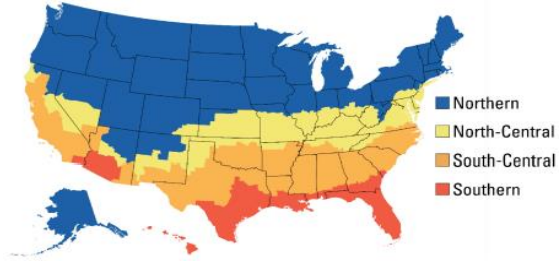



US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>Energy Star Version 7.0 Starting October 2023</p>	Northern	<=0.22	>=0.17	Prescriptive
		=0.23	>=0.35	Equivalent Energy Performance
		=0.24		
		=0.25		
		=0.26	>=0.40	
	North-Central	<=0.25	<=0.40	
South-Central	<=0.28	<=0.23		
Southern	<=0.32	<=0.23		

Canadian Qualification Criteria	U-Value	or	Energy Rating
 <p>Energy Star Version 5.0 starting January 2020</p>	<=1.22		>=34
	Air Leakage <= 1.5 L/s/m2		

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 glass lite thicknesses.

ENERGY PERFORMANCE DATA														CANADIAN ENERGY PERFORMANCE DATA		
Signature Double Hung Windows (8122)														ENERGY STAR		
Grille Option	Glazing thickness	N ^o NFRC Total Unit Calculations Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 7.0				U-Value (metric)	Maximum Air Leakage L/s/m ²	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 5.0
								N	NC	SC	S					
No GIA or SDL	3/4"	Clear Insul	WEA-N-319-00358-00001	0.47	0.58	0.61	42					2.67	1.5	0.25	15	
	3/4"	Insul Low-E	WEA-N-319-00359-00001	0.35	0.31	0.53	51					1.99	1.5	0.25	14	
	3/4"	Insul Low E w/Argon	WEA-N-319-00367-00001	0.32	0.31	0.53	54					1.82	1.5	0.25	18	
	3/4"	Passive Solar	WEA-N-319-00362-00001	0.35	0.51	0.58	51					1.99	1.5	0.25	25	
	3/4"	Passive Solar w/Argon	WEA-N-319-00370-00001	0.32	0.51	0.58	54					1.82	1.5	0.25	29	
	3/4"	Passive Solar Extreme	WEA-N-319-00363-00001	0.30	0.46	0.57	40					1.70	1.5	0.25	29	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-319-00371-00001	0.28	0.46	0.57	43					1.59	1.5	0.25	31	
	3/4"	Zo-e-shield 5	WEA-N-319-00360-00001	0.34	0.21	0.48	52					1.93	1.5	0.25	9	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00368-00001	0.31	0.20	0.48	55				Y	1.76	1.5	0.25	13	
	3/4"	Zo-e-shield 5 (.30 U-factor) w/ Argon	WEA-N-319-00498-00001	0.30	0.20	0.48	55				Y	1.70	1.5	0.25	14	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00361-00001	0.29	0.20	0.47	41				Y	1.65	1.5	0.25	15	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00369-00001	0.27	0.20	0.47	44				Y	1.53	1.5	0.25	18	
	1"	Zo-e-shield 6	WEA-N-319-00448-00001	0.34	0.21	0.47	53					1.93	1.5	0.25	9	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-319-00456-00001	0.31	0.20	0.47	56				Y	1.76	1.5	0.25	13	
	1"	Zo-e SafeGuard Certified	WEA-N-319-00453-00001	0.34	0.20	0.46	53					1.93	1.5	0.25	9	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-319-00461-00001	0.31	0.20	0.46	56				Y	1.76	1.5	0.25	13	
	1"	Zo-e-shield 7	WEA-N-319-00398-00001	0.28	0.19	0.38	62				Y	1.59	1.5	0.25	16	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-319-00412-00001	0.24	0.19	0.38	65				Y	1.36	1.5	0.25	21	
	3/4"	Insul Low-E 240	WEA-N-319-00364-00001	0.35	0.19	0.30	51				Y	1.99	1.5	0.25	7	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00372-00001	0.32	0.19	0.30	54				Y	1.82	1.5	0.25	11	
3/4"	Insul Low-E 340	WEA-N-319-00365-00001	0.34	0.14	0.29	51					1.93	1.5	0.25	5		
3/4"	Insul Low-E 340 w/Argon	WEA-N-319-00373-00001	0.31	0.14	0.29	54				Y	1.76	1.5	0.25	9		
3/4"	Bronze Low E	WEA-N-319-00359-00011	0.35	0.30	0.39	51					1.99	1.5	0.25	13		
3/4"	Bronze Low E w/Argon	WEA-N-319-00367-00011	0.32	0.29	0.39	54					1.82	1.5	0.25	16		
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-319-00358-00002	0.47	0.52	0.54	42					2.67	1.5	0.25	11	
	3/4"	Insul Low-E	WEA-N-319-00359-00002	0.35	0.28	0.47	51					1.99	1.5	0.25	12	
	3/4"	Insul Low E w/Argon	WEA-N-319-00367-00002	0.32	0.28	0.47	54					1.82	1.5	0.25	16	
	3/4"	Passive Solar	WEA-N-319-00362-00002	0.35	0.45	0.52	51					1.99	1.5	0.25	22	
	3/4"	Passive Solar w/Argon	WEA-N-319-00370-00002	0.32	0.46	0.52	54					1.82	1.5	0.25	26	
	3/4"	Passive Solar Extreme	WEA-N-319-00363-00002	0.30	0.41	0.51	40					1.70	1.5	0.25	26	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-319-00371-00002	0.28	0.42	0.51	43					1.59	1.5	0.25	29	
