

# VAPORBLOCK® VB15, VBLP15 & VBGL15

High Performance Underslab Vapor Barrier

**RAVEN**  
ENGINEERED FILMS

## Product Description

VaporBlock® is a high performance, multi-layer underslab vapor barrier designed to retard moisture migration through concrete slabs and concrete walls to protect your structure from:

- **MOLD:** VaporBlock® reduces moisture condensation within a structure, impeding the growth of molds, mildews, and fungi.
- **MOISTURE:** VaporBlock® protects flooring materials by maintaining moisture levels well below the requirements of ASTM E-1745-11.
- **RADON:** VaporBlock® is used as a component of radon mitigation systems to protect indoor air quality and occupant health.

VaporBlock® is one of the most effective underslab vapor barriers on the market today! Benefits include:

- Virtually Zero Moisture Vapor Permeability
- Superior Puncture and Impact Resistance
- Resistance to decay and degradation

VaporBlock® VBLP15 meets an impressive virtually zero-perm rating at less than 0.01 perms after conditioning to exceed requirements in ACI 302.2R-06, section 9.3.

VaporBlock® G™ VBGL15 can help achieve a higher LEED rating by qualifying for Credit 4 (Recycled Content) of Materials and Resources by containing a minimum of 10% post-consumer recycled polyethylene for 1 LEED point on qualifying projects.

VaporBlock® is manufactured to strict conformance specifications under our ISO 9001-2008 Certified Management System to consistently exceed ASTM standards and project expectations. Raven's accredited lab ensures VaporBlock® meets the highest possible quality standards across multiple industries. VaporBlock® is supported with independent testing. Results are available upon request, as required under ASTM E-1745-11. VaporBlock® is readily available through nationwide distribution:

- Available in three 15 mil options for optimal project flexibility
- Larger roll sizes equal lower installation costs

Raven Industries manufactures VaporBlock® and controls all aspects from start to finish assuring the final product meets our high performance standards. Raven is a publicly-traded company, with over 50 years of stability and service excellence to stand behind our products with a future of innovation and growth.

**VaporBlock®**  
UNDERSLAB VAPOR BARRIER



Vapor Barrier - Commercial

Product	Part #
VAPORBLOCK 15.....	VB15
VAPORBLOCK 15 LOW PERM.....	VBLP15
VAPORBLOCK GREEN.....	VBGL15

## APPLICATIONS

- Underslab Vapor Retarder/Barrier
- Foundation Wall Vapor Retarder
- Radon Retarder

Note: All instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions accompany each roll of VaporBlock and can also be located on our website.

ASTM E-1643 also provides general installation information for vapor retarders. All VaporBlock series materials can be installed with print or color facing up or down and will provide the same performance.

ASTM E-1745-11, "Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs".

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PRO-FORMA DATA SHEET **VB15		VAPORBLOCK VB15	VAPORBLOCK VBLP15	VAPORBLOCK VBGL15	ASTM E 1745-11 Class A, B & C <sup>1</sup>
PROPERTIES	TEST METHOD	Imperial	Imperial	Imperial	Imperial
APPEARANCE		Blue	Blue/White	Green	-
THICKNESS, NOMINAL		15 mil	15 mil	15 mil	-
ROLL SIZE		12 ft x 200 ft	12 ft x 200 ft	12 ft x 200 ft	-
WEIGHT		73 lbs/MSF	73 lbs/MSF	76 lbs/MSF	-
CLASSIFICATION	ASTM E1745-11	CLASS A, B & C	CLASS A, B & C	CLASS A, B & C	Class A, B, or C
TENSILE STRENGTH AVERAGE MD & TD (NEW MATERIAL)	ASTM E154 Section 9, (D882)	60 lbs/in	78 lbs/in	50 lbs/in	Class A = 45 lbs/in Class B = 30 lbs/in Class C = 13.6 lbs/in Minimum
(AFTER EXPOSURE)		61 lbs/in	80 lbs/in	50 lbs/in	
PUNCTURE RESISTANCE	ASTM D1709 Method B	>3300 g	>3300 g	>4000 g	Class A = 2200 g Class B = 1700 g Class C = 475 g Minimum
PERMEANCE (NEW MATERIAL)	ASTM E154 Section 7 ASTM E96 Procedure B	0.018 *Perms	0.0057 *Perms	0.0134 *Perms	Class A, B, & C  0.1 *Perms Maximum
(AFTER CONDITIONING)	ASTM E154 Section 8, E96 Section 11, E96 Section 12, E96 Section 13, E96	0.018 0.018 0.018 0.018	0.0076 0.0075 0.0076 0.0053	0.0139 0.0124 0.0115 0.0137	
WVTR	ASTM E96 Procedure B	0.0075 grain/hr-ft <sup>2</sup>	0.0023 grain/hr-ft <sup>2</sup>	0.0057 grain/hr-ft <sup>2</sup>	-
MAXIMUM USE TEMPERATURE		180° F	180° F	180° F	-
MINIMUM USE TEMPERATURE		-70° F	-70° F	-70° F	-

\* grains/(ft<sup>2</sup>-hr-in Hg)

<sup>1</sup> Referencing ASTM E1745-11, Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs

\*\*PRO-FORMA Contents: Data listed for VaporBlock® VB15 is extrapolated from similar products and initial prototypes and is subject to change at any time as additional test data becomes available.



VaporBlock® VB15 and VBLP15 can be identified as blue or blue/white, and VBGL15 as green in color and all three products are printed with the brand logo and the conformance classification information listing ASTM E-1745, Class A.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. Limited Warranty available at [www.RavenEFD.com](http://www.RavenEFD.com)



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3/14 EFD 1484