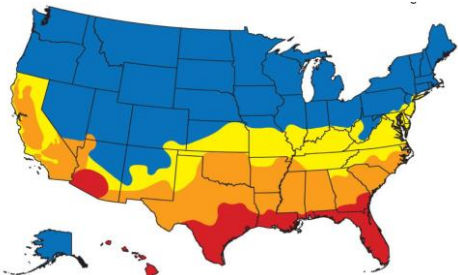
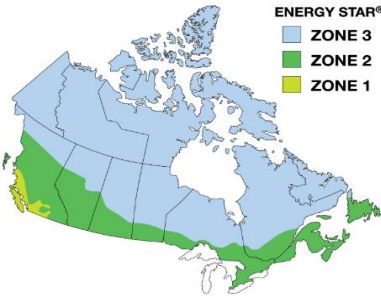


US Qualification Criteria	Climate Zone	U-Value	SHGC	
 As of January 2016	Northern	<=0.27	Any	Prescriptive
		=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
		=0.30	>=0.42	
	North-Central	<=0.30	<=0.40	
	South-Central	<=0.30	<=0.25	
	Southern	<=0.40	<=0.25	

Canadian Qualification Criteria	Climate Zone	U-Value	or	Energy Rating
 As of February 2015	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						
Signature Double Hung Windows (8122)										US ENERGY STAR V 6.0								CANADA ENERGY STAR v 4.1		
Grille Option	Glazing thickness	^a NFRC Total Unit Calculations ^b Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	N	NC	SC	S	U-Value (metric)	Maximum Air Leakage L/s/m2	Air Infiltration/Exfiltration Average	Energy Rating	1	2	3		
No GIA or SDL	3/4"	Clear Insul	WEA-N-319-00185-00001	0.47	0.58	0.61	42					2.67	0.6	0.25	15					
	3/4"	Insul Low-E	WEA-N-319-00186-00001	0.34	0.31	0.53	52					1.93	0.6	0.25	15					
	3/4"	Insul Low E w/Argon	WEA-N-319-00187-00001	0.31	0.31	0.53	55					1.76	0.6	0.25	19					
	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-319-00188-00001	0.34	0.21	0.48	52				Y	1.93	0.6	0.25	9					
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00189-00001	0.30	0.21	0.48	55		Y	Y	Y	1.70	0.6	0.25	14					
	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	8					
	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-319-00185-00002	0.47	0.52	0.54	42					2.67	0.6	0.25	11					
	3/4"	Insul Low-E	WEA-N-319-00186-00002	0.34	0.28	0.47	52					1.93	0.6	0.25	13					
	3/4"	Insul Low E w/Argon	WEA-N-319-00187-00002	0.31	0.28	0.47	55					1.76	0.6	0.25	17					
	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-319-00188-00002	0.34	0.19	0.43	52				Y	1.93	0.6	0.25	8					
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00189-00002	0.30	0.19	0.43	55		Y	Y	Y	1.70	0.6	0.25	13					
	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-319-00185-00003	0.47	0.46	0.48	42					2.67	0.6	0.25	8					
	3/4"	Insul Low-E	WEA-N-319-00186-00003	0.34	0.25	0.42	52				Y	1.93	0.6	0.25	12					
	3/4"	Insul Low E w/Argon	WEA-N-319-00187-00003	0.31	0.25	0.42	55				Y	1.76	0.6	0.25	15					
	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-319-00188-00003	0.34	0.17	0.37	52				Y	1.93	0.6	0.25	7					
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00189-00003	0.30	0.17	0.37	55		Y	Y	Y	1.70	0.6	0.25	12					
	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						