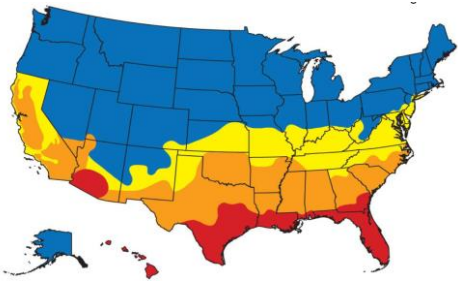
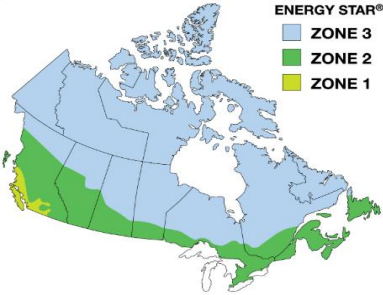


US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>As of January 2016</p>	Northern	<=0.27	Any	Prescriptive
		=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
	North-Central	=0.30	>=0.42	
		<=0.30	<=0.40	
	South-Central	<=0.30	<=0.25	
Southern	<=0.40	<=0.25		

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**.

<sup>a</sup> 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.

<sup>b</sup> Published values reflect 3mm/3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA														CANADIAN ENERGY PERFORMANCE DATA		ENERGY STAR				
Signature Casement Windows - Operating (8219)														US ENERGY STAR V 6.0		CANADA ENERGY STAR v 4.1				
Grille Option	Glazing thickness	a)NFRG Total Unit Calculations b)Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	ENERGY STAR				U-Value (metric)	Maximum Air Leakage Ls/m2	Air Infiltration/Exfiltration Average	Energy Rating	ENERGY STAR				
								N	NC	SC	S					1	2	3		
								US ENERGY STAR V 6.0								CANADA ENERGY STAR v 4.1				
No GIA or SDL	3/4"	Clear Insul	WEA-N-320-00277-00001	0.45	0.56	0.59	42					2.56	0.6	0.05	16					
	3/4"	Insul Low-E	WEA-N-320-00278-00001	0.33	0.28	0.50	53					1.87	0.6	0.05	15					
	3/4"	Insul Low E w/Argon	WEA-N-320-00284-00001	0.30	0.28	0.50	56			Y			1.70	0.6	0.05	19				
	3/4"	Passive Solar	WEA-N-320-00194-00001	0.33	0.47	0.57	53						1.87	0.6	0.05	26	Y			
	3/4"	Passive Solar w/Argon	WEA-N-320-00240-00001	0.30	0.47	0.57	57	Y					1.70	0.6	0.05	30	Y	Y		
	3/4"	Passive Solar Extreme	WEA-N-320-00197-00001	0.29	0.45	0.56	42	Y					1.65	0.6	0.05	30	Y	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-320-00243-00001	0.26	0.45	0.56	45	Y					1.48	0.6	0.05	33	Y	Y		
	3/4"	Zo-e-shield 5	WEA-N-320-00279-00001	0.33	0.21	0.45	53				Y			1.87	0.6	0.05	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-320-00285-00001	0.29	0.21	0.45	56			Y	Y	Y		1.65	0.6	0.05	16			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-320-00206-00001	0.28	0.20	0.45	43			Y	Y	Y		1.59	0.6	0.05	17	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-320-00252-00001	0.25	0.20	0.45	46	Y	Y	Y	Y			1.42	0.6	0.05	20	Y		
	3/4"	Zo-e-shield 6	WEA-N-320-00215-00001	0.34	0.21	0.46	51					Y		1.93	0.6	0.05	10			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-320-00258-00001	0.30	0.20	0.46	55			Y	Y	Y		1.70	0.6	0.05	14			
	3/4"	Zo-e SafeGuard Certified	WEA-N-320-00224-00001	0.34	0.21	0.46	52					Y		1.93	0.6	0.05	10			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-320-00267-00001	0.30	0.20	0.46	56			Y	Y	Y		1.70	0.6	0.05	14			
	1"	Zo-e-shield 7	WEA-N-320-00230-00001	0.26	0.19	0.37	63	Y	Y	Y	Y			1.48	0.6	0.05	18	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-320-00273-00001	0.23	0.18	0.37	66	Y	Y	Y	Y			1.31	0.6	0.05	22	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-320-00200-00001	0.33	0.19	0.29	54					Y		1.87	0.6	0.05	10			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-320-00246-00001	0.30	0.19	0.29	57			Y	Y	Y		1.70	0.6	0.05	14			
	3/4"	Insul Low-E 340	WEA-N-320-00203-00001	0.32	0.14	0.28	54					Y		1.82	0.6	0.05	8			
3/4"	Insul Low-E 340 w/Argon	WEA-N-320-00249-00001	0.29	0.13	0.28	58			Y	Y	Y		1.65	0.6	0.05	11				
3/4"	Bronze Low E	WEA-N-320-00188-00011	0.33	0.29	0.38	54							1.87	0.6	0.05	16				
3/4"	Bronze Low E w/Argon	WEA-N-320-00234-00011	0.30	0.29	0.38	57			Y				1.70	0.6	0.05	19				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-320-00277-00002	0.45	0.51	0.54	42						2.56	0.6	0.05	13				
	3/4"	Insul Low-E	WEA-N-320-00278-00002	0.33	0.26	0.46	53						1.87	0.6	0.05	14				
	3/4"	Insul Low E w/Argon	WEA-N-320-00284-00002	0.30	0.26	0.46	56			Y			1.70	0.6	0.05	18				
	3/4"	Passive Solar	WEA-N-320-00194-00002	0.33	0.43	0.52	53						1.87	0.6	0.05	24				
	3/4"	Passive Solar w/Argon	WEA-N-320-00240-00002	0.30	0.43	0.52	57	Y					1.70	0.6	0.05	28	Y			
	3/4"	Passive Solar Extreme	WEA-N-320-00197-00002	0.29	0.41	0.50	42	Y					1.65	0.6	0.05	27	Y			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-320-00243-00002	0.26	0.41	0.50	45	Y					1.48	0.6	0.05	31	Y	Y		
