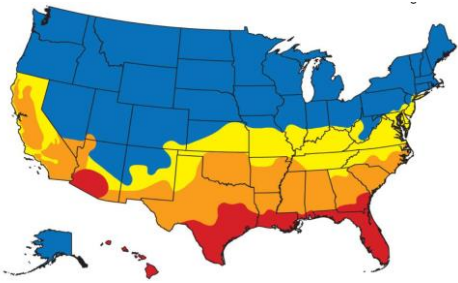
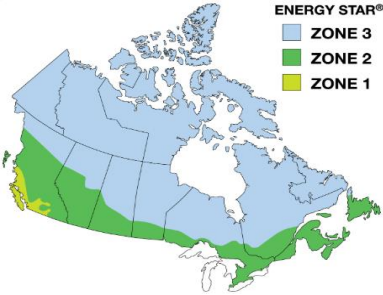


US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>As of January 2016</p>	Northern	<=0.27	Any	Prescriptive
		=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
		=0.30	>=0.42	
	North-Central	<=0.30	<=0.40	
South-Central	<=0.30	<=0.25		
	Southern	<=0.40	<=0.25	

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 Transom Windows (8117)



CANADIAN ENERGY PERFORMANCE DATA



Grille Option	Glazing thickness	a)NRC Total Unit Calculations b)Glazing 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-291-01654-00001	0.46	0.60	0.63	44					2.61	0.6	0.05	17						
	3/4"	Insul Low-E	WEA-N-291-01655-00001	0.32	0.30	0.54	55					1.82	0.6	0.05	17						
	3/4"	Insul Low E w/Argon	WEA-N-291-01661-00001	0.28	0.30	0.54	59		Y				1.59	0.6	0.05	22	Y				
	3/4"	Passive Solar	WEA-N-291-01466-00001	0.33	0.50	0.61	56						1.87	0.6	0.05	28	Y				
	3/4"	Passive Solar w/Argon	WEA-N-291-01523-00001	0.29	0.50	0.61	59	Y					1.65	0.6	0.05	33	Y	Y			
	3/4"	Passive Solar Extreme	WEA-N-291-01470-00001	0.27	0.48	0.60	43	Y					1.53	0.6	0.05	34	Y	Y	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-291-01527-00001	0.25	0.48	0.60	46	Y					1.42	0.6	0.05	37	Y	Y	Y		
	3/4"	Zo-e-shield 5	WEA-N-291-01656-00001	0.32	0.22	0.48	55				Y			1.82	0.6	0.05	13				
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-291-01662-00001	0.28	0.22	0.48	59		Y	Y	Y	Y		1.59	0.6	0.05	18	Y			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-291-01482-00001	0.27	0.21	0.49	44	Y	Y	Y	Y			1.53	0.6	0.05	19	Y			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-291-01539-00001	0.24	0.21	0.49	48	Y	Y	Y	Y			1.36	0.6	0.05	22	Y	Y		
	3/4"	Zo-e-shield 6	WEA-N-291-01492-00001	0.34	0.22	0.49	53				Y			1.93	0.6	0.05	10				
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-291-01546-00001	0.29	0.21	0.49	57		Y	Y	Y			1.65	0.6	0.05	16				
	3/4"	Zo-e SafeGuard Certified	WEA-N-291-01501-00001	0.34	0.22	0.49	54				Y			1.93	0.6	0.05	10				
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-291-01555-00001	0.29	0.21	0.49	58		Y	Y	Y			1.65	0.6	0.05	16				
	1"	Zo-e-shield 7	WEA-N-291-01507-00001	0.25	0.20	0.40	64	Y	Y	Y	Y			1.42	0.6	0.05	20	Y			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-291-01561-00001	0.22	0.19	0.40	64	Y	Y	Y	Y			1.25	0.6	0.05	24	Y	Y		
	Less Than 1" GIA or SDL	3/4"	Insul Low-E 240	WEA-N-291-01474-00001	0.32	0.20	0.31	56				Y			1.82	0.6	0.05	12			
