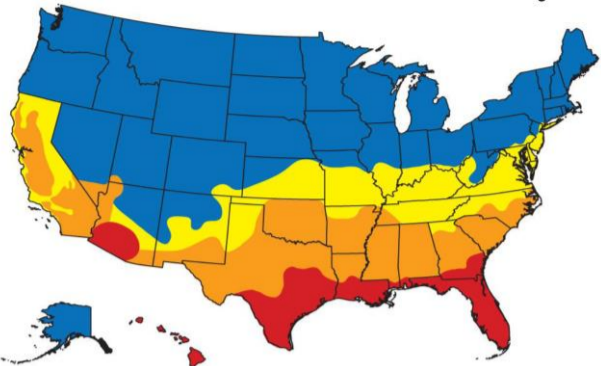
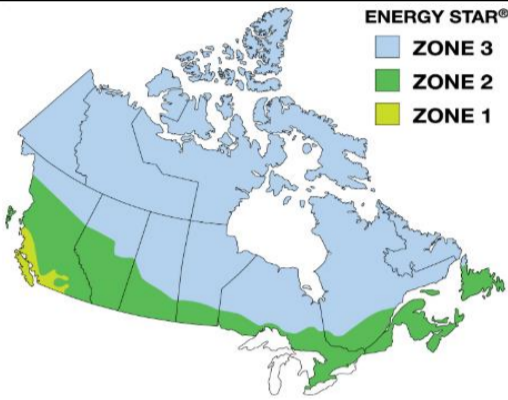


US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>As of January 2016</p>	Northern	<=0.27	Any	Prescriptive
		=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
		=0.30	>=0.42	
	North-Central	<=0.30	<=0.40	
	South-Central	<=0.30	<=0.25	
Southern	<=0.40	<=0.25		

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

Premium Double Hung Windows (8120)



