



The Designers' Choice™

Crystal® Energy Star® Portfolio® Our Family of Products Helps Your Family Save™

Vinyl U-Value Reference Chart By Region

Series CVD-200

X= Has Label

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.38	0.52	0.54	Central	
	Non-Residential	0.38	0.52	0.56	Central	

Argon, Low E (e=0.047) Soft Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.31	0.36	0.51	Northern, Central, Southern	X
	Non-Residential	0.30	0.37	0.53	Northern, Central, Southern	X

Argon, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.35	0.52	0.54	Northern, Central	X
	Non-Residential	0.35	0.52	0.56	Northern, Central	X

Series CVP-210

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.36	0.53	0.56	Central	
	Non-Residential	0.36	0.53	0.57	Central	

Argon, Low E (e=0.047) Soft Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.28	0.36	0.54	Northern, Central, Southern	
	Non-Residential	0.28	0.37	0.54	Northern, Central, Southern	

Argon, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.33	0.52	0.56	Northern, Central	
	Non-Residential	0.33	0.52	0.57	Northern, Central	

Series CVS-220

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.36	0.5	0.52	Central	
	Non-Residential	0.36	0.51	0.55	Central	

Argon, Low E (e=0.047) Soft Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.38	0.35	0.5	Northern, Central, Southern	
	Non-Residential	0.37	0.36	0.52	Northern, Central, Southern	

Argon, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.31	0.5	0.52	Northern, Central	
	Non-Residential	0.3	0.51	0.55	Northern, Central	

Why are CRYSTAL® ENERGY STAR® WINDOWS better than standard air filled windows?

The National Fenestration Council (NFRC) rates the performance of windows on how well they keep your home cool in the summer, and warm in the winter, keep out wind, and resist condensation.

U-Factor: Measures how well a product prevents heat from escaping. The lower the U-Value, the greater insulating performance.

R-Value: Measures insulating value of window, and is the inverse of the U-Value.

VT Visual Transmittance: Measures how much light comes through a window. High VT allows for greater SHGC solar heat gain.

SHGC Solar Heat Gain Coefficient: Measures how well a window blocks heat caused by sunlight. The lower SHGC value, less solar heat transmitted.*

CRYSTAL® ENERGY STAR® CONSUMER TIP*:

For Spring & Summer:

Casement: By adding full screen, you can reduce SHGC by 50%.
 Double Hung: By adding full screen, you can reduce SHGC by 50%
 Double Hung: By adding half screen, you can reduce SHGC by 25%
 Reducing SHGC will reduce your HVAC cooling energy bills!

For Winter:

Casement: By removing full screen, SHGC value is referenced above.
 Double Hung: By removing full screen, SHGC value is referenced above.
 Double Hung: By removing half screen, SHGC value is referenced above.
 Increasing your SHGC will reduce your HVAC heating energy bills!



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Vinyl U-Value Reference Chart By Region

Series CVC-230

X= Has Label

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.34	0.46	0.48	Northern, Central	
	Non-Residential	0.35	0.48	0.51	Northern, Central	

Argon, Low E (e=0.047) Soft Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.28	0.32	0.46	Northern, Central, Southern	
	Non-Residential	0.28	0.34	0.49	Northern, Central, Southern	

Argon, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.32	0.46	0.48	Northern, Central	
	Non-Residential	0.32	0.48	0.51	Northern, Central	

Series CVS-300

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.35	0.48	0.57	Northern, Central	X
	Non-Residential	0.34	0.47	0.59	Northern, Central	X

Series CVP-310

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.35	0.48	0.57	Northern, Central, Southern	
	Non-Residential	0.34	0.47	0.59	Northern, Central, Southern	

Series CVS-320

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.40	0.53	0.55	Central	
	Non-Residential	0.39	0.53	0.57	Central	

Argon, Low E (e=0.047) Soft Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.32	0.37	0.52	Northern, Central, Southern	X
	Non-Residential	0.31	0.37	0.54	Northern, Central, Southern	X

Argon, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.35	0.52	0.54	Central	X
	Non-Residential	0.35	0.52	0.56	Central	X

Series CVD-400

Air, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.37	0.53	0.55	Central	
	Non-Residential	0.36	0.53	0.57	Central	

Argon, Low E (e=0.204) Hard Coating		U-Value	SHGC	VT	Energy Star Region	NFRC Label
	Residential	0.37	0.54	0.56	Central	X
	Non-Residential	0.36	0.54	0.58	Central	X