

R-VALUES OF SELECTED FLOOR COVERINGS, UNDERLAYMENTS AND SUB FLOORS

Material	Typical R-Value	R-Value per Inch	Typical Thickness
Plywood	0.825	1.10	0.750
OSB	1.050	1.40	0.750
Softwood	0.825	1.10	0.750
Sheet Vinyl	0.200	1.60	0.125
Vinyl Composition Tile (VCT)	0.200	1.60	0.125
Linoleum	0.400	1.60	0.250
Linoleum	0.200	1.60	0.125
Dense Rubber Flooring	0.250	1.30	0.325
Recycled Rubber Flooring	1.100	2.20	0.500
Cork Underlay-WECU SoundLess 6mm	2.600	10.4	0.250
Brick	3.375	2.25	1.500
Marble	0.400	0.80	0.500
Ceramic Tile	0.250	1.00	0.250
Thinset Mortar	0.050	0.40	0.125
MDF/Plastic Laminate	0.500	1.00	0.500
Laminate Floor Pad	0.300	1.92	0.160
Engineered Wood Flooring	0.375	1.00	0.375
Engineered Wood Flooring	0.500	1.00	0.625
Engineered Wood Flooring	0.750	1.00	0.750
Floating Floor Laminate/Wood Padding	0.200	1.60	0.125
Engineered Bamboo	0.60	0.98	0.625
Solid Oak Flooring	0.638	0.85	0.750
Solid Maple Flooring	0.750	1.00	0.750
Carpet Pad/ Slab Rubber 33 lb.	0.320	1.28	0.250
Carpet Pad/ Slab Rubber 33 lb.	0.480	1.28	0.375
Carpet Pad/ Slab Rubber 33 lb.	0.640	1.28	0.500
Carpet Pad/ Waffle Rubber 25 lb.	0.620	2.48	0.250
Carpet Pad/ Waffle Rubber 25 lb.	1.240	2.48	0.500
Carpet Pad – Jute/Fiber	1.940	3.88	0.500
Carpet Pad – Jute/Fiber	1.250	3.88	0.325
Prime Urethane Carpet Pad	1.400	4.30	0.325
Prime Urethane Carpet Pad	2.150	4.30	0.500
Bonded Urethane Carpet Pad	1.350	4.20	0.325
Bonded Urethane Carpet Pad	2.100	4.20	0.500
Carpet - Synthetic Fiber	0.700	2.80	0.250
Carpet - Synthetic Fiber	1.400	2.80	0.500
Carpet - Synthetic Fiber	2.100	2.80	0.750
Carpet - Wool	15.75	4.20	0.375
Carpet - Wool	2.100	4.20	0.500

Some data obtained from [Radiant Panel Association](#), and used with permission

Warm Your Floor

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