

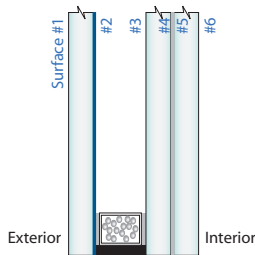
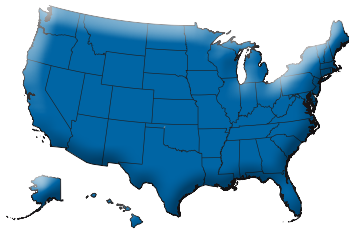


GUARDIAN® CLIMAGUARD®

Residential Glass Innovation

Guardian Laminated Glass

Safety, sound reduction,
protection from storms
and fading



Safety, comfort and fade protection, all in an invisible layer.

Windows and doors with Guardian Laminated Glass are specially designed to protect homeowners and their belongings. Now, everything from small accent windows to entire window walls can invite in the sunlight and provide added safety, increased noise reduction and elimination of UV rays. All because of a feature you'll never see.

An invisible protective shield.

Two or more panes of glass are bonded together by a durable plastic interlayer, which enables the glass to strongly resist penetration by impacting objects - you can't see it, but the benefits are clear. If it should break, the glass will tend to remain in its frame, minimizing the risk of injury from sharp edges and flying or falling glass particles.

Benefits that satisfy consumer's needs.

Safety, noise reduction and fade protection were ranked as essential factors for replacement windows by surveyed homeowners. That's where laminated glass stands strong. Meeting these needs is why over 50% of surveyed homeowners say they would purchase windows with laminated glass.

Double Glazed Inboard Lami	Visible Light			UV Trans	SHGC	U-Factor	
	Trans	Reflect Out	Reflect In			1/2" Gap Argon	Air
70/36(#2) + Laminated Glass	69%	11%	12%	0%	0.380	0.245	0.291
62/27(#2) + Laminated Glass	61%	11%	12%	0%	0.277	0.242	0.289
55/27(#2) + Laminated Glass	55%	17%	19%	0%	0.275	0.243	0.289

Double glazed laminated inboard: 3.0mm Clr, 1/2" Gap, 3.0mm Clr, .030 Clr PVB, 3.0mm Clr
All units: Air and 90% Argon/10% Air Filled. Primary low-E coating on the #2 surface. Performance data
calculated for center-of-glass only (no spacer or framing) using LBNL Window 6 methodology.

Guardian Laminated Glass at a glance

- Meets CPSC Category II and ANSI Z97.1 safety standards.
- Reduces perceived noise by 50%.
- Blocks over 99% of harmful UV rays.
- Withstands high winds, flying debris and weather-related impact.
- Increases intruder resistance.
- Reduces solar heat gain when used with ClimaGuard low-E products.
- Available in full truckloads, partial truckloads, case quantities and make-to-order.



ClimaGuard Product Information

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