

# BlueskinVP™ 160

## Self-Adhered Water Resistive Air Barrier Membrane

### Physical Properties

<b>-Colour</b>	Blue	<b>-Flame Spread Index</b> ASTM E-84	0, Class A
<b>-Weight Basis</b> TAPPI T--410	160 g/m <sup>2</sup>	<b>-Smoke Developed</b> ASTM E-84	105, Class A
<b>-Water Vapour Transmission</b> ASTM E96/B (Dessicant) WVT WVP	202 g/m <sup>2</sup> · 24 hours 29 Perms 1658 ng/Pa.m <sup>2</sup> .s	<b>-Air Permeance</b> ASTM E 2178 (Maximum 0.02 L/m <sup>2</sup> s @ 75Pa or 0.004 cfm/ft <sup>2</sup> @ 1.57pcf) ASTM E 2357 - assembly	Pass
<b>-Dry Tensile Strength</b> ASTM D 828	41 lbf / 182N MD 29 lbf / 129N CD	<b>-Criteria for Water Resistive Barriers</b> ICC – ES AC 38	Pass
<b>-Average Dry Breaking Force</b> ASTM D 5034	127 lbf / 565N MD 91 lbf / 405N CD	<b>-Low Temp Flexibility</b> ICC – AC38/3.3.4	Pass
<b>-Accelerated Aging</b> ICC-ES AC 48 25 cycles	Pass	<b>-Peel-adhesion to Unprimed Plywood</b> ICC-ES AC48 Control After 7 day water immersion After accelerated aging After UV exposure	Pass  62 lbf/ft – 905N/m 54 lbf/ft – 788N/m 72 lbf/ft – 1051N/m 77 lbf/ft – 1124N/m
<b>- Cycling and Elongation</b> ICC-ES AC48 100 cycles at -29°C (20°F)	Pass	<b>-Water Penetration Resistance around Nails</b> AAMA 711-05 & ASTM D 1970 modified	Pass
<b>-Application Temperature</b>	Minimum 5°C (41°F)		

### Packaging

<b>-Roll Length</b>	30.48m (100 ft)
<b>-Roll Width</b>	1.52m (60") 600mm (24") 300mm (12")

### Description

**BlueskinVP™160** is a water resistive, vapour permeable, air barrier membrane consisting of a tri-laminate of modified polyolefin with two layers of non-woven polyethylene designed for full wall applications. Bonded with a patented, permeable adhesive layer and split-back poly-release film, **BlueskinVP™160** is fully adhered to the wall substrate in a 'weatherboard' method without mechanical attachment.

### Features

- Combines benefits of water resistive barrier with commercial air barrier
- Sheds water while allowing vapour to pass through – allowing walls to drain and substrates to dry
- Creates a continuous plane of air-tightness – improving building thermal performance
- Prevents uncontrolled air leakage – saving energy and HVAC costs
- Meets ASTM E 2357 & E 2178 standards for commercial air barrier products & assemblies
- Meets requirements of ICC-ES AC 38 standard for water resistive barriers
- Easy to install with common hand tools

## Uses

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**BlueskinVP™160** creates a water resistive barrier and air barrier when applied outside of the wall sheathing and behind the exterior cladding.

## Storage

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Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 49°C (120°F). In cold weather, warm to 5°C or above (41°F) prior to application to assure adhesion to substrate.

## Limitations

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**Membrane must be rolled after application to ensure adhesion to substrate.** Not designed for permanent exposure, protect installed membrane as soon as possible. Maximum exposure not to exceed 90 days. See Guide Specifications for further limitations. Do not expose the backside of the substrate to moisture or rain. Protect exposed back-up walls against wet weather conditions during and after application of membrane, including wall openings and construction activity above completed air barrier installation.

## Surface Preparation

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Acceptable substrates are Dens-Glass Gold®, exterior-grade gypsum board, plywood, OSB, precast or cast-in-place concrete, concrete block, steel, aluminum and galvanized metal. All surfaces to receive **BlueskinVP™160** must be clean of oil, dust, frost, bulk water and other contaminants that would be detrimental to adhesion of membrane. Strike masonry joints full-flush. Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Concrete must be cured a minimum of 14 days and must be dry before primer is applied. Curing compounds and release agents used in concrete construction must be resin based without oil or wax.

A primer is not typically required to achieve appropriate adhesion on clean sheathing boards. Precast and concrete block substrates require priming. If appropriate adhesion is not obtained due to surface conditions beyond the control of the installer, the adhesion of **BlueskinVP™160** can be aided by the application of a light, intermittent application of **Bakor Blueskin Spray Prep** primer aerosol or **Blueskin Primer** to the substrate. Allow to dry to a tacky film. Ensure that all primed surfaces are covered in the same day.

## Application

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Refer to **BlueskinVP™160** Guide Specification for detailed application information, see [www.bakor.com](http://www.bakor.com) website. **BlueskinVP™160** must be installed in a consecutive weatherboard method starting at bottom or base of wall and working up; providing minimum of 5cm (2") side laps and 7.6cm (3") end laps. Cut to manageable lengths, position membrane for alignment, remove protective poly-film and firmly apply pressure to assure adhesion. Eliminate all wrinkles or gaps, roll entire membrane surface (including seams) with a counter top or "J-roller" to ensure full contact and adhesion. Seal membrane terminations, heads of mechanical fasteners, masonry tie fasteners, around penetrations, duct work, electrical and other apparatus extending through the **BlueskinVP™160** water resistive air barrier membrane and around the perimeter edge of membrane terminations at window and door frames with **HE925 BES Sealant**.

Fenestrations (windows and doors) must be flashed per window/door manufacturers' recommendation, local building code requirements, ASTM 2112 and AAMA guidelines. Use pre-cut rolls of **BlueskinVP™100** for jamb and head details, and pre-cut rolls of **Blueskin® SA, LT or WB** for sill pan flashings per Henry published window flashing guidelines.

Insulation clips and brick-ties should be mechanically fastened through the membrane into solid backing and sealed with **Henry HE925 BES Sealant**.

### **Limited Warranty**

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#### **Product Warranty:**

We, the manufacturer, warranty only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES:** The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.

#### **Assembly Warranty:**

Assembly warranties are available for job specific applications when applied per Henry published systems guidelines found on [www.bakor.com](http://www.bakor.com). For application for extended warranties up to 12 years contact Henry Warranty Administration Department at [WarrantyAdmin@henry.com](mailto:WarrantyAdmin@henry.com)

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