

# Neat

 **Cardinal Coated Glass**  
Superior glass products  
for residential windows and doors

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](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/ft<sup>2</sup>/°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/ARGON)	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
<b>LoE<sup>3</sup>-366</b>	<b>66%</b>	<b>.27</b>	<b>.29/.24</b>	<b>.43</b>	<b>.05</b>
<b>LoE<sup>3</sup>-366 Neat</b>	<b>66%</b>	<b>.27</b>	<b>.29/.24</b>	<b>.43</b>	<b>.05</b>
<b>LoE<sup>2</sup>-272</b>	<b>72%</b>	<b>.41</b>	<b>.30/.25</b>	<b>.55</b>	<b>.16</b>
<b>LoE<sup>2</sup>-272 Neat</b>	<b>72%</b>	<b>.41</b>	<b>.30/.25</b>	<b>.55</b>	<b>.16</b>
<b>LoE<sup>2</sup>-270</b>	<b>70%</b>	<b>.37</b>	<b>.30/.25</b>	<b>.53</b>	<b>.14</b>
<b>LoE<sup>2</sup>-270 Neat</b>	<b>70%</b>	<b>.37</b>	<b>.30/.25</b>	<b>.53</b>	<b>.14</b>
<b>LoE<sup>2</sup>-240</b>	<b>40%</b>	<b>.25</b>	<b>.30/.26</b>	<b>.35</b>	<b>.16</b>
<b>LoE<sup>2</sup>-240 Neat</b>	<b>40%</b>	<b>.25</b>	<b>.30/.26</b>	<b>.35</b>	<b>.16</b>

 **Cardinal CG**  
A Cardinal Glass Industries Company

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The dawn  
of a new era in  
easier-to-clean glass.