	3/4"	Zo-e-shield 5	WEA-N-319-00360-00002	0.34	0.19	0.42	52					1.93	1.5	0.25	8	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00368-00002	0.31	0.18	0.42	55				Y	1.76	1.5	0.25	11	
	3/4"	Zo-e-shield 5 (.30 U-factor) w/ Argon	WEA-N-319-00498-00002	0.30	0.18	0.42	55				Y	1.70	1.5	0.25	13	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00361-00002	0.29	0.18	0.41	41				Y	1.65	1.5	0.25	14	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00369-00002	0.27	0.18	0.41	44				Y	1.53	1.5	0.25	16	
	1"	Zo-e-shield 6	WEA-N-319-00448-00002	0.34	0.19	0.42	53					1.93	1.5	0.25	8	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-319-00456-00002	0.31	0.18	0.42	56				Y	1.76	1.5	0.25	11	
	1"	Zo-e SafeGuard Certified	WEA-N-319-00453-00002	0.34	0.18	0.41	53					1.93	1.5	0.25	8	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-319-00461-00002	0.31	0.18	0.41	56				Y	1.76	1.5	0.25	11	
	1"	Zo-e-shield 7	WEA-N-319-00399-00001	0.28	0.17	0.34	62				Y	1.59	1.5	0.25	15	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-319-00413-00001	0.25	0.17	0.34	65				Y	1.42	1.5	0.25	18	
	3/4"	Insul Low-E 240	WEA-N-319-00364-00002	0.35	0.18	0.26	51					1.99	1.5	0.25	6	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00372-00002	0.32	0.17	0.26	54				Y	1.82	1.5	0.25	9	
3/4"	Insul Low-E 340	WEA-N-319-00365-00002	0.34	0.13	0.25	51					1.93	1.5	0.25	5		
3/4"	Insul Low-E 340 w/Argon	WEA-N-319-00373-00002	0.31	0.12	0.25	54				Y	1.76	1.5	0.25	8		
3/4"	Bronze Low E	WEA-N-319-00359-00012	0.35	0.27	0.35	51					1.99	1.5	0.25	12		
3/4"	Bronze Low E w/Argon	WEA-N-319-00367-00012	0.32	0.26	0.35	54					1.82	1.5	0.25	15		
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-319-00358-00003	0.47	0.46	0.48	42					2.67	1.5	0.25	8	
	3/4"	Insul Low-E	WEA-N-319-00359-00003	0.35	0.25	0.42	51					1.99	1.5	0.25	10	
	3/4"	Insul Low E w/Argon	WEA-N-319-00367-00003	0.32	0.25	0.42	54					1.82	1.5	0.25	14	
	3/4"	Passive Solar	WEA-N-319-00362-00003	0.35	0.40	0.46	51					1.99	1.5	0.25	19	
	3/4"	Passive Solar w/Argon	WEA-N-319-00370-00003	0.32	0.41	0.46	54					1.82	1.5	0.25	23	
	3/4"	Passive Solar Extreme	WEA-N-319-00363-00003	0.30	0.37	0.45	40					1.70	1.5	0.25	24	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-319-00371-00003	0.28	0.37	0.45	43					1.59	1.5	0.25	26	
	3/4"	Zo-e-shield 5	WEA-N-319-00360-00003	0.34	0.17	0.37	52					1.93	1.5	0.25	7	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00368-00003	0.31	0.17	0.37	55				Y	1.76	1.5	0.25	11	
	3/4"	Zo-e-shield 5 (.30 U-factor) w/ Argon	WEA-N-319-00498-00003	0.30	0.17	0.37	55				Y	1.70	1.5	0.25	12	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00361-00003	0.29	0.17	0.37	41				Y	1.65	1.5	0.25	13	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00369-00003	0.27	0.16	0.37	44				Y	1.53	1.5	0.25	15	
	1"	Zo-e-shield 6	WEA-N-319-00448-00003	0.34	0.17	0.37	53					1.93	1.5	0.25	7	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-319-00456-00003	0.31	0.17	0.37	56				Y	1.76	1.5	0.25	11	
	1"	Zo-e SafeGuard Certified	WEA-N-319-00453-00003	0.34	0.17	0.36	53					1.93	1.5	0.25	7	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-319-00461-00003	0.31	0.16	0.36	56				Y	1.76	1.5	0.25	10	
	1"	Zo-e-shield 7	WEA-N-319-00399-00002	0.28	0.15	0.30	62				Y	1.59	1.5	0.25	13	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-319-00413-00002	0.25	0.15	0.30	65				Y	1.42	1.5	0.25	17	
	3/4"	Insul Low-E 240	WEA-N-319-00364-00003	0.35	0.16	0.23	51					1.99	1.5	0.25	5	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00372-00003	0.32	0.15	0.23	54				Y	1.82	1.5	0.25	8	

3/4"	Insul Low-E 340	WEA-N-319-00365-00003	0.34	0.12	0.22	51					1.93	1.5	0.25	4	
3/4"	Insul Low-E 340 w/Argon	WEA-N-319-00373-00003	0.31	0.11	0.22	54				Y	1.76	1.5	0.25	7	
3/4"	Bronze Low E	WEA-N-319-00359-00013	0.35	0.24	0.31	51					1.99	1.5	0.25	10	
3/4"	Bronze Low E w/Argon	WEA-N-319-00367-00013	0.32	0.24	0.31	54					1.82	1.5	0.25	14	