

GUARDIAN® CLIMAGUARD®

Residential Glass Innovation



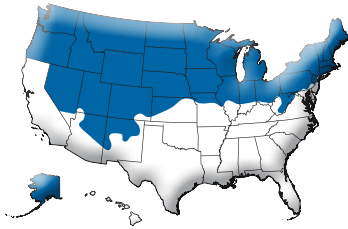
Low-E glass that cools in the summer and warms in the winter.

Maintaining a comfortable indoor environment is a challenge when temperatures fluctuate, sometimes dramatically, throughout the day, between seasons, and across climate zones. ClimaGuard 70/36 from Guardian is glass for all seasons. It insulates in the winter, blocks heat in the summer, and makes homes more comfortable and energy efficient all year long.

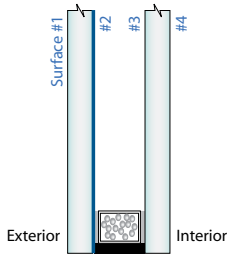
All season comfort

ClimaGuard 70/36 can lower heating energy costs and improve insulating value by as much as 50% over standard clear glass. Less interior heat is lost through windows and room-side glass temperatures stay warm, helping to maintain a uniform comfort level throughout the house.

And, solar heat gain and damaging radiation can be significantly reduced without sacrificing clear views and daylight. ClimaGuard 70/36 blocks up to 50% more unwanted solar energy than standard clear glass, and up to 40% more than even dark tinted glass. This results in lower air conditioning expenses and a more comfortable



	Visible Light					U-Factor			
	Trans	Reflect Out	Reflect In	UV Trans	SHGC	1/2" Gap		5/16" Gap	
Double Glazed						Argon	Air	Argon	Air
70/36	70%	11%	13%	25%	0.38	0.25	0.29	n/a	n/a
70/36 + IS-20	68%	12%	13%	23%	0.37	0.20	0.24	n/a	n/a
Triple Glazed									
70/36 + 70/36	55%	14%	14%	10%	0.33	0.12	0.16	0.16	0.22
70/36 + 80/70	63%	14%	17%	16%	0.35	0.13	0.17	0.18	0.22



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. Triple glazed: 3.0mm Clr: Air and 90% Argon/10% Air Filled Units. Low-E coatings in the triple-glazed configurations 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 70/36 at a glance

- Helps meet ENERGY STAR® requirements.
- Brightens homes with 70% of the sun's visible light.
- Saves money on utility bills all year long.
- Uniform, neutral appearance that enhances the beauty of any home.
- Easy to fabricate and available from all Guardian U.S. coating facilities.



ClimaGuard Product Information
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