

		R-Values Per Inch	R-Values Per Given Materials
Insulation Materials			
Fiberglass Batt	R-49 = 16"	3.14	
Fiberglass Blown (attic)	R-49 = 22"	2.2	
Fiberglass Blown (wall)	R-20 = 5.5"	3.7	
Rock Wool Batt	R-20 = 5.5"	3.14	
Rock Wool Blown (attic)	R-49 = 16"	3.1	
Rock Wool Blown (wall)	R-20 = 5.5"	3.1	
Cellulose Blown (attic)	R-49 = 16"	3.13	
Cellulose Blown (wall)	R-20 = 4"	3.7	
Vermiculite	Per Inch	2.13	
Urea Terpolymer Foam		5.1	
Rigid Fiberglass (> 4lb/ft ³)	R-20 = 5"	4	
Expanded Polystyrene (beadboard)	R-20 = 5"	4	
Extruded Polystyrene (BLUE or Pink) Board	R-20 = 4"	5	
Polyurethane (foamed-in-place)	R-20 = 4"	6.25	
Polyisocyanurate (foil-faced)	R-20 = 3"	7.2	
Construction Materials			

Concrete Block 8"			2.86
Concrete Block 10"			3
Concrete Block 12"			3.12
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
Sheathing Materials			
Extruded Polystyrene (3/4") Blue or Pink Board	R-15 = 3"		3.75
(1")			5.4
(1 1/2")			8.1
(2")			10.8
2.5			13.5
3			16.2
Foil-faced Polyisocyanurate - @THERMAX Brand Exterior Insulation			
(3/4)		4.1	
(1")		6.5	

(1 1/2")		10.1	
Foil-faced Polyisocyanurate - @THERMAX Brand Interior Insulation			
(1/2)		3.3	
(3/4)		5	
(1")		6.5	
(1 1/2")		9.8	
(2") + 10" Block = R-16		13	
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
Metal Insulating Door			
(2" w/ urethane)			15.00
Air Films			
Interior Ceiling			0.61
Interior Wall			0.68
Exterior			0.17
Air Spaces			
1/2" to 4" approximately			1.00