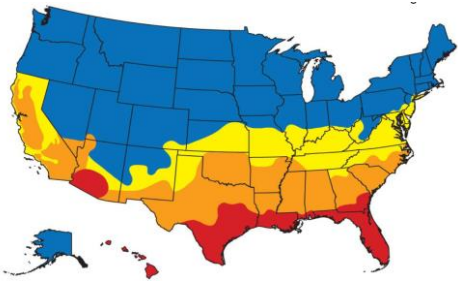
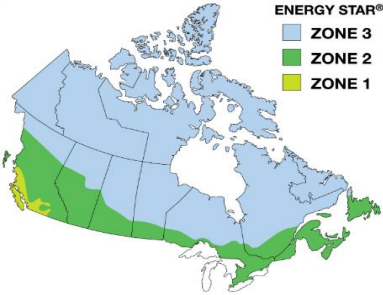


Thermal Performance Data

Aspire Casement Windows - Picture/Transom (7205)

WEATHER SHIELD.
WINDOWS & DOORS

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											CANADIAN ENERGY PERFORMANCE DATA								
Aspire Casement Windows - Picture/Transom (7205)											ENERGY STAR								
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-270-00507-00001	0.44	0.64	0.67	44					2.50	0.6	0.05	22				
	3/4"	Insul Low-E	WEA-N-270-00523-00001	0.30	0.34	0.59	56		Y			1.70	0.6	0.05	22				
	3/4"	Insul Low E w/Argon	WEA-N-270-00539-00001	0.26	0.34	0.59	59	Y	Y			1.48	0.6	0.05	27	Y			
	3/4"	Passive Solar	WEA-N-270-00635-00001	0.31	0.56	0.65	55					1.76	0.6	0.05	34	Y	Y		
	3/4"	Passive Solar w/Argon	WEA-N-270-00683-00001	0.27	0.56	0.65	59	Y				1.53	0.6	0.05	39	Y	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-270-00555-00001	0.30	0.23	0.53	56		Y	Y	Y	Y	1.70	0.6	0.05	16			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-270-00595-00001	0.26	0.23	0.53	60	Y	Y	Y	Y	1.48	0.6	0.05	21	Y			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-270-00563-00001	0.24	0.22	0.52	44	Y	Y	Y	Y	1.36	0.6	0.05	23	Y	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-270-00603-00001	0.22	0.22	0.52	48	Y	Y	Y	Y	1.25	0.6	0.05	25	Y	Y		
	3/4"	Zo-e-shield 6	WEA-N-270-00573-00001	0.30	0.23	0.52	57		Y	Y	Y	1.70	0.6	0.05	16				
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-270-00613-00001	0.26	0.22	0.52	60	Y	Y	Y	Y	1.48	0.6	0.05	20	Y			
	3/4"	Zo-e SafeGuard Certified	WEA-N-270-00581-00001	0.29	0.23	0.52	56		Y	Y	Y	1.65	0.6	0.05	17				
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-270-00621-00001	0.26	0.22	0.52	60	Y	Y	Y	Y	1.48	0.6	0.05	20	Y			
	3/4"	Insul Low-E 240	WEA-N-270-00651-00001	0.30	0.21	0.33	55		Y	Y	Y	1.70	0.6	0.05	15				
	3/4"	Insul Low-E 240 w/Argon	WEA-N-270-00699-00001	0.27	0.21	0.33	59	Y	Y	Y	Y	1.53	0.6	0.05	19	Y			
	3/4"	Insul Low-E 340	WEA-N-270-00667-00001	0.30	0.15	0.32	56		Y	Y	Y	1.70	0.6	0.05	11				
3/4"	Insul Low-E 340 w/Argon	WEA-N-270-00715-00001	0.26	0.15	0.32	60	Y	Y	Y	Y	1.48	0.6	0.05	16	Y				
3/4"	Bronze Low E	WEA-N-270-00523-00011	0.30	0.33	0.43	56		Y			1.70	0.6	0.05	22					
3/4"	Bronze Low E w/Argon	WEA-N-270-00539-00011	0.26	0.32	0.43	59	Y	Y			1.48	0.6	0.05	26	Y				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-270-00507-00002	0.44	0.57	0.60	44					2.50	0.6	0.05	18				
	3/4"	Insul Low-E	WEA-N-270-00523-00002	0.30	0.31	0.53	56		Y			1.70	0.6	0.05	21				
	3/4"	Insul Low E w/Argon	WEA-N-270-00539-00002	0.26	0.31	0.53	59	Y	Y			1.48	0.6	0.05	25	Y			
	3/4"	Passive Solar	WEA-N-270-00635-00002	0.31	0.50	0.58	55					1.76	0.6	0.05	30	Y	Y		
	3/4"	Passive Solar w/Argon	WEA-N-270-00683-00002	0.27	0.51	0.58	59	Y				1.53	0.6	0.05	36	Y	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-270-00555-00002	0.30	0.21	0.47	56		Y	Y	Y	1.70	0.6	0.05	15				
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-270-00595-00002	0.26	0.21	0.47	60	Y	Y	Y	Y	1.48	0.6	0.05	20	Y			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-270-00563-00002	0.24	0.20	0.46	44	Y	Y	Y	Y	1.36	0.6	0.05	22	Y	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-270-00603-00002	0.22	0.20	0.46	48	Y	Y	Y	Y	1.25	0.6	0.05	24	Y	Y		
	3/4"	Zo-e-shield 6	WEA-N-270-00573-00002	0.30	0.21	0.46	57		Y	Y	Y	1.70	0.6	0.05	15				
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-270-00613-00002	0.26	0.20	0.46	60	Y	Y	Y	Y	1.48	0.6	0.05	19	Y			
	3/4"	Zo-e SafeGuard Certified	WEA-N-270-00581-00002	0.29	0.21	0.46	56		Y	Y	Y	1.65	0.6	0.05	16				
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-270-00621-00002	0.26	0.20	0.46	60	Y	Y	Y	Y	1.48	0.6	0.05	19	Y			
	3/4"	Insul Low-E 240	WEA-N-270-00651-00002	0.30	0.19	0.29	55		Y	Y	Y	1.70	0.6	0.05	14				
	3/4"	Insul Low-E 240 w/Argon	WEA-N-270-00699-00002	0.27	0.19	0.29	59	Y	Y	Y	Y	1.53	0.6	0.05	17	Y			
	3/4"	Insul Low-E 340	WEA-N-270-00667-00002	0.30	0.14	0.28	56		Y	Y	Y	1.70	0.6	0.05	11				
3/4"	Insul Low-E 340 w/Argon	WEA-N-270-00715-00002	0.26	0.14	0.28	60	Y	Y	Y	Y	1.48	0.6	0.05	16					
3/4"	Bronze Low E	WEA-N-270-00523-00012	0.30	0.29	0.39	56		Y			1.70	0.6	0.05	19					
3/4"	Bronze Low E w/Argon	WEA-N-270-00539-00012	0.26	0.29	0.39	59	Y	Y			1.48	0.6	0.05	24	Y				