

## PRODUCT DESCRIPTION

**VaporBlock®** is a high performance underslab vapor retarder 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, unequaled puncture resistance, low moisture vapor permeability as well as resistance to decay make **VaporBlock** one of the most effective underslab vapor retarders 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** vapor retarders protect your flooring and other moisture sensitive furnishings in your building's interior from moisture migration. **VaporBlock** vapor retarders 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.

PRODUCT	PART NUMBER
VaporBlock .....	VB 6
VaporBlock .....	VB 10
VaporBlock .....	VB 15

## COMMON APPLICATIONS

- Under-Slab Vapor Retarder
- Foundation Wall Vapor Retarder
- Radon Retarder



PROPERTIES	TEST METHOD	VAPORBLOCK 6		VAPORBLOCK 10		VAPORBLOCK 15	
		English	Metric	English	Metric	English	Metric
THICKNESS, NOMINAL		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 E 1745	CLASS C		CLASS A, B & C		CLASS A, B & C	
TENSILE STRENGTH Average MD & TD (New Material)	ASTM E 154 Section 9 (D882)	30 lbs/in	130 N	52 lbs/in	230 N	74 lbs/in	325 N
TENSILE STRENGTH Average MD & TD (After Soaking)	ASTM E 154 Section 9 (D882)	25 lbs/in	110 N	55 lbs/in	240 N	82 lbs/in	360 N
PUNCTURE RESISTANCE	ASTM D 1709 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 E 154 Section 7  ASTM E 96 Procedure B	.090 U.S. Perms	.060 Metric Perms	.036 U.S. Perms	.024 Metric Perms	.025 U.S. Perms	.016 Metric Perms

## VaporBlock Placement

1. Level and tamp or roll granular base.
2. Unroll **VaporBlock** with the longest dimension parallel with the direction of the pour and unfold.
3. Lap **VaporBlock** over the footings and seal to the vertical foundation walls with Raven Butyl Seal tape. Lap joints a minimum of 6 inches and seal overlap with Raven VaporBond Tape.
4. Seal around sewer pipes, support columns or any other penetration with the Raven VaporBoot System or at minimum a combination of VaporBlock and VaporBond Tape creating a monolithic membrane between the surface of the slab and moisture sources below as well as at the slab perimeter.

*(These are very general installation instructions. Instructions on architectural or structural drawings should be reviewed & followed. Detailed installation instructions accompany each roll of VaporBlock. ASTM E 1643 also provides valuable installation information.)*

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. 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.

### PLANT LOCATION

Sioux Falls, South Dakota

[www.vaporblock.com](http://www.vaporblock.com)

### SALES OFFICE

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