

# VAPORBLOCK® VB6, VB10 & VB15

High Performance Underslab Vapor Barrier

RAVEN  
INDUSTRIES

## Product Description

VaporBlock® is a high performance underslab vapor barrier designed to retard moisture migration through concrete slabs-on-grade. This product is made from state-of-the-art polyethylene resins that provide superior physical and performance properties that far exceed ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements.

High tensile strength, unequalled puncture resistance, ultralow moisture vapor permeability as well as resistance to decay make VaporBlock® one of the most effective underslab vapor barriers on the market today! Available in 6,10 and 15 mil thicknesses to best meet required performance specifications.

## Product Use

VaporBlock® impedes the transmission of water vapor from traveling upward through a concrete slab-on-grade or through a concrete wall when properly installed. It is extremely important to avoid puncturing a vapor retarder during installation to assure proper performance. VaporBlock's puncture strength is second to none, withstanding even the most demanding installation conditions.

VaporBlock® protects your flooring and other moisture sensitive furnishings in your building's interior from moisture migration. VaporBlock can also greatly reduce condensation, mold and degradation by controlling water vapor migration.

## Size & Packaging

VaporBlock® 6 & 10 are available in 15' wide rolls by 200' long for ease of installation and maximum coverage.

VaporBlock® 15 is available in 12' wide rolls by 200' long. Other custom sizes are available depending upon size and volume requirements. All rolls are folded and rolled on heavy-duty cores for ease in handling and installation. Installation instructions and ASTM E-1745 classifications accompany each roll.

**VaporBlock®**  
UNDERSLAB VAPOR RETARDER



Vapor Barrier - Commercial



VaporBlock® Barrier

## Product

## Part #

VAPORBLOCK.....	VB6
VAPORBLOCK.....	VB10
VAPORBLOCK.....	VB15

## APPLICATIONS

Underslab Vapor Retarder/Barrier

Foundation Wall Vapor Retarder

Radon Retarder

# VAPORBLOCK® VB6, VB10 & VB15



High Performance Underslab Vapor Barrier

PROPERTIES	TEST METHOD	VAPORBLOCK VB6		VAPORBLOCK VB10		VAPORBLOCK VB15	
		Imperial	Metric	Imperial	Metric	Imperial	Metric
APPEARANCE		Blue		Blue		Blue	
THICKNESS, NORMAL		6 mil	0.15 mm	10 mil	0.25 mm	15 mil	0.38 mm
WEIGHT		29 lbs/MSF	141 g/m <sup>2</sup>	49 lbs/MSF	240 g/m <sup>2</sup>	73 lbs/MSF	356 g/m <sup>2</sup>
CLASSIFICATION	ASTM E1745	CLASS C		CLASS A, B & C		CLASS A, B & C	
TENSILE STRENGTH AVERAGE MD & TD (NEW MATERIAL)	ASTM E154 Section 9, (D882)	32 lbs/in	56 N/cm	52 lbs/in	91 N/cm	88 lbs/in	154 N/cm
(AFTER EXPOSURE)		25 lbs/in	44 N/cm	53 lbs/in	93 N/cm	92 lbs/in	161 N/cm
PUNCTURE RESISTANCE	ASTM D1709 Method B	1500 g		2600 g		4000 g	
MAXIMUM USE TEMPERATURE		180° F	82° C	180° F	82° C	180° F	82° C
MINIMUM USE TEMPERATURE		-70° F	-57° C	-70° F	-57° C	-70° F	-57° C
PERMEANCE (NEW MATERIAL)	ASTM E154 Section 7	0.090	0.060	0.0146	0.0096	0.009	0.0059
	ASTM E96 Procedure B	*Perms	**Perms	*Perms	**Perms	*Perms	**Perms
(AFTER CONDITIONING)	ASTM E154 Section 8, E96	0.105	0.069	0.0153	0.0101	0.0104	0.0069
	Section 11, E96	0.124	0.082	0.0151	0.0099	0.0102	0.0067
	Section 12, E96	0.097	0.064	0.0160	0.0105	0.0101	0.0067
	Section 13, E96	0.099	0.065	0.0181	0.0119	0.0091	0.0060
WVTR	ASTM E96 Procedure B	0.080 grain/hr-ft <sup>2</sup>	0.056 gm/hr-m <sup>2</sup>	0.0084 grain/hr-ft <sup>2</sup>	0.0059 gm/hr-m <sup>2</sup>	0.0054 grain/hr-ft <sup>2</sup>	0.0038 gm/hr-m <sup>2</sup>

\* grains/(ft<sup>2</sup>·hr·in·Hg)  
\*\* g/(24hr·m<sup>2</sup>·mm Hg)

## VaporBlock® Placement

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.



VaporBlock® high-performance vapor retarder/barriers are made from state-of-the-art polyolefin resins (virgin-grade) to provide unmatched impact strength and ultra-low water vapor permeance. VaporBlock® can be identified as blue in color printed with the VaporBlock® logo and the conformance information listing ASTM E 1745, classifications.

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 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.



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