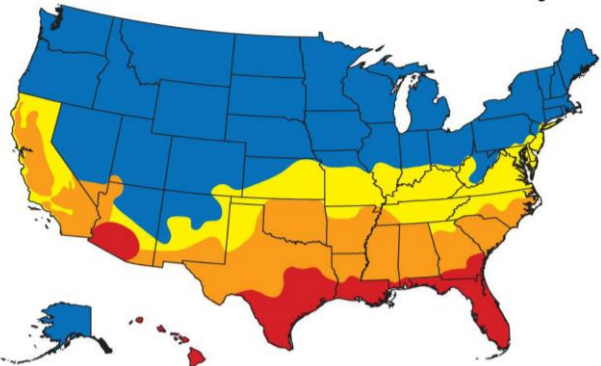


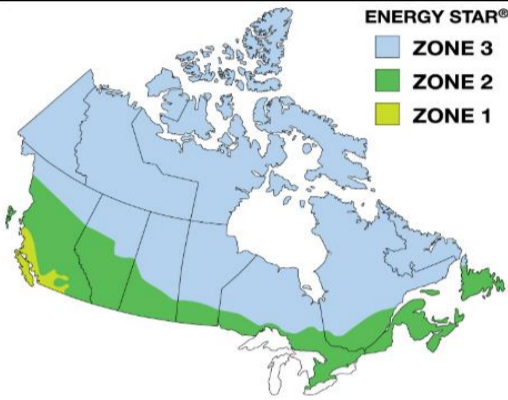
Thermal Performance Data

Premium Wood Double Hung Picture Windows (6122) - Clad Sash

WEATHER SHIELD.

