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## NATIONAL EVALUATION REPORT

### Report No. NER-494

*Re-Issued September 1, 2002*

#### DIVISION 07 – THERMAL AND MOISTURE PROTECTION

#### Section 07270 – Air Barriers

#### MANUFACTURER:

VALERON STRENGTH FILMS,  
A DIVISION OF ITW, INC.  
9505 BAMBOO ROAD  
HOUSTON, TEXAS 77041  
[www.valeron.com](http://www.valeron.com)

#### EVALUATION SUBJECT:

**VALERON® FILM**

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#### ADDITIONAL LISTEES:

Johns Manville International, Inc.  
717 - 17<sup>th</sup> Street  
Denver, Colorado 80202

Raven Industries, Inc.  
205 E. 6<sup>th</sup> Street  
Sioux Falls, South Dakota 57117

Protecto Wrap Company  
2255 South Delaware  
Denver, Colorado 80223

Weyerhaeuser  
33405 - 8<sup>th</sup> Avenue South  
Federal Way, Washington 98003

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NES  
Product Evaluation Listing

**1.0 SUBJECT**

**2.0 PROPERTY FOR WHICH  
EVALUATION IS SOUGHT**

**3.0 DESCRIPTION**

**4.0 INSTALLATION**

**5.0 IDENTIFICATION**

**6.0 EVIDENCE SUBMITTED**

**7.0 CONDITIONS OF USE**

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**1.0 SUBJECT**

Valeron® Film

**2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT**

- 2.1** Water-Resistive Barrier
- 2.2** Air Infiltration Barrier
- 2.3** Surface-Burning Characteristics

**3.0 DESCRIPTION**

**Valeron® Film** is a micro perforated polyethylene material, 0.003 inch (0.076 mm) (3 mils) thick, intended for use as a water-resistive barrier and as an infiltration barrier within the exterior envelope of buildings. The barrier is available in rolls 4.5 or 9 feet (1.35 or 2.70 m) wide and in white or in various colors (upon request). The material is attached on the exterior side of exterior walls over any nonstructural sheathing or insulation. The coarse side of the material faces toward the exterior for proper performance. In areas utilizing the *Uniform Building Code*, the Valeron® film is an alternative to Grade D water-vapor permeable building paper as noted in UBC Standard No. 14-1.

The Valeron® film has a flame spread index (FSI) of less than 25 and a smoke-developed index (SDI) of less than 450 when tested in accordance with ASTM E84.

**4.0 INSTALLATION**

Valeron® Film shall be installed horizontally on vertical walls. Place roll vertically against the exterior sidewall. *Print side out*, 6 inches (152 mm) from any corner and unroll from left to right. Fasten corner edges with (a) cap nails; (b) 0.75 inch wide (19.1 mm) staples or (c) large head nails, such as galvanized roofing nails. Tightly cover the entire building and openings, including windows and doors. Fasteners shall be placed along the horizontal header, sill plate and vertical studs every 16 or 24 inches (406 mm or 610 mm). Additional fasteners shall be used around each cut opening. When covering foam insulation, fasteners must be firmly anchored into the studs or structural material. When covering or attaching to masonry, polyurethane or latex base adhesives shall be used.

When installing Valeron® Film around rough openings, an upside-down “Y” is cut into the material. The header flap is cut to allow the window header nailing flange to slide up behind the Valeron® Film. When installing around window and door openings where no flange are used, an “X” is cut in the material from corner to corner. The flaps are pulled inside and fastened.

When installing Valeron® Film as an air infiltration barrier, the sill plates shall be taped or caulked and the wrap around be completed with an 6 inches (152 mm) or greater overlap. All horizontal joints created by multiple layers must be positioned with the upper layer overlapping the lower layer by at least 2 inches (51 mm). Seal all edges, overlaps and punctures with housewrap seaming tape or equivalent.

The manufacturer’s published installation instructions and this report shall be strictly adhered to and a copy of these instructions shall be available on the job site during installation.

The instructions within this report govern if there are any conflicts between the manufacturer’s instructions and this report.

**5.0 IDENTIFICATION**

All packages containing Valeron® film as described in this report shall be identified by a label bearing the manufacturer’s name and address, and this evaluation report number for field identification.

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**NES**  
**Product Evaluation Listing**

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**6.0 EVIDENCE SUBMITTED**

**6.1** Reports of tests performed by United States Testing Company, Inc. on Valeron® Film, Test Reports 52480, March 8, 1995; 600527-2R, June 7 1994; 111527, June 6, 1994; 600527-4, June 2, 1994; 600450-1R, May 27, 1994; 60450-1, April 11, 1994; and 10628, July 29, 1985, contains the results of test performed on the physical properties of Valeron® Film. Test performed are as follows:

ASTM E283 - Air Permeability  
ASTM E96 - Water Vapor Transmission  
ASTM D1682 - Tensile Strength  
ASTM D774 - Bursting Strength  
FTMS 292 - Tear Strength  
TAPPI T-470 - Edge Tear Resistance  
TAPPI T-443 - Water Resistance  
AATCC 127 - Hydrostatic Head

**6.2** Report on test performed by United States Testing, Inc., on Valeron® Film, Test Report 6000527-1, June 25, 1994, contains the results of test performed under ASTM E84.

**6.3** Report on test performed by Ortech Corporation on Valeron® Film, Test Report 98-J53-M0030, May 7, 1998, contains the results of test performed in accordance with CCMC 07193.

**7.0 CONDITIONS OF USE**

The National Evaluation Service Committee finds that the Valeron® Film as described in this report complies with or is a suitable alternate to that specified in the 2000 *International Building Code* with 2002 *Accumulative Supplement*, 2000 *International Residential Code* with 2002 *Accumulative Supplement*, *BOCA National Building Code/1999*, the 1999 *Standard Building Code*, the 1997 *Uniform Building Code*, the 1998 *International Energy Conservation Code* and the 2000 *International Energy Conservation Code* with 2002 *Accumulative Supplement*, subject to the following conditions:

**7.1** Valeron® Film shall be installed in accordance with the manufacturer's instructions and this report.

**7.2** The thermal properties of Valeron® Film is outside the scope of this report.

**7.3** Valeron® Film shall be covered with an exterior wall finish complying with the applicable Code within 12 months of installation.

**7.4** Valeron® Film is limited to application on exterior walls and not as an alternative to asphalt-saturated organic felt underlayment in roofing applications.

**7.?** This report is subject to periodic re-examination. For information on the current status of this report, consult the [NES Product Evaluation Listing](#) or contact the [NES](#).