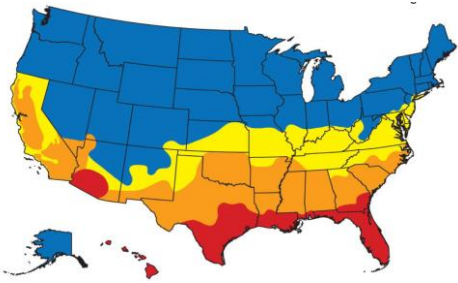
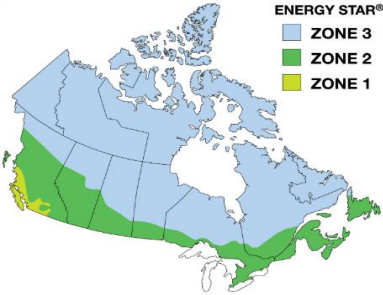


US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>As of January 2016</p>	Northern	<=0.27	Any	Prescriptive
		=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
		=0.30	>=0.42	
	North-Central	<=0.30	<=0.40	
South-Central	<=0.30	<=0.25		
	Southern	<=0.40	<=0.25	

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

Signature Double Hung Windows (8122)



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	3/4"	Clear Insul	WEA-N-319-00277-00001	0.47	0.59	0.61	41					2.67	0.6	0.25	15			
	3/4"	Insul Low-E	WEA-N-319-00278-00001	0.35	0.29	0.52	50					1.99	0.6	0.25	13			
	3/4"	Insul Low E w/Argon	WEA-N-319-00284-00001	0.31	0.29	0.52	53					1.76	0.6	0.25	18			
	3/4"	Passive Solar	WEA-N-319-00192-00001	0.35	0.51	0.59	51					1.99	0.6	0.25	25	Y		
	3/4"	Passive Solar w/Argon	WEA-N-319-00193-00001	0.32	0.51	0.59	54					1.82	0.6	0.25	29	Y	Y	
	3/4"	Passive Solar Extreme	WEA-N-319-00194-00001	0.30	0.46	0.57	40	Y				1.70	0.6	0.25	29	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-319-00195-00001	0.27	0.46	0.57	44	Y				1.53	0.6	0.25	33	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-319-00279-00001	0.34	0.21	0.46	50				Y	1.93	0.6	0.25	9			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00285-00001	0.31	0.21	0.46	53				Y	1.76	0.6	0.25	13			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00190-00001	0.29	0.20	0.47	41		Y	Y	Y	1.65	0.6	0.25	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00191-00001	0.27	0.20	0.47	45	Y	Y	Y	Y	1.53	0.6	0.25	18	Y		
	3/4"	Zo-e-shield 6	WEA-N-319-00206-00001	0.35	0.21	0.47	50				Y	1.99	0.6	0.25	8			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-319-00208-00001	0.31	0.20	0.47	53				Y	1.76	0.6	0.25	13			
	3/4"	Zo-e SafeGuard Certified	WEA-N-319-00222-00001	0.35	0.21	0.46	44				Y	1.99	0.6	0.25	13			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-319-00224-00001	0.31	0.20	0.46	54				Y	1.76	0.6	0.25	13			
	1"	Zo-e-shield 7	WEA-N-319-00226-00001	0.27	0.19	0.38	62	Y	Y	Y	Y	1.53	0.6	0.25	17	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-319-00228-00001	0.24	0.19	0.38	65	Y	Y	Y	Y	1.36	0.6	0.25	21	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-319-00196-00001	0.35	0.19	0.30	52				Y	1.99	0.6	0.25	7			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00197-00001	0.31	0.19	0.30	55				Y	1.76	0.6	0.25	12			
	3/4"	Insul Low-E 340	WEA-N-319-00198-00001	0.34	0.14	0.29	52				Y	1.93	0.6	0.25	5			
3/4"	Insul Low-E 340 w/Argon	WEA-N-319-00199-00001	0.31	0.14	0.29	55				Y	1.76	0.6	0.25	9				
3/4"	Bronze Low E	WEA-N-319-00186-00011	0.34	0.30	0.40	52					1.93	0.6	0.25	15				
3/4"	Bronze Low E w/Argon	WEA-N-319-00187-00011	0.31	0.30	0.40	55					1.76	0.6	0.25	18				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-319-00277-00002	0.47	0.52	0.54	41					2.67	0.6	0.25	11			
	3/4"	Insul Low-E	WEA-N-319-00278-00002	0.35	0.26	0.46	50					1.99	0.6	0.25	11			
	3/4"	Insul Low E w/Argon	WEA-N-319-00284-00002	0.31	0.26	0.46	53					1.76	0.6	0.25	16			
	3/4"	Passive Solar	WEA-N-319-00192-00002	0.35	0.46	0.52	51					1.99	0.6	0.25	22			
	3/4"	Passive Solar w/Argon	WEA-N-319-00193-00002	0.32	0.46	0.52	54					1.82	0.6	0.25	26	Y		
	3/4"	Passive Solar Extreme	WEA-N-319-00194-00002	0.30	0.41	0.51	40					1.70	0.6	0.25	26	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-319-00195-00002	0.27	0.42	0.51	44	Y				1.53	0.6	0.25	30	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-319-00279-00002	0.34	0.19	0.41	50				Y	1.93	0.6	0.25	8			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00285-00002	0.31	0.19	0.41	53				Y	1.76	0.6	0.25	12			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00190-00002	0.29	0.18	0.42	41		Y	Y	Y	1.65	0.6	0.25	14			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00191-00002	0.27	0.18	0.42	45	Y	Y	Y	Y	1.53	0.6	0.25	16	Y		
