



Insulation Type (Source: BPI)	R-Value per inch
Cellulose – loose and dense pack	3.5
Fiberglass – loose, batt and dense pack	3.2
Loose fill – compressed	Uncertain
Rock wool	3
Vermiculite	2.7
Poly-isocyanurate – rigid board	7
Polystyrene – extruded rigid board	5
Polystyrene – expanded rigid board	4
Urethane – spray foam	6
Urethane – spray foam – low density	3.7
Urea formaldehyde	4

R-value is the reciprocal of U-value
 $R=1/U$ $U=1/R$

What is the U-value of two inches of rigid “blueboard?”

U = 0.1

Notes:

Default window values (Source: BPI)

Type	Glazing	U-Value	SHGC	U-value w/low E	SHGC w/low E
Wood	Single	.90	.65	n/a	n/a
	Single w/storm	.49	.71	n/a	n/a
	Double	.49	.58	.39	.45
Vinyl	Double	.46	.57	.36	.45
	Triple	.36	.52	.36	.45
Metal	Single	1.31	.80	n/a	n/a
	Double	.87	.73	n/a	n/a
Metal w/thermal break	Double	.65	.66	.53	.52
	Triple	.53	.60	.43	.52

Which of the above windows has the highest R-value? Vinyl triple pane R-2.8

World's Best Window Co.
 Millennium 2000*
 Vinyl-Clad Wood Frame
 Double Glazing - Argon Fill - Low E
 Product Type: Vertical Slider

ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
0.30	0.30
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmittance	Air Leakage (U.S./I-P)
0.51	0.2

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product use. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org

