

# 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. 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>2</sup>	Total Specified Load		Minimum Soil Bearing Capacity		Typical Building Application
	psf	kPa	psf	kPa	
PlastiSpan HD	235	11	940	45	Residential
PlastiSpan 20	261	13	1,044	50	Light to Heavy Commercial/Industrial
PlastiSpan 25	313	15	1,253	60	
PlastiSpan 30	392	19	1,566	75	
PlastiSpan 40	522	25	2,089	100	

<sup>1</sup> See Plasti-Fab Product Information Bulletin 294 for additional product information on **Radon Guard** insulation.

<sup>2</sup> See Plasti-Fab Product Information Bulletin 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)				
	PlastiSpan HD	PlastiSpan 20	PlastiSpan 25	PlastiSpan 30	PlastiSpan 40
914 x 1219 x 89 (36 x 48 x 3.5)	1.4 (8.1)	1.4 (8.1)	1.5 (8.5)	1.5 (8.5)	1.5 (8.6)
914 x 1219 x 102 (36 x 48 x 4.0)	1.8 (10.1)	1.8 (10.1)	1.9 (10.7)	1.9 (10.7)	1.9 (10.8)
914 x 1219 x 114 (36 x 48 x 4.5)	2.1 (12.1)	2.1 (12.1)	2.3 (12.8)	2.3 (12.8)	2.3 (12.9)
914 x 1219 x 127 (36 x 48 x 5.0)	2.5 (14.1)	2.5 (14.1)	2.6 (14.9)	2.6 (14.9)	2.7 (15.0)
914 x 1219 x 140 (36 x 48 x 5.5)	2.8 (16.2)	2.8 (16.2)	3.0 (17.1)	3.0 (17.1)	3.0 (17.2)

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