

The glass that holds down heating bills by holding in warmth.

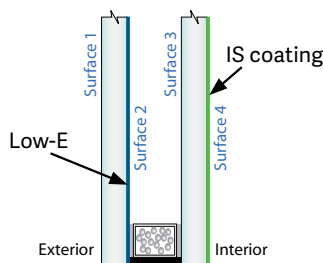
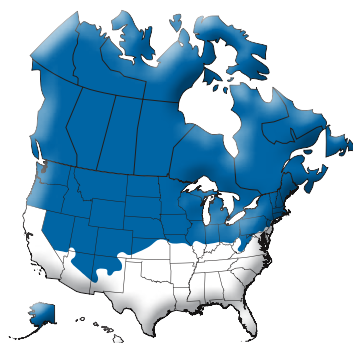
ClimaGuard IS-20 Interior Surface Low-E glass from Guardian is engineered to lower the U-factor of standard Low-E windows, reducing heat loss during cold winter months in the north, lowering cooling loads in the south and improving energy savings.

Interior surface glass with superior insulating capabilities

When applied to the #4 (inside) surface of double- or triple-glazed windows, and used in conjunction with other ClimaGuard Low-E coatings, ClimaGuard IS-20 can reduce the center-of-glass U-factor by as much as 0.06. **The result: less heat loss and lower heating costs.**

Helps meet new energy codes and ENERGY STAR® requirements

- ClimaGuard IS-20 provides the perfect performance boost for many windows to meet ENERGY STAR requirements in North America without using argon gas.



Double Glazed	Visible Light			UV Trans	SHGC	U-Factor	
	Trans	Reflect Out	Reflect In			1/2" Gap Argon	Air
80/70 + IS-20	79%	14%	14%	39%	0.64	0.22	0.25
72/57 + IS-20	69%	14%	13%	25%	0.45	0.21	0.24
70/36 + IS-20	68%	12%	13%	23%	0.37	0.20	0.24
62/27 + IS-20	60%	12%	13%	8%	0.27	0.20	0.24
Monolithic							
ClimaGuard IS-20	88%	9%	9%	69%	0.79	n/a	0.68

Double-glazed: 3.0mm Clr: Air and 90% Argon/10% Air Filled Units. Primary Low-E coating on the #2 surface. ClimaGuard IS coatings are on the #4 surface. Performance data calculated for center-of-glass only (no spacer or framing) using LBNL Window 7, IGDB v.57.0.

Performance and fabrication benefits

Guardian IS-20 is mechanically and chemically durable, with excellent optical properties making it ideal for exposed-surface applications.

- High light transmission, neutral color with low haze & ultra-smooth surface.
- As easy to clean as ordinary uncoated glass.
- As durable and scratch-resistant as the glass itself.
- Easy to fabricate: single product for annealed or tempered applications.
- Ideal for monolithic storm doors and windows.