

Radon Guard[™] Insulation A

EPS PRODUCT SOLUTIONS

Better building ideas from PFB

The key component for a radon gas mitigation system



CCMC Evaluation Report 13698-R confirms that Radon Guard Insulation is a code compliant replacement for a 100 mm thick layer of clean granular fill material as required by code.

The interconnected channels on the underside of the panel depressurize the sub-slab space to direct radon gases to the vent pipe which would then be connected to a radon gas mitigation system.

Radon Guard™ Insulation

A patent-pending sub-slab depressurization panel that allows soil gas movement between the ground and the air barrier system to a vent pipe that can be connected to a mitigation system.



What is Radon?

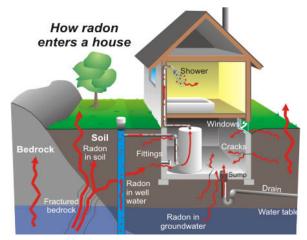
Radon is a gaseous radioactive element. It is an extremely toxic, colorless gas; it can be condensed to a transparent liquid and to an opaque, glowing solid; it is derived from the radioactive decay of radium.

How does Radon get into your home?

Radon is a radioactive gas. It comes from the natural decay of uranium that is found in nearly all soils. It typically moves up through the ground to the air above and into your home through cracks and other holes in the foundation. Your home traps radon inside, where it can build up. Any home may have a radon problem.

Plasti-Fab has the EPS Product Solution.





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What is the Risk?

Radon is the second leading cause of lung cancer and the leading environmental cause of cancer.



Radon Guard[™] Insulation

The key component for a radon gas mitigation system



How does it work?

Install Radon Guard Insulation panels with the interconnected channels facing down. This creates a space for radon gas to move to the vent pipe. The radon gas can then be removed when the vent pipe is attached to a mitigation system.

For a full explanation of the installation procedures for Radon Guard insulation visit our web site today.

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Overall Panel Dimensions 1 - mm (in)	RSI	R-value	Buy Pack
914 x 1219 x 89 (36 x 48 x 3.5)	1.4	8.1	6
914 x 1219 x 101 (36 x 48 x 4.0)	1.8	10.1	6
914 x 1219 x 114 (36 x 48 x 4.5)	2.1	12.1	5
914 x 1219 x 127 (36 x 48 x 5.0)	2.5	14.1	5
914 x 1219 x 140 (36 x 48 x 5.5)	2.8	16.2	4

¹ Panel Dimension includes insulation thickness and interconnected channel height.

Radon Guard insulation material properties as indicated below per CAN/ULC-S701, Type 2 will be adequate for typical residential basement slab loads. Where higher slab loads are anticipated, contact a Plasti-Fab technical sales representative for information on additional product type options.

CAN/ULC-S701 Material Properties ¹	Test Method	Units	Values
Thermal Resistance	ASTM	m²•°C/W	0.70
Minimum RSI per 25 mm (R per inch)	C518	(ft²•h•°F/BTU)	(4.04)
Compressive Resistance Minimum @ 10% Deformation	ASTM	kPa	110
	D1621	(psi)	(16)
Flexural Strength Minimum	ASTM	kPa	240
	C203	(psi)	(35)
Water Vapour Permeance	ASTM	ng/(Pa·s·m²)	200
Maximum	E96	(Perms)	(3.5)
Water Absorption Maximum	ASTM D2842	% By volume	4.0
Dimensional Stability Maximum, 7 Days @ 70 ± 2 ℃ (158 ± 4 ℉)	ASTM D2126	% Linear Change	1.5
Limiting Oxygen Index Minimum	ASTM D2863	%	24

¹ CAN/ULC-S701, Standard for *Thermal Insulation, Polystyrene, Boards and Pipe Covering* is the National Standard of Canada for moulded expanded polystyrene (EPS) insulation. Material properties are certified under a listing and certification program monitored by Intertek Testing Services.

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