

## Conductance and Resistance Values for Woods

Material	Description	Conductivity $k$ , Btu/(h) (ft <sup>2</sup> ) (°F/in.)	Thickness (in.)	Conductance $C$ , Btu/(h) (ft <sup>2</sup> ) (°F)	Resistance $R$ , 1/[Btu/(h) (ft <sup>2</sup> ) (°F)]
Maple, oak and similar hardwoods	45 lb/ft <sup>3</sup>	1.10	$\frac{3}{4}$	1.47	0.68
Fir, pine and similar softwoods	32 lb/ft <sup>3</sup>	C.80	$\frac{3}{4}$	1.06	0.94
			$1\frac{1}{2}$	0.53	1.89
			$2\frac{1}{2}$	0.32	3.12
			$3\frac{1}{2}$	0.23	4.35

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