3/4"		Insul Low-E 240 w/Argon	WEA-N-291-01531-00001	0.29	0.20	0.31	60		Y	Y	Y			1.65	0.6	0.05	15				
3/4"		Insul Low-E 340	WEA-N-291-01478-00001	0.32	0.15	0.30	57				Y			1.82	0.6	0.05	9				
3/4"		Insul Low-E 340 w/Argon	WEA-N-291-01535-00001	0.28	0.14	0.30	61		Y	Y	Y			1.59	0.6	0.05	13				
3/4"		Bronze Low E	WEA-N-291-01458-00011	0.32	0.31	0.41	57							1.82	0.6	0.05	18				
3/4"		Bronze Low E w/Argon	WEA-N-291-01515-00011	0.29	0.31	0.41	60		Y					1.65	0.6	0.05	22				
3/4"		Clear Insul	WEA-N-291-01654-00002	0.46	0.54	0.56	44						2.61	0.6	0.05	14					
3/4"		Insul Low-E	WEA-N-291-01655-00002	0.32	0.27	0.48	55						1.82	0.6	0.05	16					
3/4"		Insul Low E w/Argon	WEA-N-291-01661-00002	0.28	0.27	0.48	59		Y					1.59	0.6	0.05	21	Y			
3/4"		Passive Solar	WEA-N-291-01466-00002	0.33	0.45	0.54	56							1.87	0.6	0.05	25				
3/4"		Passive Solar w/Argon	WEA-N-291-01523-00002	0.29	0.45	0.54	59	Y						1.65	0.6	0.05	30	Y	Y		
3/4"		Passive Solar Extreme	WEA-N-291-01470-00002	0.27	0.43	0.53	43	Y						1.53	0.6	0.05	31	Y	Y		
3/4"		Passive Solar Extreme w/Argon	WEA-N-291-01527-00002	0.25	0.43	0.53	46	Y						1.42	0.6	0.05	34	Y	Y		
3/4"		Zo-e-shield 5	WEA-N-291-01656-00002	0.32	0.20	0.43	55					Y			1.82	0.6	0.05	12			
3/4"		Zo-e-shield 5 w/ Argon	WEA-N-291-01662-00002	0.28	0.20	0.43	59		Y	Y	Y	Y			1.59	0.6	0.05	17	Y		
3/4"		Zo-e-shield 5 Extreme	WEA-N-291-01482-00002	0.27	0.19	0.43	44	Y	Y	Y	Y				1.53	0.6	0.05	17	Y		
3/4"		Zo-e-shield 5 Extreme w/ Argon	WEA-N-291-01539-00002	0.24	0.19	0.43	48	Y	Y	Y	Y				1.36	0.6	0.05	21	Y	Y	
3/4"		Zo-e-shield 6	WEA-N-291-01493-00001	0.36	0.20	0.44	53					Y			2.04	0.6	0.05	7			
3/4"	Zo-e-shield 6 w/ Argon	WEA-N-291-01547-00001	0.31	0.19	0.44	57					Y			1.76	0.6	0.05	12				
3/4"	Zo-e SafeGuard Certified	WEA-N-291-01502-00001	0.36	0.20	0.44	54					Y			2.04	0.6	0.05	7				
3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-291-01556-00001	0.31	0.19	0.44	58					Y			1.76	0.6	0.05	12				
1"	Zo-e-shield 7	WEA-N-291-01508-00001	0.26	0.18	0.35	64	Y	Y	Y	Y				1.48	0.6	0.05	18	Y			
1"	Zo-e-shield 7 w/ Argon	WEA-N-291-01562-00001	0.22	0.18	0.35	64	Y	Y	Y	Y				1.25	0.6	0.05	23	Y	Y		
1" Or Over GIA or SDL	3/4"	Insul Low-E 240	WEA-N-291-01474-00002	0.32	0.18	0.27	56					Y			1.82	0.6	0.05	10			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-291-01531-00002	0.29	0.18	0.27	60		Y	Y	Y				1.65	0.6	0.05	14			
	3/4"	Insul Low-E 340	WEA-N-291-01478-00002	0.32	0.13	0.27	57					Y			1.82	0.6	0.05	8			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-291-01535-00002	0.28	0.13	0.27	61		Y	Y	Y				1.59	0.6	0.05	13			
