

Note: All values calculated using Window 5.2. (See <http://windows.lbl.gov/software/window/window.html> and http://windows.lbl.gov/materials/optical_data/default.html for more information on glass optical data and the Windows 5.2 program.) Emittance of ordinary low-e is 0.20.

Solar Heat Gain Coefficient – (SHGC). The amount of solar radiation that enters a building as heat. The lower the number, the better the glazing is at preventing solar gain.

Fading Transmission – The portion of energy transmitted in a spectral region from 300 to 700 nanometers. This region includes all of the ultraviolet energy and most of the visible spectrum, and will give the best representation of relative fading rates. The lower the number, the better the glass is for reducing fading potential of carpets and interior furnishings.

U-Factor – This represents the heat flow rate through a window expressed in BTU/hr/ft²/°F, using winter weather conditions of 0°F outside and 70°F inside. The smaller the number, the better the window system is at reducing heat loss.

Cardinal actively supports and participates in The National Fenestration Rating Council (NFRC). Windows with LoE that are rated and certified by the NFRC can comply with Energy Star™ requirements for all climates in the country.

[See <http://www.energystar.gov/products/windows/> for more information on the Energy Star windows program.]

GLASS PERFORMANCE

PRODUCT	VISIBLE LIGHT TRANSMITTANCE %	SOLAR HEAT GAIN COEFFICIENT	WINTER U-FACTOR (AIR/ROOF)	FADING TRANSMISSION	UV
Double-pane, clear	81%	.76	.48	.74	.56
Double-pane, tint	61%	.63	.48	.52	.32
Ordinary low-e	75%	.72	.35/.31	.63	.44
Ordinary low-e, tint	57%	.57	.35/.31	.45	.21
LoE ³ -366	66%	.27	.29/.24	.43	.05
LoE³-366 Neat	66%	.27	.29/.24	.43	.05
LoE ² -272	72%	.41	.30/.25	.55	.16
LoE ² -272 Neat	72%	.41	.30/.25	.55	.16
LoE ² -270	70%	.37	.30/.25	.53	.14
LoE ² -270 Neat	70%	.37	.30/.25	.53	.14
LoE ² -240	40%	.25	.30/.26	.35	.16
LoE ² -240 Neat	40%	.25	.30/.26	.35	.16



CARDINAL CG ◆

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GLASS PERFORMANCE

PRODUCT	VISIBLE LIGHT TRANSMITTANCE %	SOLAR HEAT GAIN COEFFICIENT	WHITER U-FACTOR (AIR/ARGON)	FADING TRANSMISSION	U-F
Double-pane, clear	81%	.76	.48	.74	.56
Double-pane, tint	61%	.63	.48	.52	.32
Ordinary low-e	75%	.72	.35/.31	.63	.44
Ordinary low-e, tint	57%	.57	.35/.31	.45	.21
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