CANADIAN ENERGY PERFORMANCE DATA



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 L/s/m2	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 4.1		
								N	NC	SC	S					1	2	3
No GIA or SDL	3/4"	Clear Insul	WEA-N-282-00485-00001	0.47	0.56	0.59	42					2.67	0.6	0.04	14			
	3/4"	Insul Low-E	WEA-N-282-00497-00001	0.35	0.30	0.51	52					1.99	0.6	0.04	14			
	3/4"	Insul Low E w/Argon	WEA-N-282-00509-00001	0.31	0.30	0.51	55					1.76	0.6	0.04	19			
	3/4"	Passive Solar	WEA-N-282-00554-00001	0.35	0.49	0.57	52					1.99	0.6	0.04	25			
	3/4"	Passive Solar w/Argon	WEA-N-282-00575-00001	0.32	0.49	0.57	55					1.82	0.6	0.04	28	Y		
	3/4"	Zo-e-shield 5	WEA-N-282-00521-00001	0.34	0.20	0.46	52					1.93	0.6	0.04	9			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-282-00537-00001	0.31	0.20	0.46	55					1.76	0.6	0.04	13			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-282-00523-00001	0.29	0.20	0.45	41		Y	Y	Y	1.65	0.6	0.04	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-282-00539-00001	0.27	0.20	0.45	45	Y	Y	Y	Y	1.53	0.6	0.04	18	Y		
	3/4"	Zo-e-shield 6	WEA-N-282-00525-00001	0.35	0.20	0.45	50					1.99	0.6	0.04	8			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-282-00541-00001	0.31	0.20	0.45	53					1.76	0.6	0.04	13			
	3/4"	Zo-e SafeGuard Certified	WEA-N-282-00529-00001	0.35	0.20	0.45	44					1.99	0.6	0.04	8			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-282-00545-00001	0.31	0.20	0.45	54					1.76	0.6	0.04	13			
	3/4"	Zo-e-shield 7	WEA-N-282-00879-00001	0.28	0.19	0.37	62		Y	Y	Y	1.59	0.6	0.04	16	Y		
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-282-00887-00001	0.25	0.18	0.37	64	Y	Y	Y	Y	1.42	0.6	0.04	19	Y		
	3/4"	Insul Low-E 240	WEA-N-282-00561-00001	0.35	0.19	0.29	52					1.99	0.6	0.04	7			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-282-00582-00001	0.32	0.18	0.29	55					1.82	0.6	0.04	10			
	3/4"	Insul Low-E 340	WEA-N-282-00568-00001	0.34	0.14	0.28	52					1.93	0.6	0.04	6			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-282-00589-00001	0.31	0.13	0.28	55					1.76	0.6	0.04	9			
	3/4"	Bronze Low E	WEA-N-282-00500-00001	0.35	0.29	0.38	52					1.99	0.6	0.04	13			
3/4"	Bronze Low E w/Argon	WEA-N-282-00512-00001	0.31	0.29	0.38	55					1.76	0.6	0.04	18				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-282-00485-00002	0.47	0.50	0.52	42					2.67	0.6	0.04	10			
	3/4"	Insul Low-E	WEA-N-282-00497-00002	0.35	0.27	0.46	52					1.99	0.6	0.04	12			
	3/4"	Insul Low E w/Argon	WEA-N-282-00509-00002	0.31	0.27	0.46	55					1.76	0.6	0.04	17			
	3/4"	Passive Solar	WEA-N-282-00554-00002	0.35	0.44	0.50	52					1.99	0.6	0.04	22			
	3/4"	Passive Solar w/Argon	WEA-N-282-00575-00002	0.32	0.44	0.50	55					1.82	0.6	0.04	25	Y		
	3/4"	Zo-e-shield 5	WEA-N-282-00521-00002	0.34	0.18	0.41	52					1.93	0.6	0.04	8			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-282-00537-00002	0.31	0.18	0.41	55					1.76	0.6	0.04	12			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-282-00523-00002	0.29	0.18	0.40	41		Y	Y	Y	1.65	0.6	0.04	14			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-282-00539-00002	0.27	0.18	0.40	45	Y	Y	Y	Y	1.53	0.6	0.04	17	Y		
	3/4"	Zo-e-shield 6	WEA-N-282-00526-00001	0.36	0.18	0.40	50					2.04	0.6	0.04	6			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-282-00542-00001	0.32	0.18	0.40	53					1.82	0.6	0.04	10			
	3/4"	Zo-e SafeGuard Certified	WEA-N-282-00530-00001	0.36	0.18	0.40	44					2.04	0.6	0.04	6			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-282-00546-00001	0.32	0.18	0.40	53					1.82	0.6	0.04	10			
	3/4"	Zo-e-shield 7	WEA-N-282-00880-00001	0.28	0.17	0.33	62		Y	Y	Y	1.59	0.6	0.04	15			
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-282-00888-00001	0.25	0.17	0.33	64	Y	Y	Y	Y	1.42	0.6	0.04	19	Y		
	3/4"	Insul Low-E 240	WEA-N-282-00561-00002	0.35	0.17	0.25	52					1.99	0.6	0.04	6			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-282-00582-00002	0.32	0.17	0.25	55					1.82	0.6	0.04	10			
	3/4"	Insul Low-E 340	WEA-N-282-00568-00002	0.34	0.12	0.25	52					1.93	0.6	0.04	5			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-282-00589-00002	0.31	0.12	0.25	55					1.76	0.6	0.04	8			
	3/4"	Bronze Low E	WEA-N-282-00500-00002	0.35	0.26	0.34	52					1.99	0.6	0.04	11			
3/4"	Bronze Low E w/Argon	WEA-N-282-00512-00002	0.31	0.26	0.34	55					1.76	0.6	0.04	16				
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-282-00485-00003	0.47	0.44	0.46	42					2.67	0.6	0.04	7			
	3/4"	Insul Low-E	WEA-N-282-00497-00003	0.35	0.24	0.40	52					1.99	0.6	0.04	10			
	3/4"	Insul Low E w/Argon	WEA-N-282-00509-00003	0.31	0.24	0.40	55					1.76	0.6	0.04	15			
	3/4"	Passive Solar	WEA-N-282-00554-00003	0.35	0.39	0.44	52					1.99	0.6	0.04	19			
	3/4"	Passive Solar w/Argon	WEA-N-282-00575-00003	0.32	0.39	0.44	55					1.82	0.6	0.04	23			
	3/4"	Zo-e-shield 5	WEA-N-282-00521-00003	0.34	0.16	0.36	52					1.93	0.6	0.04	7			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-282-00537-00003	0.31	0.16	0.36	55					1.76	0.6	0.04	11			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-282-00523-00003	0.29	0.16	0.35	41		Y	Y	Y	1.65	0.6	0.04	13			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-282-00539-00003	0.27	0.16	0.35	45	Y	Y	Y	Y	1.53	0.6	0.04	16			
	3/4"	Zo-e-shield 6	WEA-N-282-00526-00002	0.36	0.17	0.35	50					2.04	0.6	0.04	5			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-282-00542-00002	0.32	0.16	0.35	53					1.82	0.6	0.04	9			
	3/4"	Zo-e SafeGuard Certified	WEA-N-282-00530-00002	0.36	0.16	0.35	44					2.04	0.6	0.04	4			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-282-00546-00002	0.32	0.16	0.35	53					1.82	0.6	0.04	9			
	3/4"	Zo-e-shield 7	WEA-N-282-00880-00002	0.28	0.15	0.29	62		Y	Y	Y	1.59	0.6	0.04	14			
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-282-00888-00002	0.25	0.15	0.29	64	Y	Y	Y	Y	1.42	0.6	0.04	17	Y		
	3/4"	Insul Low-E 240	WEA-N-282-00561-00003	0.35	0.15	0.22	52					1.99	0.6	0.04	5			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-282-00582-00003	0.32	0.15	0.22	55					1.82	0.6	0.04	9			
	3/4"	Insul Low-E 340	WEA-N-282-00568-00003	0.34	0.11	0.22	52					1.93	0.6	0.04	4			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-282-00589-00003	0.31	0.11	0.22	55					1.76	0.6	0.04	8			
	3/4"	Bronze Low E	WEA-N-282-00500-00003	0.35	0.23	0.30	52					1.99	0.6	0.04	10			
3/4"	Bronze Low E w/Argon	WEA-N-282-00512-00003	0.31	0.23	0.30	55					1.76	0.6	0.04	15				