

ClimaGuard®

ClimaGuard 80/71

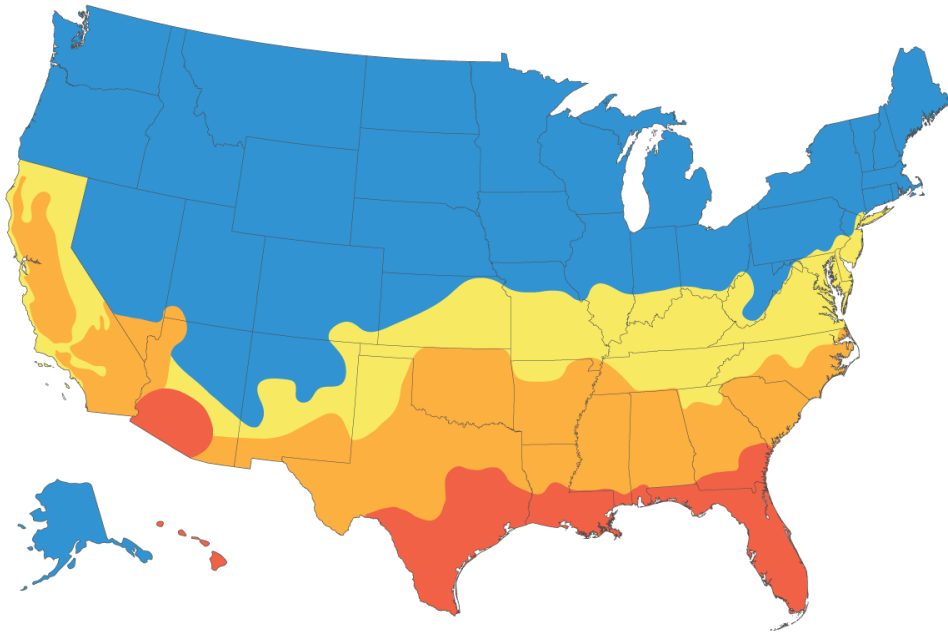
Cold outside, warm inside

In chilly climates like the northern U.S. and Canada where winter temperatures regularly plummet below the freezing point, low-E glass in your windows is the first line of defense. ClimaGuard 80/71 coated residential glass is designed to maximize solar heat gain and retain indoor heat. Homeowners can get the visible light they desire and the insulating power they need.



Product Information

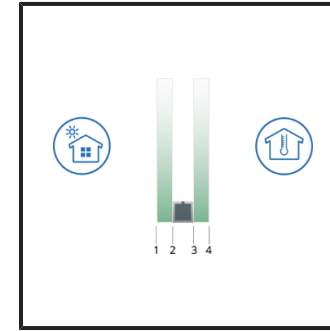
Substrate Base Glass/Thickness	Clear Float/2.3 mm (3/32") - 5 mm (13/64")
Applications	Windows / Skylights / Doors
Manufacturing options	Heat Strengthened / Heat Soaked / Annealed / Tempered / Laminated
Recommended Coating Positions	pim:coating-positions/surface-2-or-3-(double-igu)
Maximum Size	<100"x144" (2540x3658mm)
Edge Deletion	Yes
Glass type	Low E
Glass functions	Thermal insulation / Passive heat
Fabrication options	Must be used in an Insulating Glass Unit
Appearance	Neutral



All Rights reserved
ENERGY STAR® prescribes a set of NFRC-certified U-Factor and solar heat gain (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.

Zones	ESv7 Requirements	
	U-Factor	SHGC
Northern Prescriptive	≤ 0.22	≥ 0.17
Northern Equivalent Energy Performance	≤ 0.23	≥ 0.35
	≤ 0.24	≥ 0.35
	≤ 0.25	≥ 0.40
	≤ 0.26	≥ 0.40

All Rights reserved
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 3 mm and triple pane of 2.3 mm.



Double Glazed



Triple Glazed

Visible Light			Ultraviolet	Solar Energy							Thermal Properties		Light to Solar Gain (LSG)
Transmittance	Reflectance		Trans UV(tuv %)	Transmittance	Reflectance		Absorptance	Solar Heat Gain Coefficient (SHGC)	Shading Coefficient (sc)	U-Value			
Visible (tv %)	pv % out	pv % in		General Color Rendering Index (Ra)	Solar (te %)	pe % out	pe % in			Solar (ae %)	Winter Night (Btu/hr-ft ² -F)	Summer Day (Btu/hr-ft ² -F)	
Double Glazed: 3-12.7-3 ClimaGuard® on Clear Float #2, ClimaGuard 80/71 on Clear Float #3, 90% Argon Fill													
80	14	14	98.1	44	62	21	20	17	0.71	0.81	0.265	0.246	1.13
Triple Glazed: 3-12.7-3-12.7-3 ClimaGuard® on Clear Float #2, Clear Float, Clear Float, 90% Argon Fill													
72	17	19	96.8	28	49	24	24	26	0.59	0.67	0.186	0.183	1.22

The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to NFRC2010 / US Standard.

www.guardianglass.com

All trademarks noted are owned by, licensed to or used with permission by Guardian Glass.
©2021 Guardian Glass, LLC

1-855-58-GLASS (45277)
2300 Harmon Road, Auburn Hills, Michigan 48326

Published Date: 04-Mar-2024

The products in this publication are sold subject to Guardian's standard terms and conditions of sale and any applicable written warranties (available at www.guardianglass.com or from your local Guardian representative upon request). It is the responsibility of the purchaser to confirm that the products are suitable for their intended application in compliance with the applicable laws and regulations. Please contact your local Guardian representative to obtain any applicable handling and fabrication guides and for the most current product information.