



## GUARDIAN® CLIMAGUARD®

Residential Glass Innovation

### Low-E that allows the sun's warmth into northern homes.

Nothing feels better in cold winter weather than the sun's warming rays through big, bright windows. Incorporating a passive solar heat concept, ClimaGuard 80/70 will provide a powerful level of insulation against harsh winters, while allowing warm sunshine into the home as a free and sustainable heat source.

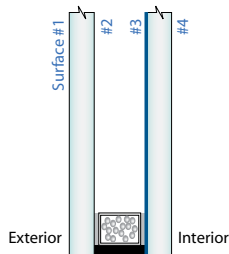
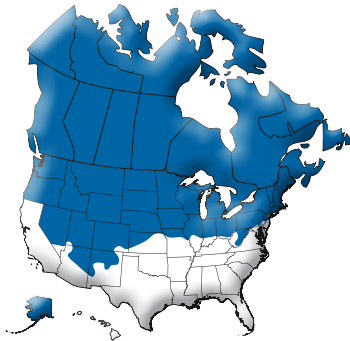
#### *When it's sunny and cold outside, this glass keeps it sunny and warm inside*

ClimaGuard 80/70 Low-E glass from Guardian is specifically designed to retain indoor heat and maximize solar heat gain in northern climate zones. With a U-factor of 0.27 in an argon-filled double-glazed unit, ClimaGuard 80/70 minimizes heat loss through windows and helps maintain warmer room-side glass temperatures.

Coupled with a low U-factor, 80/70 offers the highest light transmission of all ClimaGuard glass and a solar heat gain coefficient of 0.70. The light and heat combine to brighten and warm a home naturally, resulting in greater comfort and lower energy bills.

#### *Single product solution - lower operating costs*

ClimaGuard 80/70 is available in both an annealed form and an AT (annealed and temperable) form, which allows the glass to be used annealed or tempered for applications that require more strength. For window manufacturers, 80/70 AT represents a "single product solution" for easy inventory management and lower operation costs.



	Visible Light			UV Trans	SHGC	U-Factor			
	Trans	Reflect Out	Reflect In			1/2" Gap Argon	Air	5/16" Gap Argon	Air
<b>Double Glazed</b>									
ClimaGuard 80/70	81%	13%	13%	41%	0.70	0.27	0.31	n/a	n/a
<b>Triple Glazed</b>									
80/70 + 80/70	73%	17%	17%	26%	0.58	0.14	0.17	0.18	0.23
80/70 + 70/36	63%	17%	14%	16%	0.45	0.13	0.16	0.17	0.22

Double glazed: 3.0mm clear glass, Air and 90% Argon/10% Air filled. 80/70 on #3 surface.

Triple glazed: 3.0mm clear glass, Air and 90% Argon/10% Air filled. Low-E coatings are on the #2 and #5 surfaces respectively. Performance data calculated for center-of-glass only (no spacer or framing) using LBNL Window 7, IGDB v.57.0.

### ClimaGuard 80/70 at a glance

- Helps meet ENERGY STAR® requirements in all northern climate zones, including Canada.\*
- Brightens homes with 81% of the sun's visible light.
- Warms homes naturally by letting in 70% of the sun's heat.
- Enables a triple-glazing solution with a high light transmission of 72%.
- Available in an annealed form, or as an AT (Annealed and Temperable) form.

\* In a broad selection of representative windows. Criteria is based upon total window performance, of which glass performance is a contributor.



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