

# INSULATION UNDER RADIANT FLOOR HEATING

Application	Coverage	Minimum Insulation	
		Imperial ft <sup>2</sup> h °F / Btu	Metric m <sup>2</sup> °C / W
<b>Slab on Grade</b>	(1) Perimeter to below frost line	0.125 (t <sub>i</sub> – t <sub>o</sub> )	0.04 (t <sub>i</sub> – t <sub>o</sub> )
	(2) 4 ft (1.2m) horizontal or vertical & wing at perimeter	R-5	0.88
	(3) Under entire slab	R-5	0.88
<b>Suspended Floor</b>	Under entire floor *		
Floor in contact with a heated area	Hard Surface	R-5	0.88
	Carpeted Surface	R-11	1.94
Floor in contact with the exterior, a crawl space, or a non-heated area	Hard Surface	R-13	2.29
	Carpeted Surface	R-19	3.35

\* For hydronic systems, electric cables and flexible heating films a 2-inch (5-cm) air gap is required. For self-regulating elements, do not leave an air gap.

Refer to STANDARD GUIDELINE for the Design and Installation of Residential Radiant Panel Heating Systems printed by the Radiant Panel Association – [www.rpa-info.com](http://www.rpa-info.com).