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### LSI PADDING & RADIANT HEAT FLOORING

All LSI Flooring cushion products are excellent for use with radiant heat flooring.

**R-Value & Cell Structure:** The lower the R-value of a product (carpet, cushion, etc...), the better that product is for use with radiant heat flooring. The smaller the cell structure of a cushion, the lower the R-value of that cushion.

Heat must pass through the cushion, and it requires less energy to pass between cells than it does to go through the cell. A product with large, air-filled cells (such as lightweight urethane products), or cushions with irregular cell structures (such as re-bond cushions or synthetic felt cushions) tend to provide fewer avenues of passage for heat and require more energy to achieve a comfortable degree of warmth and have a higher R-value as well.

LSI Padding Products are made with tiny cells. They provide thousands of avenues for heat to pass through and consequently have a low R-value.

**Thermal Properties:** Polyurethane is like a space-age material in that it has the amazing ability to accept any temperature to which it is exposed and keep itself at that temperature for long periods of time. This is why thermos bottles use polyurethane material between the inner and outer core. When hot liquid is poured into the thermos the polyurethane will itself become hot and help liquid to stay warm, as with cold, the polyurethane will become cold, holding that temperature, and keeping the liquid cool.

What this means is that when exposed to radiant floor heat, LSI Padding will not only permit the heat to easily flow through but will itself become warm and tend to hold the warmth. The result will be a pleasant warm floor!

LSI Padding:	Thickness (inches)	Density (lbs. per cubic ft.)	R-Value:
Ultra Plus	.300 – 5/16"	10 lbs.	1.10
Step Above	.4375 – 7/16"	10 lbs.	1.50
LSI 101	.175	16 lbs.	0.53
LSI 300	.250	12 lbs.	0.87
LSI Area Rug Pad	.125	16 lbs.	0.79