



## Typical building materials R-Value Table\*

	Resistivity (r) per inch of thickness °F ft <sup>2</sup> h/BTU-in	Resistivity (R) for the specific material °F ft <sup>2</sup> h/BTU
<b>Insulation Materials</b>		
Fiberglass Batt	3.14-4.30	
Fiberglass Blown (attic)	2.20-4.30	
Fiberglass Blown (wall)	3.70-4.30	
Rock Wool Batt	3.14-4.00	
Rock Wool Blown (attic)	3.10-4.00	
Rock Wool Blown (wall)	3.10-4.00	
Cellulose Blown (attic)	3.13	
Cellulose Blown (wall)	3.70	
Vermiculite	2.13	
Autoclaved Aerated Concrete	1.05	
Urea Terpolymer Foam	4.48	
Rigid Fiberglass (> 4lb/ft <sup>3</sup> )	4.00	
Expanded Polystyrene (beadboard)	4.00	
Extruded Polystyrene	5.00	
Polyurethane (foamed-in-place)	6.25	
Polyisocyanurate (foil-faced)	7.20	
<b>Construction Materials</b>		
Concrete Block 4"		0.80
Concrete Block 8"		1.11
Concrete Block 12"		1.28
Brick 4" common		0.80
Brick 4" face		0.44
Poured Concrete	0.08	
Soft Wood Lumber	1.25	
2" nominal (1 1/2")		1.88
2x4 (3 1/2")		4.38
2x6 (5 1/2")		6.88
Cedar Logs and Lumber	1.33	
<b>Sheathing Materials</b>		
Plywood	1.25	
1/4"		0.31
3/8"		0.47
1/2"		0.63
5/8"		0.77
3/4"		0.94
Fiberboard	2.64	
1/2"		1.32
25/32"		2.06
Fiberglass (3/4")		3.00
(1")		4.00
(1 1/2")		6.00

<b>Sheathing Materials (cont.)</b>	
Extruded Polystyrene (3/4")	3.75
(1")	5.00
(1 1/2")	7.50
Foil-faced Polyisocyanurate	
(3/4")	5.40
(1")	7.20
(1 1/2")	10.80
<b>Siding Materials</b>	
Hardboard (1/2")	0.34
Plywood (5/8")	0.77
(3/4")	0.93
Wood Bevel Lapped	0.80
Aluminum, Steel, Vinyl	
(hollow backed)	0.61
(w/ 1/2" Insulating board)	1.80
Brick 4"	0.44
<b>Interior Finish Materials</b>	
Gypsum Board (drywall 1/2")	0.45
(5/8")	0.56
Paneling (3/8")	0.47
<b>Flooring Materials</b>	
Plywood	1.25
(3/4")	0.93
Particle Board (underlayment)	1.31
(5/8")	0.82
Hardwood Flooring	0.91
(3/4")	0.68
Tile, Linoleum	0.05
Carpet (fibrous pad)	2.08
(rubber pad)	1.23
<b>Roofing Materials</b>	
Asphalt Shingles	0.44
Wood Shingles	0.97

<b>Windows</b>	
Single Glass	0.91
w/storm	2.00
Double insulating glass	
(3/16") air space	1.61
(1/4" air space)	1.69
(1/2" air space)	2.04
(3/4" air space)	2.38
(1/2" w/ Low-E 0.20)	3.13
(w/ suspended film)	2.77
(w/ 2 suspended films)	3.85
(w/ suspended film and low-E)	4.05
Triple insulating glass	
(1/4" air spaces)	2.56
(1/2" air spaces)	3.23
Addition for tight fitting drapes or shades, or closed blinds	0.29
<b>Doors</b>	
Wood Hollow Core Flush	
(1 3/4")	2.17
Solid Core Flush (1 3/4")	3.03
Solid Core Flush (2 1/4")	3.70
Panel Door w/ 7/16" Panels	
(1 3/4")	1.85
Storm Door (wood 50% glass)	
(metal)	1.00
Metal Insulating	
(2" w/ urethane)	15.00
<b>Air Films</b>	
Interior Ceiling	0.61
Interior Wall	0.68
Exterior	0.17
<b>Air Spaces</b>	
1/2" to 4" approximately	1.00
* Please note: The values listed are industry estimates. Make sure you refer to the manufacturer's material	