	3/4"	Zo-e-shield 6	WEA-N-319-00207-00001	0.37	0.19	0.42	50				Y	2.10	0.6	0.25	4			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-319-00209-00001	0.32	0.19	0.42	53				Y	1.82	0.6	0.25	11			
	3/4"	Zo-e SafeGuard Certified	WEA-N-319-00223-00001	0.37	0.19	0.41	44				Y	2.10	0.6	0.25	4			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-319-00225-00001	0.32	0.19	0.41	54				Y	1.82	0.6	0.25	11			
	1"	Zo-e-shield 7	WEA-N-319-00227-00001	0.28	0.17	0.34	62		Y	Y	Y	1.59	0.6	0.25	15			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-319-00229-00001	0.24	0.17	0.34	65	Y	Y	Y	Y	1.36	0.6	0.25	20	Y		
	3/4"	Insul Low-E 240	WEA-N-319-00196-00002	0.35	0.18	0.26	52				Y	1.99	0.6	0.25	6			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00197-00002	0.31	0.17	0.26	55				Y	1.76	0.6	0.25	11			
	3/4"	Insul Low-E 340	WEA-N-319-00198-00002	0.34	0.13	0.26	52				Y	1.93	0.6	0.25	5			
3/4"	Insul Low-E 340 w/Argon	WEA-N-319-00199-00002	0.31	0.12	0.26	55				Y	1.76	0.6	0.25	8				
3/4"	Bronze Low E	WEA-N-319-00186-00012	0.34	0.27	0.35	52					1.93	0.6	0.25	13				
3/4"	Bronze Low E w/Argon	WEA-N-319-00187-00012	0.31	0.27	0.35	55					1.76	0.6	0.25	17				
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-319-00277-00003	0.47	0.46	0.48	41					2.67	0.6	0.25	8			
	3/4"	Insul Low-E	WEA-N-319-00278-00003	0.35	0.23	0.41	50				Y	1.99	0.6	0.25	9			
	3/4"	Insul Low E w/Argon	WEA-N-319-00284-00003	0.31	0.23	0.41	53				Y	1.76	0.6	0.25	14			
	3/4"	Passive Solar	WEA-N-319-00192-00003	0.35	0.40	0.46	51					1.99	0.6	0.25	19			
	3/4"	Passive Solar w/Argon	WEA-N-319-00193-00003	0.32	0.41	0.46	54					1.82	0.6	0.25	23			
	3/4"	Passive Solar Extreme	WEA-N-319-00194-00003	0.30	0.37	0.45	40		Y			1.70	0.6	0.25	24			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-319-00195-00003	0.27	0.37	0.45	44	Y	Y			1.53	0.6	0.25	27	Y		
	3/4"	Zo-e-shield 5	WEA-N-319-00279-00003	0.34	0.17	0.36	50				Y	1.93	0.6	0.25	7			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00285-00003	0.31	0.17	0.36	53				Y	1.76	0.6	0.25	11			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00190-00003	0.29	0.17	0.37	41		Y	Y	Y	1.65	0.6	0.25	13			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00191-00003	0.27	0.16	0.37	45	Y	Y	Y	Y	1.53	0.6	0.25	15			
	3/4"	Zo-e-shield 6	WEA-N-319-00207-00002	0.37	0.17	0.37	50				Y	2.10	0.6	0.25	3			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-319-00209-00002	0.32	0.17	0.37	53				Y	1.82	0.6	0.25	9			
	3/4"	Zo-e SafeGuard Certified	WEA-N-319-00223-00002	0.37	0.17	0.36	44				Y	2.10	0.6	0.25	3			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-319-00225-00002	0.32	0.17	0.36	54				Y	1.82	0.6	0.25	9			
	1"	Zo-e-shield 7	WEA-N-319-00227-00002	0.28	0.16	0.30	62		Y	Y	Y	1.59	0.6	0.25	14			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-319-00229-00002	0.24	0.15	0.30	65	Y	Y	Y	Y	1.36	0.6	0.25	18	Y		
	3/4"	Insul Low-E 240	WEA-N-319-00196-00003	0.35	0.16	0.23	52				Y	1.99	0.6	0.25	5			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00197-00003	0.31	0.15	0.23	55				Y	1.76	0.6	0.25	10			
	3/4"	Insul Low-E 340	WEA-N-319-00198-00003	0.34	0.12	0.23	52				Y	1.93	0.6	0.25	4			
3/4"	Insul Low-E 340 w/Argon	WEA-N-319-00199-00003	0.31	0.11	0.23	55				Y	1.76	0.6	0.25	7				
3/4"	Bronze Low E	WEA-N-319-00186-00013	0.34	0.24	0.31	52				Y	1.93	0.6	0.25	11				
3/4"	Bronze Low E w/Argon	WEA-N-319-00187-00013	0.31	0.24	0.31	55				Y	1.76	0.6	0.25	15				