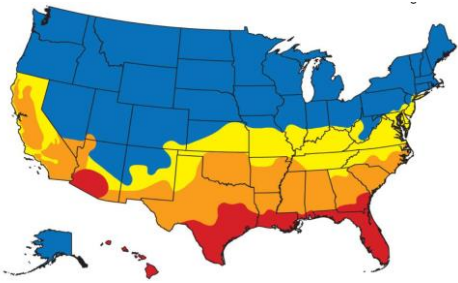
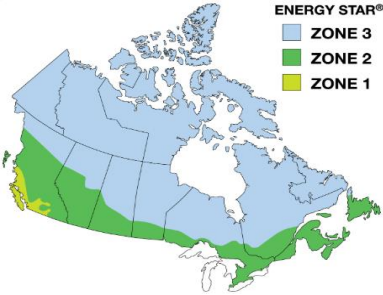


US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>As of January 2016</p>	Northern	<=0.27	Any	Prescriptive
		=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
	North-Central	=0.30	>=0.42	
		<=0.30	<=0.40	
	South-Central	<=0.30	<=0.25	
Southern	<=0.40	<=0.25		

Canadian Qualification Criteria	Climate Zone	U-Value	or	Energy Rating
 <p>As of February 2015</p>	Zone 1	<=1.60		>=25
	Zone 2	<=1.40		>=29
	Zone 3	<=1.20		>=34
	Air Leakage <= 0.3 cfm/ft2			

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/3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA

Aspire Casement Windows - Operating (7205)



US
ENERGY STAR V
6.0

CANADIAN ENERGY
PERFORMANCE DATA



CANADA
ENERGY
STAR v 4.1

Grille Option	Glazing thickness	³NFRC Total Unit Calculations ⁴Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 6.0				U-Value (metric)	Maximum Air Leakage Ls/m²	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 4.1		
								N	NC	SC	S					1	2	3
No GIA or SDL	3/4"	Clear Insul	WEA-N-271-00359-00001	0.43	0.57	0.59	44					2.44	0.6	0.15	19			
	3/4"	Insul Low-E	WEA-N-271-00360-00001	0.31	0.28	0.50	55					1.76	0.6	0.15	17			
	3/4"	Insul Low E w/Argon	WEA-N-271-00366-00001	0.27	0.28	0.50	58	Y	Y			1.53	0.6	0.15	22	Y		
	3/4"	Passive Solar	WEA-N-271-00297-00001	0.31	0.49	0.57	56					1.76	0.6	0.15	29	Y	Y	
	3/4"	Passive Solar w/Argon	WEA-N-271-00324-00001	0.28	0.50	0.57	59	Y				1.59	0.6	0.15	34	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-271-00361-00001	0.30	0.21	0.44	55		Y	Y	Y	1.70	0.6	0.15	15			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-271-00367-00001	0.27	0.20	0.44	59	Y	Y	Y	Y	1.53	0.6	0.15	18	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-271-00252-00001	0.25	0.20	0.45	45	Y	Y	Y	Y	1.42	0.6	0.15	20	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-271-00276-00001	0.23	0.20	0.45	48	Y	Y	Y	Y	1.31	0.6	0.15	23	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-271-00259-00001	0.30	0.20	0.46	57		Y	Y	Y	1.70	0.6	0.15	14			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-271-00283-00001	0.27	0.20	0.46	60	Y	Y	Y	Y	1.53	0.6	0.15	18	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-271-00265-00001	0.29	0.20	0.45	57		Y	Y	Y	1.65	0.6	0.15	15			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-271-00289-00001	0.26	0.20	0.45	61	Y	Y	Y	Y	1.48	0.6	0.15	19	Y		
	3/4"	Insul Low-E 240	WEA-N-271-00306-00001	0.31	0.19	0.29	56				Y	1.76	0.6	0.15	12			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-271-00333-00001	0.28	0.19	0.29	59		Y	Y	Y	1.59	0.6	0.15	16			
	Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-271-00359-00002	0.43	0.52	0.53	44					2.44	0.6	0.15	16		
3/4"		Insul Low-E	WEA-N-271-00360-00002	0.31	0.26	0.46	55					1.76	0.6	0.15	16			
3/4"		Insul Low E w/Argon	WEA-N-271-00366-00002	0.27	0.26	0.46	58	Y	Y			1.53	0.6	0.15	21	Y		
3/4"		Passive Solar	WEA-N-271-00297-00002	0.31	0.45	0.51	56					1.76	0.6	0.15	27	Y		
3/4"		Passive Solar w/Argon	WEA-N-271-00324-00002	0.28	0.45	0.51	59	Y				1.59	0.6	0.15	31	Y	Y	
3/4"		Zo-e-shield 5	WEA-N-271-00361-00002	0.30	0.19	0.40	55		Y	Y	Y	1.70	0.6	0.15	13			
3/4"		Zo-e-shield 5 w/ Argon	WEA-N-271-00367-00002	0.27	0.19	0.40	59	Y	Y	Y	Y	1.53	0.6	0.15	17	Y		
3/4"		Zo-e-shield 5 Extreme	WEA-N-271-00252-00002	0.25	0.18	0.41	45	Y	Y	Y	Y	1.42	0.6	0.15	19	Y		
3/4"		Zo-e-shield 5 Extreme w/ Argon	WEA-N-271-00276-00002	0.23	0.18	0.41	48	Y	Y	Y	Y	1.31	0.6	0.15	21	Y	Y	
3/4"		Zo-e-shield 6	WEA-N-271-00259-00002	0.30	0.18	0.41	57		Y	Y	Y	1.70	0.6	0.15	13			
3/4"		Zo-e-shield 6 w/ Argon	WEA-N-271-00283-00002	0.27	0.18	0.41	60	Y	Y	Y	Y	1.53	0.6	0.15	17	Y		
3/4"		Zo-e SafeGuard Certified	WEA-N-271-00265-00002	0.29	0.18	0.41	57		Y	Y	Y	1.65	0.6	0.15	14			
3/4"		Zo-e SafeGuard Certified w/ Argon	WEA-N-271-00289-00002	0.26	0.18	0.41	61	Y	Y	Y	Y	1.48	0.6	0.15	18	Y		
3/4"		Insul Low-E 240	WEA-N-271-00306-00002	0.31	0.18	0.26	56				Y	1.76	0.6	0.15	12			
3/4"		Insul Low-E 240 w/Argon	WEA-N-271-00333-00002	0.28	0.17	0.26	59		Y	Y	Y	1.59	0.6	0.15	15			
3/4"		Insul Low-E 340	WEA-N-271-00315-00002	0.30	0.13	0.25	57		Y	Y	Y	1.70	0.6	0.15	10			
3/4"	Insul Low-E 340 w/Argon	WEA-N-271-00342-00002	0.27	0.12	0.25	60	Y	Y	Y	Y	1.53	0.6	0.15	13				
3/4"	Bronze Low E	WEA-N-271-00231-00012	0.30	0.26	0.35	56		Y			1.70	0.6	0.15	17				
3/4"	Bronze Low E w/Argon	WEA-N-271-00240-00012	0.27	0.26	0.35	60	Y	Y			1.53	0.6	0.15	21	Y			