	3/4"	Bronze Low E	WEA-N-291-01458-00012	0.32	0.28	0.36	57								1.82	0.6	0.05	16			
	3/4"	Bronze Low E w/Argon	WEA-N-291-01515-00012	0.29	0.28	0.36	60		Y						1.65	0.6	0.05	20			
	3/4"	Clear Insul	WEA-N-291-01654-00003	0.46	0.48	0.50	44							2.61	0.6	0.05	10				
	3/4"	Insul Low-E	WEA-N-291-01655-00003	0.32	0.24	0.43	55					Y			1.82	0.6	0.05	14			
	3/4"	Insul Low E w/Argon	WEA-N-291-01661-00003	0.28	0.24	0.43	59		Y	Y	Y				1.59	0.6	0.05	19	Y		
	3/4"	Passive Solar	WEA-N-291-01466-00003	0.33	0.40	0.48	56								1.87	0.6	0.05	22			
	3/4"	Passive Solar w/Argon	WEA-N-291-01523-00003	0.29	0.40	0.48	59	Y	Y						1.65	0.6	0.05	27	Y		
	3/4"	Passive Solar Extreme	WEA-N-291-01470-00003	0.27	0.38	0.47	43	Y	Y						1.53	0.6	0.05	28	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-291-01527-00003	0.25	0.39	0.47	46	Y	Y						1.42	0.6	0.05	31	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-291-01656-00003	0.32	0.18	0.38	55					Y			1.82	0.6	0.05	10			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-291-01662-00003	0.28	0.18	0.38	59		Y	Y	Y	Y			1.59	0.6	0.05	15			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-291-01482-00003	0.27	0.17	0.38	44	Y	Y	Y	Y				1.53	0.6	0.05	16	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-291-01539-00003	0.24	0.17	0.38	48	Y	Y	Y	Y				1.36	0.6	0.05	20	Y		
	3/4"	Zo-e-shield 6	WEA-N-291-01493-00002	0.36	0.18	0.39	53					Y			2.04	0.6	0.05	6			
3/4"	Zo-e-shield 6 w/ Argon	WEA-N-291-01547-00002	0.31	0.17	0.39	57					Y			1.76	0.6	0.05	11				
3/4"	Zo-e SafeGuard Certified	WEA-N-291-01502-00002	0.36	0.18	0.38	54					Y			2.04	0.6	0.05	6				
3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-291-01556-00002	0.31	0.17	0.38	58					Y			1.76	0.6	0.05	11				
1"	Zo-e-shield 7	WEA-N-291-01508-00002	0.26	0.16	0.31	64	Y	Y	Y	Y				1.48	0.6	0.05	17	Y			
1"	Zo-e-shield 7 w/ Argon	WEA-N-291-01562-00002	0.22	0.16	0.31	64	Y	Y	Y	Y				1.25	0.6	0.05	22	Y	Y		
3/4"	Insul Low-E 240	WEA-N-291-01474-00003	0.32	0.17	0.24	56					Y			1.82	0.6	0.05	10				
3/4"	Insul Low-E 240 w/Argon	WEA-N-291-01531-00003	0.29	0.16	0.24	60		Y	Y	Y				1.65	0.6	0.05	13				
3/4"	Insul Low-E 340	WEA-N-291-01478-00003	0.32	0.12	0.24	57					Y			1.82	0.6	0.05	7				
3/4"	Insul Low-E 340 w/Argon	WEA-N-291-01535-00003	0.28	0.12	0.24	61		Y	Y	Y				1.59	0.6	0.05	12				
3/4"	Bronze Low E	WEA-N-291-01458-00013	0.32	0.25	0.32	57					Y			1.82	0.6	0.05	14				
3/4"	Bronze Low E w/Argon	WEA-N-291-01515-00013	0.29	0.25	0.32	60		Y	Y	Y				1.65	0.6	0.05	18				