



# Performance Data for Krestmark Vinyl 220 Replacement Window

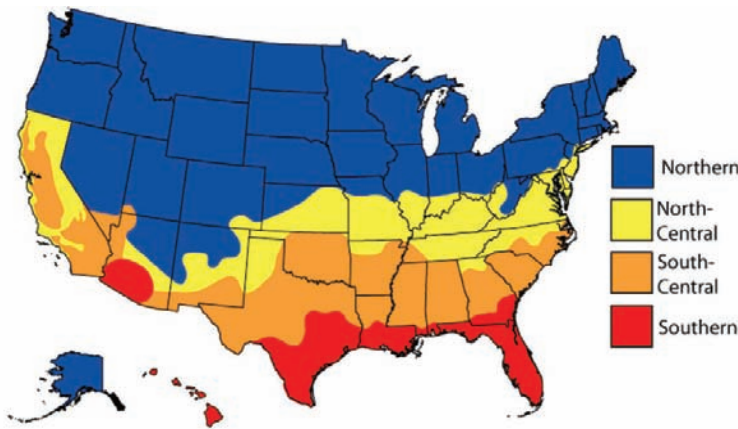
Energy Star® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

Results are already adding up. Americans, with the help of Energy Star, saved enough energy in 2008 alone to avoid greenhouse gas emissions equivalent to those from 29 million cars — all while saving \$19 billion on their utility bills.

The Energy Star performance criteria for windows and doors is different depending on what region of the country the product is being tested. Below is the Energy Star climate map and corresponding requirements for each region.

**Krestmark manufactures vinyl windows that, with several glazing options, meet energy star guidelines in all regions.**

## Energy Star® Qualification Criteria for Residential Windows



ENERGY STAR Program Requirements for Windows, Doors, and Skylights: Version 5.0 (April 7, 2009)

Windows			
Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Northern	≤ 0.30	Any	Prescriptive
	=0.31	≥ 0.35	Equivalent Energy Performance
	=0.32	≥ 0.40	
North-Central	≤ 0.32	≤ 0.40	
South-Central	≤ 0.35	≤ 0.30	
Southern	≤ 0.60	≤ 0.27	

<sup>1</sup> Btu/h.ft<sup>2</sup>.°F

<sup>2</sup> Fraction of incident solar radiation

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3/4" OA Insul		Single Hung			Picture Window		
		U-Factor	SHGC	VT	U-Factor	SHGC	VT
E70 LoE air	no grilles	.33	.30	.55	.32	.31	.58
E70 LoE air	w/grilles	.33	.27	.49	.32	.28	.52
E70 LoE argon	no grilles	.29	.29	.55	.28	.30	.58
E70 LoE argon	w/grilles	.29	.26	.49	.28	.28	.52
E40 LoE air	no grilles	.33	.21	.31	.33	.22	.33
E40 LoE air	w/grilles	.33	.19	.28	.33	.20	.30
E40 LoE argon	no grilles	.30	.20	.32	.29	.21	.33
E40 LoE argon	w/grilles	.30	.18	.28	.29	.19	.30
E66 LoE air	no grilles	.33	.22	.51	.32	.23	.54
E66 LoE air	w/grilles	.33	.20	.45	.32	.21	.48
E66 LoE argon	no grilles	.29	.22	.51	.28	.23	.54
E66 LoE argon	w/grilles	.29	.20	.46	.28	.21	.48

