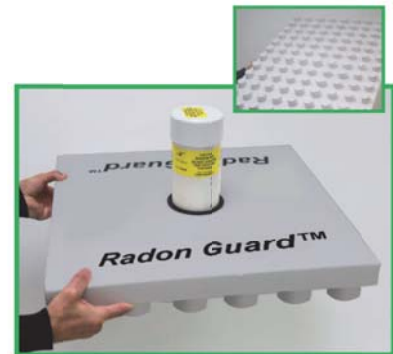
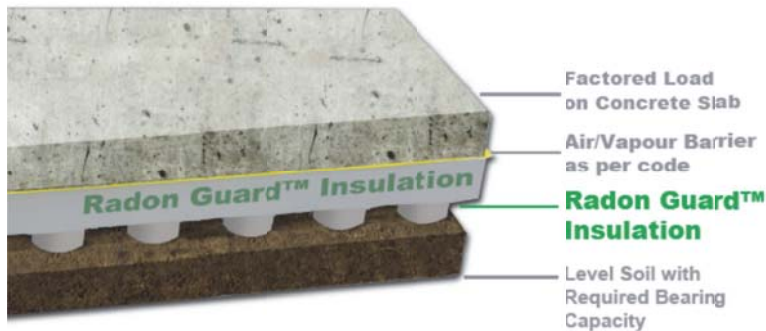


# Product Information Bulletin

## Radon Guard™ Insulation Specified Load Data



**Radon Guard™** insulation<sup>1</sup> is a patent-pending sub-slab depressurization panel with a pattern of circular legs on the underside that directs soil gas movement between the ground and the air barrier system to a vent pipe<sup>2</sup>. This bulletin provides guidance on recommended **PlastiSpan®** insulation types based upon total specified loads required for end use applications.

**Radon Guard** insulation can be manufactured using a variety of **PlastiSpan** insulation types to meet specified loads for building applications. The table below provides total specified load permitted on **Radon Guard** insulation manufactured using the **PlastiSpan** insulation type noted and the minimum soil bearing capacity required to support loads transferred to legs on the underside of panels.

**Table 1 - PlastiSpan Insulation Types**

PlastiSpan Insulation Type <sup>3</sup>	Total Specified Load		Minimum Soil Bearing Capacity		Typical Building Application
	psf	kPa	psf	kPa	
PlastiSpan HD	235	11	940	45	Residential to Heavy Commercial/Industrial
PlastiSpan 25	313	15	1,253	60	
PlastiSpan 40	522	25	2,089	100	

<sup>1</sup> See Plasti-Fab Product Information Bulletin No. 294 for additional information on **Radon Guard** insulation and No. 358 recommended installation instructions.

<sup>2</sup> See Plasti-Fab Product Information Bulletin No. 301 for Evaluation Report CCMC 13698-R confirming Radon Guard™ Insulation compliance with National Building Code (NBC) of Canada 2010 as alternative solution (replacement) for prescriptive clean granular material identified in Article 9.13.4.3. for NBC 2010.

<sup>3</sup> See Plasti-Fab Product Information Bulletin No. 339 for complete material property data on the **PlastiSpan** insulation types listed in Table 1.

The table below provides RSI (R-value) for **Radon Guard** insulation panels made from the **PlastiSpan** insulation types as per Table 1.

**Table 2 - PlastiSpan Insulation - RSI (R-value)**

Radon Guard Insulation Overall Panel Dimensions	RSI - m <sup>2</sup> .°C/W (R-value - ft <sup>2</sup> .h.°F/BTU)		
	millimeters (inches)	PlastiSpan HD	PlastiSpan 25
914 x 1219 x 89 (36 x 48 x 3.5)	1.4 (8.1)	1.5 (8.5)	1.5 (8.6)
914 x 1219 x 102 (36 x 48 x 4.0)	1.8 (10.1)	1.9 (10.7)	1.9 (10.8)
914 x 1219 x 114 (36 x 48 x 4.5)	2.1 (12.1)	2.3 (12.8)	2.3 (12.9)
914 x 1219 x 127 (36 x 48 x 5.0)	2.5 (14.1)	2.6 (14.9)	2.7 (15.0)
914 x 1219 x 140 (36 x 48 x 5.5)	2.8 (16.2)	3.0 (17.1)	3.0 (17.2)

**Note:** **Radon Guard** insulation thickness dimension includes 38 mm (1 ½") high interconnected channels on the underside of panel.