	3/4"	Zo-e-shield 5	WEA-N-320-00279-00002	0.33	0.19	0.40	53					Y		1.87	0.6	0.05	10			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-320-00285-00002	0.29	0.19	0.40	56			Y	Y	Y		1.65	0.6	0.05	15			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-320-00206-00002	0.28	0.18	0.41	43			Y	Y	Y		1.59	0.6	0.05	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-320-00252-00002	0.25	0.18	0.41	46	Y	Y	Y	Y			1.42	0.6	0.05	19	Y		
	3/4"	Zo-e-shield 6	WEA-N-320-00216-00001	0.36	0.19	0.41	51					Y		2.04	0.6	0.05	6			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-320-00259-00001	0.32	0.19	0.41	55					Y		1.82	0.6	0.05	11			
	3/4"	Zo-e SafeGuard Certified	WEA-N-320-00225-00001	0.36	0.19	0.41	52					Y		2.04	0.6	0.05	6			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-320-00268-00001	0.31	0.19	0.41	56					Y		1.76	0.6	0.05	12			
	1"	Zo-e-shield 7	WEA-N-320-00231-00001	0.26	0.17	0.34	63	Y	Y	Y	Y			1.48	0.6	0.05	17	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-320-00274-00001	0.23	0.17	0.34	66	Y	Y	Y	Y			1.31	0.6	0.05	21	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-320-00200-00002	0.33	0.18	0.26	54					Y		1.87	0.6	0.05	9			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-320-00246-00002	0.30	0.17	0.26	57			Y	Y	Y		1.70	0.6	0.05	12			
	3/4"	Insul Low-E 340	WEA-N-320-00203-00002	0.32	0.13	0.25	54					Y		1.82	0.6	0.05	8			
3/4"	Insul Low-E 340 w/Argon	WEA-N-320-00249-00002	0.29	0.12	0.25	58			Y	Y	Y		1.65	0.6	0.05	11				
3/4"	Bronze Low E	WEA-N-320-00188-00012	0.33	0.27	0.35	54							1.87	0.6	0.05	15				
3/4"	Bronze Low E w/Argon	WEA-N-320-00234-00012	0.30	0.26	0.35	57			Y				1.70	0.6	0.05	18				
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-320-00277-00003	0.45	0.47	0.48	42						2.56	0.6	0.05	11				
	3/4"	Insul Low-E	WEA-N-320-00278-00003	0.33	0.24	0.41	53						1.87	0.6	0.05	13				
	3/4"	Insul Low E w/Argon	WEA-N-320-00284-00003	0.30	0.23	0.41	56			Y	Y	Y		1.70	0.6	0.05	16			
	3/4"	Passive Solar	WEA-N-320-00194-00003	0.33	0.39	0.47	53						1.87	0.6	0.05	21				
	3/4"	Passive Solar w/Argon	WEA-N-320-00240-00003	0.30	0.39	0.47	57			Y				1.70	0.6	0.05	25	Y		
	3/4"	Passive Solar Extreme	WEA-N-320-00197-00003	0.29	0.37	0.45	42	Y	Y					1.65	0.6	0.05	25	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-320-00243-00003	0.26	0.38	0.45	45	Y	Y					1.48	0.6	0.05	29	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-320-00279-00003	0.33	0.18	0.36	53					Y		1.87	0.6	0.05	9			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-320-00285-00003	0.29	0.17	0.36	56			Y	Y	Y		1.65	0.6	0.05	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-320-00206-00003	0.28	0.17	0.37	43			Y	Y	Y		1.59	0.6	0.05	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-320-00252-00003	0.25	0.17	0.37	46	Y	Y	Y	Y			1.42	0.6	0.05	19	Y		
	3/4"	Zo-e-shield 6	WEA-N-320-00216-00002	0.36	0.17	0.37	51					Y		2.04	0.6	0.05	5			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-320-00259-00002	0.32	0.17	0.37	55					Y		1.82	0.6	0.05	10			
	3/4"	Zo-e SafeGuard Certified	WEA-N-320-00225-00002	0.36	0.17	0.37	52					Y		2.04	0.6	0.05	5			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-320-00268-00002	0.31	0.17	0.37	56					Y		1.76	0.6	0.05	11			
	1"	Zo-e-shield 7	WEA-N-320-00231-00002	0.26	0.16	0.30	63	Y	Y	Y	Y			1.48	0.6	0.05	17	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-320-00274-00002	0.23	0.16	0.30	66	Y	Y	Y	Y			1.31	0.6	0.05	20	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-320-00200-00003	0.33	0.16	0.24	54					Y		1.87	0.6	0.05	8			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-320-00246-00003	0.30	0.16	0.24	57			Y	Y	Y		1.70	0.6	0.05	12			
	3/4"	Insul Low-E 340	WEA-N-320-00203-00003	0.32	0.12	0.23	54					Y		1.82	0.6	0.05	7			
3/4"	Insul Low-E 340 w/Argon	WEA-N-320-00249-00003	0.29	0.11	0.23	58			Y	Y	Y		1.65	0.6	0.05	10				
3/4"	Bronze Low E	WEA-N-320-00188-00013	0.33	0.24	0.31	54					Y		1.87	0.6	0.05	13				
3/4"	Bronze Low E w/Argon	WEA-N-320-00234-00013	0.30	0.24	0.31	57			Y	Y	Y		1.70	0.6	0.05	17				