

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

As of January 2016

Canadian Qualification Criteria		Climate Zone	U-Value	or	Energy Rating
	ENERGY STAR® ZONE 3 ZONE 2 ZONE 1	Zone 1	<=1.60	Air Leakage <= 0.3 cfm/ft ²	>=25
		Zone 2	<=1.40		>=29
		Zone 3	<=1.20		>=34

As of February 2015

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 Direct-Set Windows (8306)											CANADIAN ENERGY PEFORMANCE DATA		CANADA ENERGY STAR v 4.1		
Grille Option	Glazing thickness	aNFRC Total Unit Calculations bGlazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 6.0				U-Value (metric)	Maximum Air Leakage Ls/m ²	Air Infiltration/Exfiltration Average	Energy Rating
								N	NC	SC	S				
No GIA or SDL	1"	Clear Insul	WEA-N-281-01594-00001	0.47	0.67	0.71	42					2.67	0.6	0.05	20
	1"	Insul Low-E	WEA-N-281-01595-00001	0.32	0.36	0.62	53					1.82	0.6	0.05	21
	1"	Insul Low E w/Argon	WEA-N-281-01603-00001	0.28	0.36	0.62	57	Y	Y			1.59	0.6	0.05	26
	1"	Passive Solar	WEA-N-281-01598-00001	0.33	0.59	0.68	53					1.87	0.6	0.05	33
	1"	Passive Solar w/Argon	WEA-N-281-01606-00001	0.29	0.59	0.68	57	Y				1.65	0.6	0.05	38
	1"	Passive Solar Extreme	WEA-N-281-01599-00001	0.27	0.54	0.67	41	Y				1.53	0.6	0.05	38
	1"	Passive Solar Extreme w/Argon	WEA-N-281-01607-00001	0.24	0.54	0.67	45	Y				1.36	0.6	0.05	41
	1"	Zo-e-shield 5	WEA-N-281-01596-00001	0.31	0.24	0.56	54				Y	1.76	0.6	0.05	15
	1"	Zo-e-shield 5 w/ Argon	WEA-N-281-01604-00001	0.27	0.24	0.56	57	Y	Y	Y	Y	1.53	0.6	0.05	20
	1"	Zo-e-shield 5 Extreme	WEA-N-281-01597-00001	0.26	0.23	0.54	42	Y	Y	Y	Y	1.48	0.6	0.05	21
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-281-01605-00001	0.23	0.23	0.54	46	Y	Y	Y	Y	1.31	0.6	0.05	24
	1"	Zo-e-shield 6	WEA-N-281-01676-00001	0.31	0.24	0.55	55				Y	1.76	0.6	0.05	15
	1"	Zo-e-shield 6 w/ Argon	WEA-N-281-01684-00001	0.27	0.23	0.55	58	Y	Y	Y	Y	1.53	0.6	0.05	20
	1"	Zo-e SafeGuard Certified	WEA-N-281-01681-00001	0.31	0.23	0.54	55				Y	1.76	0.6	0.05	15
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-281-01689-00001	0.27	0.23	0.54	58	Y	Y	Y	Y	1.53	0.6	0.05	20
	1"	Zo-e-shield 7	WEA-N-281-01610-00001	0.24	0.22	0.44	64	Y	Y	Y	Y	1.36	0.6	0.05	23
	1"	Zo-e-shield 7 w/ Argon	WEA-N-281-01614-00001	0.20	0.22	0.44	67	Y	Y	Y	Y	1.14	0.6	0.05	28
	1"	Insul Low-E 240	WEA-N-281-01600-00001	0.32	0.22	0.34	53				Y	1.82	0.6	0.05	13
	1"	Insul Low-E 240 w/Argon	WEA-N-281-01608-00001	0.29	0.22	0.34	56				Y	1.65	0.6	0.05	16
	1"	Insul Low-E 340	WEA-N-281-01601-00001	0.32	0.16	0.33	54				Y	1.82	0.6	0.05	9
