

Guardian ClimaGuard™

The future of residential glass, at your service.

You can expect more from ClimaGuard™ residential glass: Achieve outstanding solar control and thermal insulating performance. Choose from a powerful collection of low-E coated glass innovations that surpass future codes – and alternatives across the industry. Save time and money with solutions optimized for you and your customers.



Industry-leading residential glass **performance**

Solutions that create advantage in **every climate** zone

Steady supply with responsive expert technical **support**

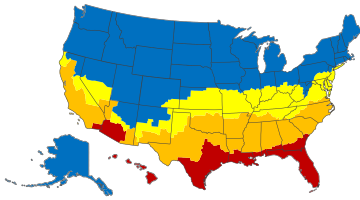


Our service teams are ready to help you meet or exceed your next performance goal, including ENERGY STAR® Version 7 criteria – often with little to no modification to your window designs and often without the need for triple-pane insulated glass units.

Glass for everywhere – including the future

Choose from a focused portfolio of residential glass products finely tuned to the comfort, energy efficiency, light and views homeowners want from their windows, no matter where they live. We know you're always looking ahead to the future, and so is ClimaGuard™. That's why we're all-in and leading residential glass innovation.

Satisfying ENERGY STAR® Version 7



ENERGY STAR® has prescribed a set of NFRC-certified U-Factor and SHGC rating levels for windows that meet its performance criteria across U.S. Climate Zones. It also defines a set of “equivalent energy performance” criteria specifically for windows that may be similarly certified for the Northern Climate Zone.

Center-of-glass performance calculated according to NFRC-100 based on an energy efficient frame with argon fill and warm edge spacer (IS 20 interior surface coating), and dual pane glass thickness of 3mm and triple pane of 2.3mm.

Zones	ESv7 Requirements		Guardian ClimaGuard Solutions	
	U-Factor	SHGC	Double Pane	Triple Pane
Northern Prescriptive	≤ 0.22	≥ 0.17		CG 80/71 CG 70 CG 62/27
Northern Equivalent Energy Performance	≤ 0.23	≥ 0.35		CG 80/71
	≤ 0.24	≥ 0.35		CG 80/71
	≤ 0.25	≥ 0.40	CG 80/71 + CG IS* #4	CG 80/71 + CG IS #6
	≤ 0.26	≥ 0.40	CG 80/71 + CG IS #4	CG 80/71 + CG IS #6
North-Central	≤ 0.25	≤ 0.40	CG 70 + CG IS #4 CG 55 + CG IS #4 CG 62/27 + CG IS #4 CG 53/23 + CG IS #4	
South-Central	≤ 0.28	≤ 0.23	CG 55 CG 62/27 CG 53/23	
Southern	≤ 0.32	≤ 0.23	CG 55 CG 62/27 CG 53/23	

*Among ClimaGuard interior surface coatings, IS 20 is the primary choice for meeting ESv7 requirements.

Sophisticated solutions, simple choice

ClimaGuard 80/71 lets you lighten up in northern zones.

ClimaGuard 70 provides best-in-class thermal insulating performance for consistent comfort through hot and cold weather extremes.

ClimaGuard 62/27 delivers the balanced solar control and visible light transmission needed to perform in almost any climate zone.

ClimaGuard 55 is the double-silver coating that delivers triple-silver performance, while maximizing daylight.

ClimaGuard 53/23 is the triple-silver coating that rivals quad-silver coatings for its powerful solar control.

ClimaGuard IS interior surface coatings elevate window performance without the pain of adding panes.