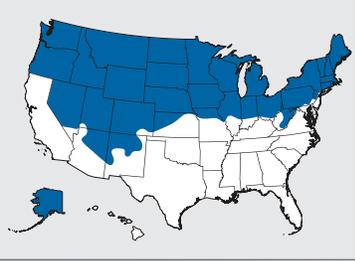




ClimaGuard 71/38

Climate control for
hot summers and
cold winters



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 71/38 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.

Warm and cozy in the winter

Choosing ClimaGuard 71/38 can significantly lower heating energy costs and improve insulating value by as much as 50% over standard clear glass. This means that less interior heat is lost through windows and room-side glass temperatures stay warm, helping to maintain a uniform comfort level throughout the house.

Cool and comfy in the summer

With ClimaGuard 71/38, solar heat gain and damaging radiation can be significantly reduced without sacrificing clear views and daylight. ClimaGuard 71/38 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 living environment.

Blocks harmful UV light

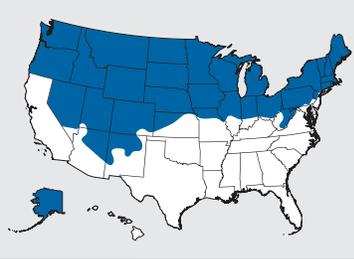
ClimaGuard 71/38 has another benefit besides comfort. Compared to standard clear glass, it blocks nearly twice as much harmful UV light to extend the life of woodwork, carpets and furnishings while still allowing natural sunlight to brighten the home.

ClimaGuard 71/38 at a glance

- Helps meet ENERGY STAR® requirements.
- Brightens homes with 71% of the sun's visible light.
- Helps homeowners save more on utility bills all year long.
- Attractive, neutral appearance to enhance the beauty of any home.
- A heat-treatable version is also available.
- Easy to fabricate and available from all Guardian U.S. coating facilities.
- Available in full truckloads, partial truckloads or case quantities.

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ClimaGuard 71/38 is designed to keep homes comfortable in most climates.

ClimaGuard 71/38 has high visible light transmission and a low U-factor for winter weather and a low solar heat gain coefficient for summer. As shown below, it can be used in multiple configurations to meet the needs of various climates and applications.

	Visible Light					SHGC	U-Factor	
	Trans	Reflect Out	Reflect In	UV Trans	UV Tdw-ISO		Argon	Air
Double Glazed								
71/38	71%	10%	12%	24%	56%	0.387	0.244	0.291
71/38 + IS-30	71%	9%	10%	24%	57%	0.388	0.212	0.249
71/38 + IS-20	69%	10%	12%	23%	54%	0.377	0.202	0.237
71/38 + IS-15	67%	10%	11%	20%	51%	0.367	0.197	0.231
Triple Glazed								
71/38 + 71/38	56%	12%	12%	10%	41%	0.335	0.165	0.215
71/38 + 80/70	64%	13%	16%	16%	49%	0.359	0.174	0.224
80/70 + 71/38	64%	16%	13%	16%	49%	0.453	0.173	0.222

Double glazed: 3.0mm Clr, 1/2" Gap, 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, 5/16" Gap, 3.0mm Clr, 5/16" Gap, 3.0mm: 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 using LBNL Window 6, IGDB v.21.0.

ClimaGuard 71/38 vs. the competition

Low-E Products	Visible Light					SHGC	U-Factor	
	Trans	Reflect Out	Reflect In	UV Trans	UV Tdw-ISO		Argon	Air
ClimaGuard 71/38	71%	10%	12%	24%	56%	0.387	0.244	0.291
AGC Comfort Select 40™	72%	12%	13%	19%	56%	0.392	0.242	0.294
AGC Comfort Ti-AC 40™	71%	9%	11%	45%	63%	0.400	0.250	0.296
Cardinal LoE ² -272™	72%	11%	12%	16%	55%	0.414	0.250	0.297
PPG Solarban® 60	72%	11%	13%	21%	56%	0.386	0.247	0.294

Double glazed: 3.0mm Clr, 1/2" Air Space, 3.0mm Clr: Air and 90% Argon/10% Air Filled Units

ClimaGuard Product Information

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Guardian Industries Corp.
ClimaGuard glass products
can be used to construct
ENERGY STAR qualified
windows.

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v.5.14

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