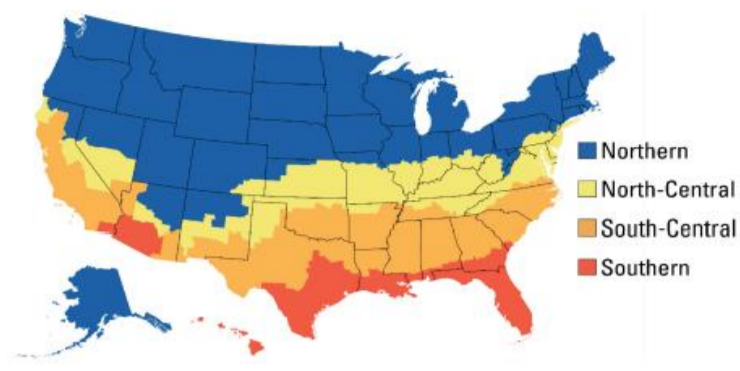



US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>Energy Star Version 7.0 Starting October 2023</p>	Northern	≤ 0.22	≥ 0.17	Prescriptive
		$= 0.23$	≥ 0.35	Equivalent Energy Performance
		$= 0.24$	≥ 0.40	
		$= 0.25$		
		$= 0.26$		
	North-Central	≤ 0.25	≤ 0.40	
South-Central	≤ 0.28	≤ 0.23		
Southern	≤ 0.32	≤ 0.23		

Canadian Qualification Criteria	U-Value	or	Energy Rating
 <p>Energy Star Version 5.0 starting January 2020</p>	≤ 1.22		≥ 34
	Air Leakage ≤ 1.5 L/s/m ²		

U-Value

A measurement of how much energy a material conducts. The lower the U-Value, the greater the insulating effect.

Solar Heat Gain Coefficient (SHGC)

Measures how well a window or door prevents heat from passing through it. The lower a window or door's SHGC, the less heat it allows to pass through it.

Visible Light Transmittance

The amount of light in the visible portion of the spectrum that passes through a glazing material.

Condensation Resistance Rating

Measures how well a window resists the formation of condensation on the inside surface. The higher the number the better resistance to condensation.

Energy Rating

A value demonstrating the balance between U-Value, SHGC and air leakage. The higher the number, the more efficient the product.

R-Value

A measurement of how much a material resists heat transfer. A higher R-Value means a greater insulating effect and a lower rate of heat flow out of the home. While **R-value** measures resistance to heat transfer, **U-value** measures the rate of heat transfer. In simple terms, **U-value** is the mathematical reciprocal of **R-value**; that is, $U = 1/R$ and $R = 1/U$.

^a Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100, NFRC 200, and NFRC 500.

^b Published values reflect 3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA

Classic Casement Windows - Operating



**US
ENERGY STAR
V 7.0**

CANADIAN ENERGY
PERFORMANCE DATA



CANADA
ENERGY
STAR v 5.0

Grille Option	Glazing thickness	aNFRC Total Unit Calculations bGlazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 7.0				U-Value (metric)	Maximum Air Leakage L/s/m2	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 5.0
								N	NC	SC	S					
No GIA or SDL	3/4"	Clear Insul	PEL-N-14-00593-00001	0.45	0.57	0.60	42					2.56	1.5	0.05	17	
	3/4"	Insul Low-E	PEL-N-14-00681-00001	0.32	0.28	0.51	54					1.82	1.5	0.05	16	
	3/4"	Insul Low E w/Argon	PEL-N-14-00685-00001	0.28	0.27	0.51	58					1.59	1.5	0.05	21	
	3/4"	Low-E Extreme	PEL-N-14-00741-00001	0.27	0.27	0.50	42					1.53	1.5	0.05	22	
	3/4"	Low E Extreme w/Argon	PEL-N-14-00745-00001	0.25	0.27	0.50	45		Y			1.42	1.5	0.05	24	
	3/4"	Passive Solar Low-E	PEL-N-14-00641-00001	0.33	0.50	0.58	54					1.87	1.5	0.05	28	
	3/4"	Passive Solar Low-E w/Argon	PEL-N-14-00645-00001	0.29	0.50	0.58	57					1.65	1.5	0.05	33	
	3/4"	Passive Solar Low-E Extreme	PEL-N-14-01069-00001	0.28	0.46	0.56	40					1.59	1.5	0.05	32	
	3/4"	Passive Solar Low-E Extreme w/Argon	PEL-N-14-01073-00001	0.26	0.46	0.56	45	Y				1.48	1.5	0.05	34	Y
	3/4"	Zo-e-shield 5	PEL-N-14-00781-00001	0.32	0.21	0.47	54				Y	1.82	1.5	0.05	12	
	3/4"	Zo-e-shield 5 w/ Argon	PEL-N-14-00785-00001	0.28	0.20	0.47	58			Y	Y	1.59	1.5	0.05	17	
	3/4"	Zo-e-shield 5 Extreme	PEL-N-14-01093-00001	0.27	0.20	0.46	41			Y	Y	1.53	1.5	0.05	18	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	PEL-N-14-01097-00001	0.25	0.20	0.46	46		Y	Y	Y	1.42	1.5	0.05	20	
Less Than 1" GIA or SDL	3/4"	Clear Insul	PEL-N-14-00594-00001	0.45	0.52	0.54	42					2.56	1.5	0.05	14	
	3/4"	Insul Low-E	PEL-N-14-00682-00001	0.32	0.25	0.46	54					1.82	1.5	0.05	14	
	3/4"	Insul Low E w/Argon	PEL-N-14-00686-00001	0.28	0.25	0.46	58					1.59	1.5	0.05	20	
	3/4"	Low-E Extreme	PEL-N-14-00742-00001	0.27	0.25	0.45	42					1.53	1.5	0.05	21	
	3/4"	Low E Extreme w/Argon	PEL-N-14-00746-00001	0.25	0.25	0.45	45		Y			1.42	1.5	0.05	23	
	3/4"	Passive Solar	PEL-N-14-00642-00001	0.33	0.46	0.52	54					1.87	1.5	0.05	26	
	3/4"	Passive Solar w/Argon	PEL-N-14-00646-00001	0.29	0.46	0.52	57					1.65	1.5	0.05	30	
	3/4"	Passive Solar Extreme	PEL-N-14-01070-00001	0.28	0.42	0.51	41					1.59	1.5	0.05	29	
	3/4"	Passive Solar Extreme w/Argon	PEL-N-14-01074-00001	0.26	0.42	0.51	45	Y				1.48	1.5	0.05	32	
	3/4"	Zo-e-shield 5	PEL-N-14-00782-00001	0.32	0.19	0.43	54				Y	1.82	1.5	0.05	11	
	3/4"	Zo-e-shield 5 w/ Argon	PEL-N-14-00786-00001	0.28	0.19	0.43	58			Y	Y	1.59	1.5	0.05	16	
	3/4"	Zo-e-shield 5 Extreme	PEL-N-14-01094-00001	0.27	0.19	0.42	42			Y	Y	1.53	1.5	0.05	17	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	PEL-N-14-01098-00001	0.25	0.18	0.42	46		Y	Y	Y	1.42	1.5	0.05	19	