

Energy Ratings - CSA A440.2

January 2003

Picture	Dual Clear	Dual LowE	EO1	Tri Clear	Tri LowE	EO2	EO3
Energy Rating	-12	-2	3	4	7	10	13
CDN U-Value	2.71	2.06	1.85	1.80	1.44	1.33	1.08
CDN R-Value	0.37	0.49	0.54	0.56	0.69	0.75	0.93
US U-Value	0.47	0.36	0.32	0.31	0.25	0.23	0.19
US R-Value	2.11	2.78	3.09	3.18	3.97	4.30	5.30
SHGC	0.66	0.60	0.60	0.60	0.54	0.54	0.51

Awning / Casement	Dual Clear	Dual LowE	EO1	Tri Clear	Tri LowE	EO2	EO3
Energy Rating	-18	-11	-7	-6	-3	-2	1
CDN U-Value	2.40	1.92	1.77	1.69	1.44	1.36	1.17
CDN R-Value	0.42	0.52	0.56	0.59	0.69	0.74	0.85
US U-Value	0.42	0.34	0.31	0.30	0.25	0.24	0.20
US R-Value	2.38	2.98	3.23	3.39	3.97	4.21	4.89
SHGC	0.48	0.44	0.44	0.44	0.39	0.39	0.37

Sliders	Dual Clear	Dual LowE	EO1	Tri Clear	Tri LowE	EO2	EO3
Energy Rating	-17	-9	-5	N/A	N/A	N/A	N/A
CDN U-Value	2.71	2.09	1.91	N/A	N/A	N/A	N/A
CDN R-Value	0.37	0.48	0.52	N/A	N/A	N/A	N/A
US U-Value	0.47	0.37	0.33	N/A	N/A	N/A	N/A
US R-Value	2.11	2.74	3.00	N/A	N/A	N/A	N/A
SHGC	0.66	0.52	0.52	N/A	N/A	N/A	N/A

Patio Doors	Dual Clear	Dual LowE	EO1	Tri Clear	Tri LowE	EO2	EO3
Energy Rating	-18	-9	-5	N/A	N/A	N/A	N/A
CDN U-Value	2.61	2.08	1.91	N/A	N/A	N/A	N/A
CDN R-Value	0.38	0.48	0.52	N/A	N/A	N/A	N/A
US U-Value	0.46	0.36	0.33	N/A	N/A	N/A	N/A
US R-Value	2.19	2.75	3.00	N/A	N/A	N/A	N/A
SHGC	0.54	0.51	0.51	N/A	N/A	N/A	N/A

Centre of Glass	Dual Clear	Dual LowE	EO1	Tri Clear	Tri LowE	EO2	EO3
CDN U-Value (W/m ² /C)	2.74	1.98	1.75	1.78	1.38	1.04	0.96
CDN RSI-Value	0.36	0.51	0.57	0.56	0.72	0.96	1.04
US U-Value	0.48	0.35	0.31	0.31	0.24	0.18	0.17
US R-Value	2.09	2.89	3.27	3.22	4.15	5.50	5.96
SHGC	0.78	0.72	0.72	0.70	0.66	0.56	0.56
Shading Coefficient	0.90	0.84	0.84	0.82	0.76	0.76	0.66
Visible Transmittance	0.82	0.76	0.76	0.75	0.69	0.64	0.64
Ultraviolet Trans.	0.58	0.44	0.44	0.48	0.37	0.37	0.28
Solar Transmittance	0.74	0.60	0.60	0.64	0.52	0.45	0.45

CAN/CSA A440-M90	Picture	Fixed	Awn/Cas	Sliders	Patio Door
Air Infiltration (m3/h)m-1 @75Pa	Fixed	Fixed	A3	A3	A3
Water Tightness	B7	B7	B7	B3	B4
Wind Load Resistance	C5	C5	C5	C5	C3
Ease of Operation	N/A	N/A	Passed	Passed	E3
Force Entry Resistance	N/A	N/A	F20	F20	F20
Condensation Resistance	N/A	N/A	N/A	N/A	D1

Dual LowE: Dual pane, air fill, 1 LowE.
 Tri LowE: Tri pane, air fill, 1 LowE.
 EO1: Dual pane, argon fill, 1 LowE.
 EO2: Tri pane, 1 argon fill, 1 LowE.
 EO3: Tri pane, 2 argon fill, 2 LowE.
 With Super Spacer® Bar

Energy Rating (ER): A new window energy performance rating system, established by the Canadian Standards Association (CSA). The ER system factors in multiple ratings to achieve an overall window energy rating. The larger the number, the more efficient.

U-value: A measurement of heat loss. The smaller the U-value the better. A large number denotes a greater amount of heat loss.

R-value: The resistance to heat loss. The larger the number the better.

Solar Heat Gain Coefficient (SHGC): The % of solar radiation that ends up as heat energy in your home.

Shading Coefficient: of any glass is defined as the ratio of the Solar Heat Gain of that glass to the Solar Heat Gain of 1/8-inch (3.0mm) clear float glass.

Visible Transmittance: The % of light energy that is allowed to pass through the given glazing it contacts. Higher numbers mean that more light can enter, and views out will appear brighter.

Total window ratings were calculated in accordance to the CSA A440.2-93 standard, computer simulation method.

Centre of Glass U & R values, SHGC, visible & solar values were calculated using the Frame™ Plus V5.1 computer modeling program to the CSA-2003 standard.

The shading coefficient & UV values were calculated using LBL Window 4.1.

LowE glass used in ratings is AFG Comfort E2™.

E. & O.E.

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