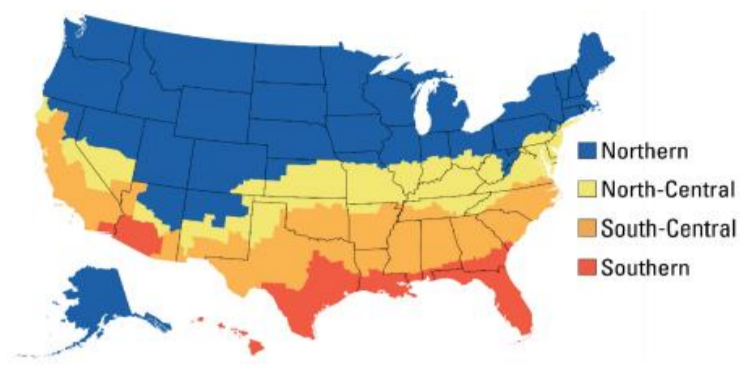



Thermal Performance Data

Classic Direct-set Windows

WEATHER SHIELD.

WINDOWS & DOORS

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 Direct-set Windows



US
ENERGY STAR
V 7.0

CANADIAN ENERGY
PERFORMANCE DATA



CANADA
ENERGY
STAR v 5.0

Grille Option	Glazing thickness	^a NFRC Total Unit Calculations ^b Glazing 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	
								N	NC	SC	S					
No GIA or SDL	3/4"	Clear Insul	PEL-N-18-03341-00001	0.48	0.69	0.72	48					2.73	1.5	0.05	20	
	3/4"	Insul Low-E	PEL-N-18-03349-00001	0.32	0.33	0.62	55					1.82	1.5	0.05	19	
	3/4"	Insul Low E w/Argon	PEL-N-18-03365-00001	0.28	0.32	0.62	58					1.59	1.5	0.05	24	
	3/4"	Low-E Extreme	PEL-N-18-03353-00001	0.26	0.32	0.60	43					1.48	1.5	0.05	26	
	3/4"	Low E Extreme w/Argon	PEL-N-18-03369-00001	0.24	0.32	0.60	47		Y			1.36	1.5	0.05	29	
	3/4"	Passive Solar Low-E	PEL-N-18-03345-00001	0.33	0.60	0.70	54					1.87	1.5	0.05	34	Y
	3/4"	Passive Solar Low-E w/Argon	PEL-N-18-03361-00001	0.29	0.61	0.70	58					1.65	1.5	0.05	39	Y
	3/4"	Passive Solar Low-E Extreme	PEL-N-18-04156-00001	0.27	0.55	0.68	41					1.53	1.5	0.05	38	Y
	3/4"	Passive Solar Low-E Extreme w/Argon	PEL-N-18-04160-00001	0.24	0.55	0.68	45	Y				1.36	1.5	0.05	42	Y
	3/4"	Zo-e-shield 5	PEL-N-18-03357-00001	0.32	0.24	0.57	55					1.82	1.5	0.05	14	
	3/4"	Zo-e-shield 5 w/ Argon	PEL-N-18-03373-00001	0.28	0.24	0.57	59					1.59	1.5	0.05	19	
	3/4"	Zo-e-shield 5 Extreme	PEL-N-18-04420-00001	0.26	0.24	0.56	42					1.48	1.5	0.05	21	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	PEL-N-18-04424-00001	0.23	0.24	0.56	46		Y			1.31	1.5	0.05	25	
Less Than 1" GIA or SDL	3/4"	Clear Insul	PEL-N-18-03342-00001	0.48	0.62	0.65	48					2.73	1.5	0.05	16	
	3/4"	Insul Low-E	PEL-N-18-03350-00001	0.32	0.30	0.55	55					1.82	1.5	0.05	17	
	3/4"	Insul Low E w/Argon	PEL-N-18-03366-00001	0.28	0.29	0.55	58					1.59	1.5	0.05	22	
	3/4"	Low-E Extreme	PEL-N-18-03354-00001	0.26	0.29	0.54	43					1.48	1.5	0.05	24	
	3/4"	Low E Extreme w/Argon	PEL-N-18-03370-00001	0.24	0.29	0.54	47		Y			1.36	1.5	0.05	27	
	3/4"	Passive Solar	PEL-N-18-03346-00001	0.33	0.55	0.63	54					1.87	1.5	0.05	31	
	3/4"	Passive Solar w/Argon	PEL-N-18-03362-00001	0.29	0.55	0.63	58					1.65	1.5	0.05	36	Y
	3/4"	Passive Solar Extreme	PEL-N-18-04157-00001	0.27	0.50	0.61	41					1.53	1.5	0.05	35	Y
	3/4"	Passive Solar Extreme w/Argon	PEL-N-18-04161-00001	0.24	0.50	0.61	45	Y				1.36	1.5	0.05	39	Y
	3/4"	Zo-e-shield 5	PEL-N-18-03358-00001	0.32	0.22	0.51	55				Y	1.82	1.5	0.05	13	
	3/4"	Zo-e-shield 5 w/ Argon	PEL-N-18-03374-00001	0.28	0.22	0.51	59			Y	Y	1.59	1.5	0.05	18	
	3/4"	Zo-e-shield 5 Extreme	PEL-N-18-04421-00001	0.26	0.22	0.50	42			Y	Y	1.48	1.5	0.05	20	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	PEL-N-18-04425-00001	0.23	0.21	0.50	46		Y	Y	Y	1.31	1.5	0.05	23	