTEES:**

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**EVALUATION SUBJECT:**

**EXAIRE® PLUS HOUSEWRAP, EXAIRE® PLUS  
COMMERCIAL HOUSEWRAP, AND EXAIRE® PLUS LOW  
PERM HOUSEWRAP**

**ADDITIONAL LISTEE PRODUCT NAMES:**

**BERRY PLASTICS TAPES AND COATINGS DIVISION:  
R-WRAP™ PROTECTIVE HOUSEWRAP, BARRICADE  
COMMERCIAL AIR BARRIER AND BARRICADE  
DRAINAGE WRAP**

**HOHMANN & BARNARD, INC.:  
RESIDENTIAL AIR BARRIER AND COMMERCIAL AIR  
BARRIER**

**HGP, LLC:  
HOMEGUARD HOUSEWRAP HP PLUS, HOMEGUARD  
MP COMMERCIAL AIR BARRIER, AND HOMEGUARD  
HOUSEWRAP LP PLUS**

**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)
- Other Codes (see Section 8.0)

**Properties evaluated:**

- Water resistance
- Surface-burning characteristics
- Air leakage

**2.0 USES**

The products recognized in this report (Exaire® Plus Housewrap, Exaire® Plus Commercial Housewrap, Exaire® Plus Low Perm Housewrap, R-Wrap™ Protective Housewrap, Barricade Commercial Air Barrier, Barricade Drainage Wrap, Residential Air Barrier, Commercial Air Barrier, HomeGuard Housewrap HP Plus, HomeGuard Housewrap MP Commercial Air Barrier and HomeGuard Housewrap LP Plus) are used as water-resistive barriers on the exterior side of exterior walls of buildings of any construction type under the IBC and construction permitted under the IRC. They are equivalent to Grade D paper as described in IBC Section 2510.6 and IRC Section R703.6.3. The products may also be used as air barrier materials under IRC Section N1102.4.1 and IECC Sections 402.4 and 502.4.

**3.0 DESCRIPTION****3.1 General:**

The products described in this report have a flame spread index of less than 25 and a smoke-developed index of less than 450, when tested in accordance with ASTM E 84.

The products have 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 inch w.g. (1.57 psf)] when used as an air barrier material under IRC Section N1102.4.1 and IECC Sections 402.4 or 502.4.

The products are manufactured with ultraviolet stabilizing additives and are supplied in rolls and sheets of varying sizes.

**3.2 Exaire® Plus Housewrap:**

Exaire® Plus Housewrap consists of a 1.25 oz/yd<sup>2</sup> (42.4 g/m<sup>2</sup>) polyethylene nonwoven CLAF® fabric laminated to a 0.9 oz/yd<sup>2</sup> (30 g/m<sup>2</sup>) polyethylene microporous film. R- Wrap™

**\*Revised February 2009**

Protective Housewrap, Residential Air Barrier and HomeGuard Housewrap HP Plus are identical to Exaire® Plus Housewrap. These names also apply whenever Exaire® Plus Housewrap is referenced in this report.

### 3.3 Exaire® Plus Commercial Housewrap:

Exaire® Plus Commercial Housewrap consists of a 1.25 oz/yd<sup>2</sup> (42.4 g/m<sup>2</sup>) nonwoven CLAF® fabric laminated to a 1.18 oz/yd<sup>2</sup> (40 g/m<sup>2</sup>) polyethylene film. Barricade Commercial Air Barrier, Commercial Air Barrier and HomeGuard Housewrap MP Commercial Air Barrier are identical to Exaire® Plus Commercial Housewrap. These names also apply whenever Exaire® Plus Commercial Housewrap is referenced in this report.

### 3.4 Exaire® Plus Low Perm Housewrap:

Exaire® Plus Low Perm Housewrap consists of a 1.25 oz/yd<sup>2</sup> (42.4 g/m<sup>2</sup>) polyethylene nonwoven fabric laminated to a 0.9 oz/yd<sup>2</sup> (30 g/m<sup>2</sup>) polyethylene microporous film. Barricade Drainage Wrap and HomeGuard Housewrap LP Plus is identical to Exaire® Plus Low Perm Housewrap. This name also applies whenever Exaire® Plus Low Perm Housewrap is referenced in this report.

## 4.0 INSTALLATION

### 4.1 General:

The report holder's or additional listee'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.

### 4.2 Water-resistive Barrier:

When installed as water-resistive barriers, the products described in this report are installed after wall framing is completed. The roll is placed approximately 2 feet (610 mm) from the starting corner and fastened to the sheathing with corrosion-resistant staples, large-headed nails, or roofing nails spaced at a maximum of 16 inches (406 mm) on center; and is then unrolled around the building and fastened, as set forth in the manufacturer's published installation instructions, at top and bottom sill plates and at framing members. A minimum of 6 inches (152 mm) of overlap is required for vertical seams and 2 inches (50.8 mm) for horizontal seams, except where the report holder's or additional listee's installation instructions specify a greater overlap dimension. When use is over wood-based sheathing in exterior plaster applications, two layers of the barrier must be applied over sheathing in accordance with IBC Section 2510.6 or IRC Section R703.6.3, as applicable. For cementitious coatings or exterior insulation and finish systems, application of the barrier must be in accordance with the evaluation report on the exterior coating.

### 4.3 Air Barrier Material:

When used as an air barrier, the materials must be installed in accordance with the report holder's or additional listee's installation instructions and this report.

## 5.0 CONDITIONS OF USE

The products described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The products must be installed in accordance with the report holder's or additional listee's published installation instructions, the requirements of the applicable code and this report. In the event of a conflict between this report and the published installation instructions, this report governs.

5.2 The products must be covered by an exterior wall finish complying with the requirements of 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 the products 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 (AC38), dated February 2008.

6.2 Report of flame spread characteristics testing in accordance with ASTM E 84.

6.3 Reports of air leakage testing in accordance with ASTM E 2178.

## 7.0 IDENTIFICATION

The products described in this report are identified by a label on the container of each roll of membrane, and by printing on the product, that includes the report holder's or additional listee's name, address, and telephone number; the product name; and the evaluation report number (ESR-1108).

## 8.0 OTHER CODES

### 8.1 Evaluation Scope:

In addition to the codes referenced in Section 1.0, the products covered in this report were also evaluated for compliance with the requirements of the following codes:

- 2003 *International Building Code*® (2003 IBC)
- 2003 *International Residential Code*® (2003 IRC)
- 2003 *International Energy Conservation Code*® (2003 IECC)
- 1999 *BOCA National Building Code*® (BNBC)
- 1999 *Standard Building Code*® (SBC)
- 1997 *Uniform Building Code*™ (UBC)

### 8.2 Uses:

See Section 2.0, with the following modification for the UBC: The products are also equivalent to a Grade D paper as described in UBC Section 2506.4.

### 8.3 Description:

See Section 3.0.

### 8.4 Installation:

See Section 4.0, except for the following modification for the UBC: When use is over wood-based sheathing in exterior plaster applications, two layers of a water-resistive barrier must be applied over sheathing in accordance with UBC Section 2506.4.

### 8.5 Conditions of Use:

See Section 5.0.

### 8.6 Evidence Submitted:

See Section 6.0.

### 8.7 Identification:

See Section 7.0.