	1"	Insul Low-E 340 w/Argon	WEA-N-281-01609-00001	0.28	0.16	0.33	57				Y	1.59	0.6	0.05	14
	1"	Bronze Low E	WEA-N-281-01595-00011	0.32	0.34	0.46	53					1.82	0.6	0.05	20
	1"	Bronze Low E w/Argon	WEA-N-281-01603-00011	0.28	0.34	0.46	57	Y	Y			1.59	0.6	0.05	25
Less Than 1" GIA or SDL	1"	Clear Insul	WEA-N-281-01594-00002	0.47	0.61	0.64	42					2.67	0.6	0.05	17
	1"	Insul Low-E	WEA-N-281-01595-00002	0.32	0.33	0.56	53					1.82	0.6	0.05	19
	1"	Insul Low E w/Argon	WEA-N-281-01603-00002	0.28	0.32	0.56	57	Y	Y			1.59	0.6	0.05	24
	1"	Passive Solar	WEA-N-281-01598-00002	0.33	0.53	0.61	53					1.87	0.6	0.05	30
	1"	Passive Solar w/Argon	WEA-N-281-01606-00002	0.29	0.53	0.61	57	Y				1.65	0.6	0.05	34
	1"	Passive Solar Extreme	WEA-N-281-01599-00002	0.27	0.48	0.60	41	Y				1.53	0.6	0.05	34
	1"	Passive Solar Extreme w/Argon	WEA-N-281-01607-00002	0.24	0.49	0.60	45	Y				1.36	0.6	0.05	38
	1"	Zo-e-shield 5	WEA-N-281-01596-00002	0.31	0.22	0.50	54				Y	1.76	0.6	0.05	14
	1"	Zo-e-shield 5 w/ Argon	WEA-N-281-01604-00002	0.27	0.21	0.50	57	Y	Y	Y	Y	1.53	0.6	0.05	19
	1"	Zo-e-shield 5 Extreme	WEA-N-281-01597-00002	0.26	0.21	0.49	42	Y	Y	Y	Y	1.48	0.6	0.05	20
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-281-01605-00002	0.23	0.21	0.49	46	Y	Y	Y	Y	1.31	0.6	0.05	23
	1"	Zo-e-shield 6	WEA-N-281-01676-00002	0.31	0.22	0.49	55				Y	1.76	0.6	0.05	14
	1"	Zo-e-shield 6 w/ Argon	WEA-N-281-01684-00002	0.27	0.21	0.49	58	Y	Y	Y	Y	1.53	0.6	0.05	19
	1"	Zo-e SafeGuard Certified	WEA-N-281-01681-00002	0.31	0.21	0.49	55				Y	1.76	0.6	0.05	13
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-281-01689-00002	0.27	0.21	0.49	58	Y	Y	Y	Y	1.53	0.6	0.05	19
	1"	Zo-e-shield 7	WEA-N-281-01611-00001	0.25	0.20	0.40	55	Y	Y	Y	Y	1.42	0.6	0.05	20
	1"	Zo-e-shield 7 w/ Argon	WEA-N-281-01615-00001	0.21	0.20	0.40	53	Y	Y	Y	Y	1.19	0.6	0.05	25
	1"	Insul Low-E 240	WEA-N-281-01600-00002	0.32	0.20	0.31	53				Y	1.82	0.6	0.05	12
	1"	Insul Low-E 240 w/Argon	WEA-N-281-01608-00002	0.29	0.20	0.31	56				Y	1.65	0.6	0.05	15
	1"	Insul Low-E 340	WEA-N-281-01601-00002	0.32	0.15	0.30	54				Y	1.82	0.6	0.05	9
	1"	Insul Low-E 340 w/Argon	WEA-N-281-01609-00002	0.28	0.14	0.30	57				Y	1.59	0.6	0.05	13
	1"	Bronze Low E	WEA-N-281-01595-00012	0.32	0.31	0.42	53					1.82	0.6	0.05	18
	1"	Bronze Low E w/Argon	WEA-N-281-01603-00012	0.28	0.31	0.42	57				Y	1.59	0.6	0.05	23
1" Or Over GIA or SDL	1"	Clear Insul	WEA-N-281-01594-00003	0.47	0.54	0.57	42					2.67	0.6	0.05	13
	1"	Insul Low-E													