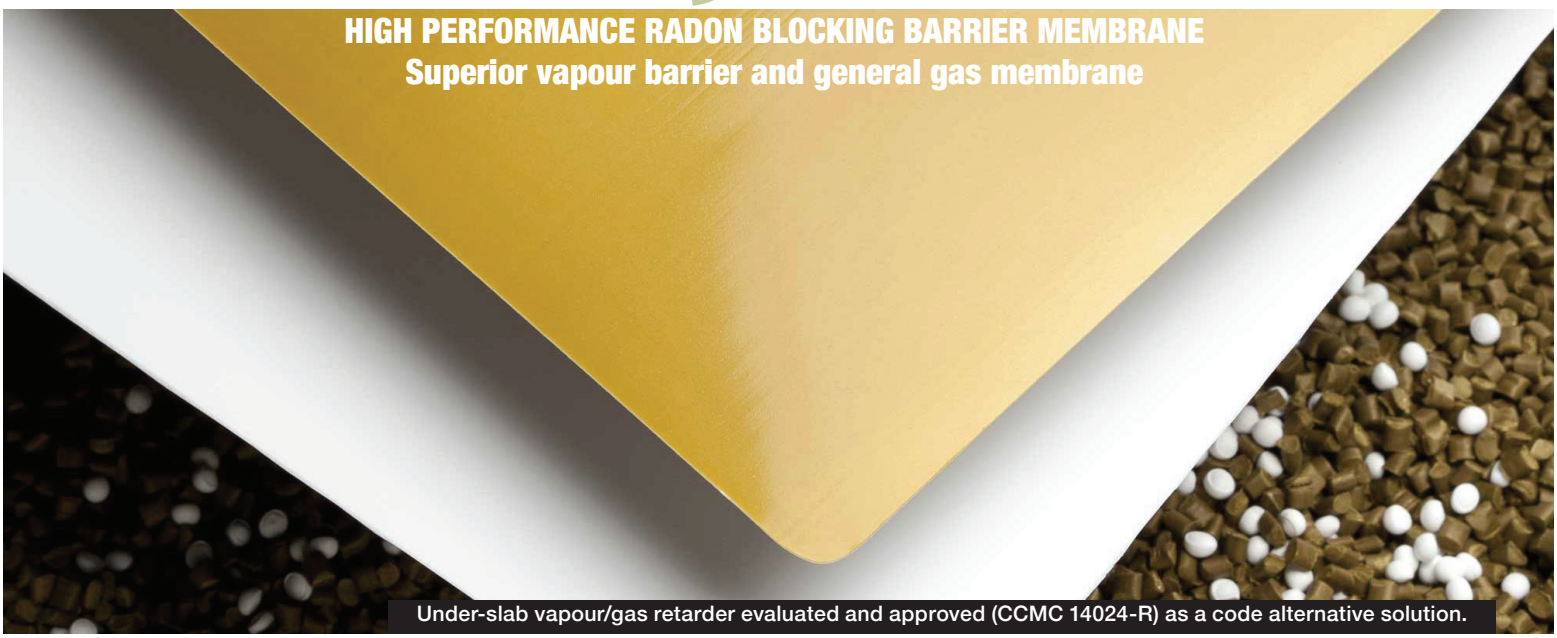
RADONBLOCK™

HIGH PERFORMANCE RADON BLOCKING BARRIER MEMBRANE
Superior vapour barrier and general gas membrane



Under-slab vapour/gas retarder evaluated and approved (CCMC 14024-R) as a code alternative solution.

Product Description

Radon Block™ is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission. Radon Block is a highly resilient underslab/vertical wall barrier designed to restrict naturally occurring gases such as radon and/or methane from migrating through the ground and concrete slab. Radon Block is more than 100 times less permeable than typical high-performance polyethylene vapour retarders against methane, radon and other harmful VOCs.

Radon Block is one of the most effective underslab gas barriers in the building industry today, far exceeding ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. Available in a 20 (Class A) mil thicknesses designed to meet the most stringent requirements. Radon Block is produced within the strict guidelines of an ISO 9001:2008 Certified Management System, and has been evaluated and approved (CCMC 14024-R) as a code alternative solution.

Product Use

Radon Block resists gas and moisture migration into the building envelop when properly installed to provide protection from toxic/harmful chemicals. It can be installed as part of a passive or active control system extending across the entire building including floors, walls and crawl spaces. When installed as a passive system it is recommended to also include a ventilated system with sump(s) that could be converted to an active control system with properly designed ventilation fans.

Radon Block works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapour migration, greatly reducing condensation, mold and degradation.

Size & Packaging

Radon Block is available in 10' x 150' rolls to maximize coverage. Rolls weigh 160 lbs and are folded on heavy-duty cores for ease in handling and installation. Other custom sizes with factory welded seams are available based on minimum volume requirements. Installation instructions and ASTM E-1745 classifications accompany each roll.

Radon Block™ Product | Part # RBP20
applications
Radon Barrier
Methane Barrier
VOC Barrier
Under-Slab Vapour Retarder
Foundation Wall Vapour Retarder

RADONBLOCK™

HIGH PERFORMANCE RADON BLOCKING BARRIER MEMBRANE
Superior vapour barrier and general gas membrane

ISO 9001:2008
CERTIFIED MANAGEMENT SYSTEM

		RADON BLOCK™ CCMC 14024-R	
PROPERTIES	**TEST METHOD**	**IMPERIAL**	**METRIC**
APPEARANCE		White/Gold	
THICKNESS, NOMINAL		20 mil	0.51 mm
WEIGHT		102 lbs/MSF	498 g/m²
CLASSIFICATION	ASTM E 1745	CLASS A, B & C	
TENSILE STRENGTH LBF/IN (N/CM) AVERAGE MD & TD (NEW MATERIAL)	ASTM E 154 Section 9 (D-882)	58 lbf	102 N
IMPACT RESISTANCE	ASTM D 1709	2600 g	
MAXIMUM USE TEMPERATURE		180 °F	82 °C
MINIMUM USE TEMPERATURE		-70 °F	-57 °C
PERMEANCE (NEW MATERIAL)	ASTM E 154, Section 7 ASTM E 96, Procedure B	0.0098 Perms grain/(ft²·hr·in·Hg)	0.0064 Perms g/(24h·m²·mm·Hg)
(AFTER CONDITIONING) PERMS (SAME MEASUREMENTS AS ABOVE PERFORMANCE)	ASTM E154 Section 8, E96 Section 11, E96 Section 12, E96 Section 13, E96	0.0079 0.0079 0.0097 0.0113	0.0052 0.0052 0.0064 0.0074
WVTR	ASTM E 96 Procedure B	0.0040 grains/hr-ft²	0.0028 gm/hr-m²
RADON DIFFUSION COEFFICIENT	K124/02/95	< 1.1 x10^{-13}m²/s	
METHANE PERMEANCE	ASTM D 1434	< 1.7 x 10^{-10}m²d·atm 0.32 GTR (Gas Transmission Rate) ml/m²·D·ATM	

RADON BLOCK Placement: All instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions accompany each roll of RADON BLOCK. ASTM E-1643 also provides general installation information for vapor retarders.

HOLMES APPROVED PRODUCTS

RADONBLOCK™

RADON BLOCK™ is a seven-layer co-extruded barrier made using high quality virgin-grade polyethylene and EVOH resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission.

Radon™ Environmental