

Conductance and Resistance Values for Flooring Materials

Material	Description	Conductivity k , Btu/(h) (ft ²) (°F/in.)	Thickness (in.)	Conductance C , Btu/(h) (ft ²) (°F)	Resistance R , 1/[Btu/(h) (ft ²) (°F)
	Asphalt, vinyl, rubber, or linoleum tile			20.0	0.05
	Cork tile	0.45	$\frac{3}{8}$	3.60	0.28
	Terrazzo	12.5	1	12.50	0.08
	Carpet and fibrous pad			0.48	2.08
	Carpet and rubber pad			0.81	1.23
	Plywood subfloor	0.80	$\frac{5}{8}$	1.28	0.78
	Wood subfloor	0.80	$\frac{3}{4}$	1.06	0.94
	Wood, hardwood finish	1.10	$\frac{3}{4}$	1.47	0.68

Source: Courtesy of Johns-Mansville, Denver, CO.