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ICC-ES Report

ESR-2975

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Reissued 05/2017
This report is subject to renewal 05/2018.

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:

HENRY COMPANY

**999 NORTH SEPULVEDA BOULEVARD, SUITE 800
EL SEGUNDO, CALIFORNIA 90245**

EVALUATION SUBJECT:

HENRY BLUESKIN® VP100 AND BLUESKIN® VP160 SELF-ADHERED MEMBRANES



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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 Barriers

REPORT HOLDER:

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EVALUATION SUBJECT:

HENRY BLUESKIN® VP100 AND BLUESKIN® VP160 SELF-ADHERED MEMBRANES

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)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]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
- Surface-burning characteristics

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

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015 and 2012 *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

- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 2.0

2.0 USES

Henry BLUESKIN® VP100 and BLUESKIN® VP160 self-adhered membranes 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. Under the 2015 and 2012 IBC, BLUESKIN® VP100 may be used on buildings of Type I, II, III and IV construction that are not greater than 40 feet (12.2 m) in height above grade in accordance with 2015 and 2012 IBC Section 1403.5, except as permitted in Exception 1 of Section 1403.5 of the 2015 IBC. The membranes have a water resistance greater than that of a 60-minute Grade D paper, which is permitted in the exception to Section 2510.6 of the 2012, 2009 and 2006 IBC and Section R703.7.3 of the 2015 IRC [2012, 2009 and 2006 Section R703.6.3 of the IRC]. The membranes may be used as an air barrier material under IRC Section N1102.4.1 and 2015 IECC Sections C402.5 and R402.4 [2012 IECC Sections C402.4 and R402.4 (2009 and 2006 IECC Sections 402.4 and 502.4)].

The attributes of the self-adhered membranes have been verified as conforming to the provisions of (i) 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 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (v) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (vi) 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 General:

Henry BLUESKIN® VP100 and BLUESKIN® VP160 membranes are comprised of an engineered polymeric-based sheet, bonded with a permeable adhesive layer, and a split-back poly-release film on the adhesive side.

3.2 Henry BLUESKIN® VP100 and BLUESKIN VP160 Self-adhered Membranes:

The membranes have a flame-spread index of 25 or less and a smoke-developed index of 450 or less, when tested in accordance of ASTM E84.

The Henry BLUESKIN® VP100 membrane has a nominal thickness of 0.019 inch (0.457 mm) and the Henry BLUESKIN® VP160 membrane has a nominal thickness of 0.023 inch (0.584 mm). Both Henry BLUESKIN® VP100 and BLUESKIN® VP160 membranes are produced in rolls of varying lengths and widths.

The membranes have an air leakage rate not exceeding 0.02 L/s-m² at 75 Pa [0.004 cfm/ft² at 0.3 w.g. (1.57 psf)].

4.0 INSTALLATION

4.1 General:

Installation of Henry BLUESKIN® VP100 and BLUESKIN® VP160 membranes must comply with this report and the report holder's published installation instructions. The report holder's published installation instructions must be available at the jobsite at all times during the installation.

Prior to installation of the membranes, the substrate surface must be sound, dry, clean, and free of oil, grease, dirt, excess mortar, loose nails and other protrusions, and other contaminants that would be detrimental to adhesion of the membranes. Henry BLUESKIN® VP100 and BLUESKIN® VP160 membrane must be installed only when the ambient air and substrate temperature is at least 20°F (-7°C). When the ambient air or substrate temperature is below 40°F (5°C), the substrate must be prepared according to the report holder's published installation instructions.

4.2 Water-resistive Barrier:

When installed as a water-resistive barrier, the membrane must be installed over the exterior face of the exterior wall sheathings that are attached to wall framing, and must be installed in a consecutive weather board manner. The membrane roll must be placed at the starting wall corner, and is then unrolled around the building. A minimum of 3 inches (76 mm) of overlap is provided for vertical seams and a minimum of 2 inches (51 mm) for horizontal seams, except where the report holder's installation instructions specify a greater overlapping dimension. When use is over wood-based sheathing in exterior plaster applications, the installation must be in accordance with 2012, 2009 and 2006 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, installation of the membrane must be in accordance with a current ICC-ES evaluation report on the exterior coating.

4.3 Air Barrier:

When used as an air barrier under IRC Section N1102.4.1 and 2015 IECC Section C402.5 and R402.4 [2012 IECC Section C402.4 and R402.4 (2009 and 2006 IECC Section 402.4 or 502.4)], the membrane must be installed in accordance with the report holder's published installation instructions and this report.

5.0 CONDITIONS OF USE

Henry BLUESKIN® VP100 and BLUESKIN® VP160 self-adhered membranes 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 membranes must be installed in accordance with the report holder's published installation instructions, the requirements of the applicable code, and this report. In the event of a conflict between this report and the report holder's published installation instructions, this report governs.
- 5.2 The membranes must be covered by an exterior wall covering complying with the requirements of the applicable code.
- 5.3 This evaluation report provides air leakage rates for the described membranes as an air barrier material only. The design and evaluation of the air barrier assembly, of which the self-adhered membranes are a component, are 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 January 2015 (editorially revised April 2015).
- 6.2 Reports of tests for surface burning characteristics in accordance with ASTM E84.
- 6.3 Reports of air leakage tests in accordance with ASTM E2178.

7.0 IDENTIFICATION

Henry BLUESKIN® VP100 and BLUESKIN® VP160 membranes described in this evaluation report must be identified by a label on the container of each roll of the membrane, and by printing at regular intervals on the membrane, that includes the name, address and telephone number of the manufacturer (Henry Company), and the evaluation report number (ESR-2975).