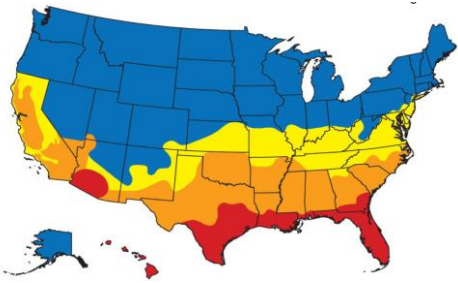
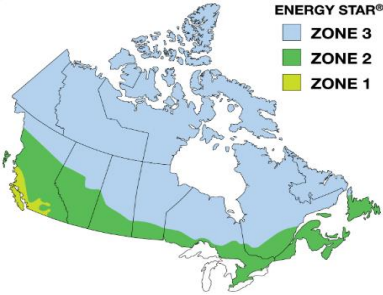


Thermal Performance Data

Premium Bi-fold Windows (8622)

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

Premium Bi-fold Windows (8622)



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				CANADIAN ENERGY PERFORMANCE DATA							
								N	NC	SC	S	U-value (metric)	Maximum Air Leakage Ls/m²	Air Infiltration/Exfiltration Average	Energy Rating	1	2	3	
No GIA or SDL	1"	Clear Insul	WEA-N-299-00001-00001	0.42	0.43	0.45	45					2.39	0.6	0.08	12				
	1"	Insul Low-E	WEA-N-299-00155-00001	0.33	0.23	0.39	53				Y	1.87	0.6	0.49	11				
	1"	Insul Low E w/Argon	WEA-N-299-00169-00001	0.31	0.23	0.39	56				Y	1.76	0.6	0.49	14				
	1"	Zo-e-shield 5	WEA-N-299-00183-00001	0.33	0.16	0.35	53				Y	1.87	0.6	0.49	7				
	1"	Zo-e-shield 5 w/ Argon	WEA-N-299-00209-00001	0.31	0.16	0.35	56				Y	1.76	0.6	0.49	10				
	1"	Zo-e-shield 5 Extreme	WEA-N-299-00187-00001	0.29	0.15	0.34	43			Y	Y	Y	1.65	0.6	0.49	12			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-299-00213-00001	0.27	0.15	0.34	46	Y	Y	Y	Y	1.53	0.6	0.49	14				
	1"	Zo-e-shield 6	WEA-N-299-00191-00001	0.32	0.16	0.34	53				Y	1.82	0.6	0.49	8				
	1"	Zo-e-shield 6 w/ Argon	WEA-N-299-00217-00001	0.30	0.15	0.34	55	Y	Y	Y	Y	1.70	0.6	0.49	10				
	1"	Zo-e SafeGuard Certified	WEA-N-299-00197-00001	0.32	0.16	0.34	53				Y	1.82	0.6	0.49	8				
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-299-00223-00001	0.30	0.15	0.34	56			Y	Y	1.70	0.6	0.49	10				
Less Than 1" GIA or SDL	1"	Bronze Low E	WEA-N-299-00159-00001	0.33	0.22	0.29	53				Y	1.87	0.6	0.49	11				
	1"	Bronze Low E w/Argon	WEA-N-299-00173-00001	0.31	0.22	0.29	56				Y	1.76	0.6	0.49	13				
	1"	Clear Insul	WEA-N-299-00001-00002	0.42	0.37	0.38	45					2.39	0.6	0.08	9				
	1"	Insul Low-E	WEA-N-299-00155-00002	0.33	0.20	0.33	53				Y	1.87	0.6	0.49	10				
	1"	Insul Low E w/Argon	WEA-N-299-00169-00002	0.31	0.20	0.33	56				Y	1.76	0.6	0.49	12				
	1"	Zo-e-shield 5	WEA-N-299-00183-00002	0.33	0.14	0.30	53				Y	1.87	0.6	0.49	6				
	1"	Zo-e-shield 5 w/ Argon	WEA-N-299-00209-00002	0.31	0.14	0.30	56				Y	1.76	0.6	0.49	9				
	1"	Zo-e-shield 5 Extreme	WEA-N-299-00187-00002	0.29	0.14	0.29	43			Y	Y	Y	1.65	0.6	0.49	11			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-299-00213-00002	0.27	0.13	0.29	46	Y	Y	Y	Y	1.53	0.6	0.49	13				
	1"	Zo-e-shield 6	WEA-N-299-00191-00002	0.32	0.14	0.29	53				Y	1.82	0.6	0.49	7				
	1"	Zo-e-shield 6 w/ Argon	WEA-N-299-00217-00002	0.30	0.14	0.29	55	Y	Y	Y	Y	1.70	0.6	0.49	10				
1" Or Over GIA or SDL	1"	Zo-e SafeGuard Certified	WEA-N-299-00197-00002	0.32	0.14	0.29	53				Y	1.82	0.6	0.49	7				
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-299-00223-00002	0.30	0.14	0.29	56			Y	Y	1.70	0.6	0.49	10				
	1"	Bronze Low E	WEA-N-299-00159-00002	0.33	0.19	0.24	53				Y	1.87	0.6	0.49	9				
	1"	Bronze Low E w/Argon	WEA-N-299-00173-00002	0.31	0.19	0.24	56				Y	1.76	0.6	0.49	11				
	1"	Clear Insul	WEA-N-299-00001-00003	0.42	0.31	0.32	45					2.39	0.6	0.08	5				
	1"	Insul Low-E	WEA-N-299-00155-00003	0.33	0.17	0.28	53				Y	1.87	0.6	0.49	8				
	1"	Insul Low E w/Argon	WEA-N-299-00169-00003	0.31	0.17	0.28	56				Y	1.76	0.6	0.49	10				
	1"	Zo-e-shield 5	WEA-N-299-00183-00003	0.33	0.12	0.25	53				Y	1.87	0.6	0.49	5				
	1"	Zo-e-shield 5 w/ Argon	WEA-N-299-00209-00003	0.31	0.12	0.25	56				Y	1.76	0.6	0.49	7				
	1"	Zo-e-shield 5 Extreme	WEA-N-299-00187-00003	0.29	0.12	0.24	43			Y	Y	1.65	0.6	0.49	10				
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-299-00213-00003	0.27	0.12	0.24	46	Y	Y	Y	Y	1.53	0.6	0.49	12				
1"	Zo-e-shield 6	WEA-N-299-00191-00003	0.32	0.12	0.24	53				Y	1.82	0.6	0.49	6					
#####	Zo-e-shield 6 w/ Argon	WEA-N-299-00217-00003	0.30	0.12	0.24	55	Y	Y	Y	Y	1.70	0.6	0.49	9					
1"	Zo-e SafeGuard Certified	WEA-N-299-00197-00003	0.32	0.12	0.24	53				Y	1.82	0.6	0.49	6					
1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-299-00223-00003	0.30	0.12	0.24	56			Y	Y	1.70	0.6	0.49	9					
1"	Bronze Low E	WEA-N-299-00159-00003	0.33	0.17	0.20	53				Y	1.87	0.6	0.49	8					
1"	Bronze Low E w/Argon	WEA-N-299-00173-00003	0.31	0.16	0.20	56				Y	1.76	0.6	0.49	10					