WINDOWS & DOORS

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/ft ²			

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								ENERGY STAR		CANADIAN ENERGY PERFORMANCE DATA				ENERGY STAR					
Premium Wood Double Hung Picture Windows (6122) - Clad Sash								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/m ²	Air Infiltration/Exfiltration Average	Energy Rating	1	2	3	
No GIA or SDL	3/4"	Clear Insul	WEA-N-339-00001-00001	0.45	0.57	0.60	45					2.56	0.6	1.20	14				
	3/4"	Insul Low-E	WEA-N-339-00002-00001	0.32	0.31	0.53	56					1.82	0.6	1.20	16				
	3/4"	Insul Low E w/Argon	WEA-N-339-00010-00001	0.29	0.31	0.53	60		Y			1.65	0.6	1.20	19				
	3/4"	Passive Solar	WEA-N-339-00005-00001	0.33	0.50	0.58	56					1.87	0.6	1.20	26	Y			
	3/4"	Passive Solar w/Argon	WEA-N-339-00013-00001	0.30	0.51	0.58	60	Y				1.70	0.6	1.20	30	Y	Y		
	3/4"	Passive Solar Extreme	WEA-N-339-00006-00001	0.28	0.46	0.57	43	Y				1.59	0.6	1.20	29	Y	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-339-00014-00001	0.25	0.46	0.57	46	Y				1.42	0.6	1.20	33	Y	Y		
	3/4"	Zo-e-shield 5	WEA-N-339-00003-00001	0.32	0.21	0.48	57				Y		1.82	0.6	1.20	10			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-339-00011-00001	0.28	0.20	0.48	61		Y	Y	Y		1.59	0.6	1.20	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-339-00004-00001	0.27	0.20	0.47	44	Y	Y	Y	Y		1.53	0.6	1.20	16			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-339-00012-00001	0.24	0.20	0.47	48	Y	Y	Y	Y		1.36	0.6	1.20	19	Y		
	3/4"	Zo-e-shield 6	WEA-N-339-00083-00001	0.32	0.20	0.47	58				Y		1.82	0.6	1.20	9			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-339-00091-00001	0.28	0.20	0.47	61		Y	Y	Y		1.59	0.6	1.20	14			
	3/4"	Zo-e SafeGuard Certified	WEA-N-339-00088-00001	0.31	0.20	0.46	58				Y		1.76	0.6	1.20	11			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-339-00096-00001	0.28	0.20	0.46	62		Y	Y	Y		1.59	0.6	1.20	14			
	3/4"	Zo-e-shield 7	WEA-N-339-00017-00001	0.25	0.19	0.38	63	Y	Y	Y	Y		1.42	0.6	1.20	18	Y		
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-339-00021-00001	0.22	0.19	0.38	64	Y	Y	Y	Y		1.25	0.6	1.20	21	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-339-00007-00001	0.32	0.19	0.29	56				Y		1.82	0.6	1.20	9			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-339-00015-00001	0.29	0.19	0.29	60		Y	Y	Y		1.65	0.6	1.20	12			
	3/4"	Insul Low-E 340	WEA-N-339-00008-00001	0.32	0.14	0.29	57				Y		1.82	0.6	1.20	6			
3/4"	Insul Low-E 340 w/Argon	WEA-N-339-00016-00001	0.28	0.13	0.29	60		Y	Y	Y		1.59	0.6	1.20	10				
3/4"	Bronze Low E	WEA-N-339-00002-00011	0.32	0.29	0.40	56						1.82	0.6	1.20	15				
3/4"	Bronze Low E w/Argon	WEA-N-339-00010-00011	0.29	0.29	0.40	60		Y				1.65	0.6	1.20	18				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-339-00001-00002	0.45	0.51	0.54	45					2.56	0.6	1.20	11				
	3/4"	Insul Low-E	WEA-N-339-00002-00002	0.32	0.28	0.47	56					1.82	0.6	1.20	14				
	3/4"	Insul Low E w/Argon	WEA-N-339-00010-00002	0.29	0.28	0.47	60		Y			1.65	0.6	1.20	18				
	3/4"	Passive Solar	WEA-N-339-00005-00002	0.33	0.45	0.52	56					1.87	0.6	1.20	23				
	3/4"	Passive Solar w/Argon	WEA-N-339-00013-00002	0.30	0.45	0.52	60	Y				1.70	0.6	1.20	26	Y			
	3/4"	Passive Solar Extreme	WEA-N-339-00006-00002	0.28	0.41	0.51	43	Y				1.59	0.6	1.20	26	Y			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-339-00014-00002	0.25	0.41	0.51	46	Y				1.42	0.6	1.20	30	Y	Y		
	3/4"	Zo-e-shield 5	WEA-N-339-00003-00002	0.32	0.19	0.42	57				Y		1.82	0.6	1.20	9			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-339-00011-00002	0.28	0.18	0.42	61		Y	Y	Y		1.59	0.6	1.20	13			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-339-00004-00002	0.27	0.18	0.41	44	Y	Y	Y	Y		1.53	0.6	1.20	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-339-00012-00002	0.24	0.18	0.41	48	Y	Y	Y	Y		1.36	0.6	1.20	18	Y		
	3/4"	Zo-e-shield 6	WEA-N-339-00083-00002	0.32	0.18	0.42	58				Y		1.82	0.6	1.20	8			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-339-00091-00002	0.28	0.18	0.42	61		Y	Y	Y		1.59	0.6	1.20	13			
	3/4"	Zo-e SafeGuard Certified	WEA-N-339-00088-00002	0.31	0.18	0.41	58				Y		1.76	0.6	1.20	9			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-339-00096-00002	0.28	0.18	0.41	62		Y	Y	Y		1.59	0.6	1.20	13			
	3/4"	Zo-e-shield 7	WEA-N-339-00018-00001	0.26	0.17	0.34	63	Y	Y	Y	Y		1.48	0.6	1.20	15			
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-339-00022-00001	0.22	0.17	0.34	64	Y	Y	Y	Y		1.25	0.6	1.20	20	Y	Y	
	3/4"	Insul Low-E 240	WEA-N-339-00007-00002	0.32	0.17	0.26	56				Y		1.82	0.6	1.20	8			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-339-00015-00002	0.29	0.17	0.26	60		Y	Y	Y		1.65	0.6	1.20	11			
	3/4"	Insul Low-E 340	WEA-N-339-00008-00002	0.32	0.13	0.25	57				Y		1.82	0.6	1.20	5			
3/4"	Insul Low-E 340 w/Argon	WEA-N-339-00016-00002	0.28	0.12	0.25	60		Y	Y	Y		1.59	0.6	1.20	10				
3/4"	Bronze Low E	WEA-N-339-00002-00012	0.32	0.26	0.35	56						1.82	0.6	1.20	13				
3/4"	Bronze Low E w/Argon	WEA-N-339-00010-00012	0.29	0.26	0.35	60		Y				1.65	0.6	1.20	17				
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-339-00001-00003	0.45	0.46	0.47	45					2.56	0.6	1.20	8				
	3/4"	Insul Low-E	WEA-N-339-00002-00003	0.32	0.25	0.41	56				Y		1.82	0.6	1.20	12			
	3/4"	Insul Low E w/Argon	WEA-N-339-00010-00003	0.29	0.25	0.41	60		Y	Y	Y		1.65	0.6	1.20	16			
	3/4"	Passive Solar	WEA-N-339-00005-00003	0.33	0.40	0.46	56					1.87	0.6	1.20	20				
	3/4"	Passive Solar w/Argon	WEA-N-339-00013-00003	0.30	0.40	0.46	60		Y			1.70	0.6	1.20	24				
	3/4"	Passive Solar Extreme	WEA-N-339-00006-00003	0.28	0.37	0.45	43	Y	Y			1.59	0.6	1.20	24	Y			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-339-00014-00003	0.25	0.37	0.45	46	Y	Y			1.42	0.6	1.20	28	Y			
	3/4"	Zo-e-shield 5	WEA-N-339-00003-00003	0.32	0.17	0.37	57				Y		1.82	0.6	1.20	8			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-339-00011-00003	0.28	0.16	0.37	61		Y	Y	Y		1.59	0.6	1.20	12			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-339-00004-00003	0.27	0.16	0.36	44	Y	Y	Y	Y		1.53	0.6	1.20	13			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-339-00012-00003	0.24	0.16	0.36	48	Y	Y	Y	Y		1.36	0.6	1.20	17	Y		
	3/4"	Zo-e-shield 6	WEA-N-339-00083-00003	0.32	0.16	0.37	58				Y		1.82	0.6	1.20	7			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-339-00091-00003	0.28	0.16	0.37	61		Y	Y	Y		1.59	0.6	1.20	12			
	3/4"	Zo-e SafeGuard Certified	WEA-N-339-00088-00003	0.31	0.16	0.36	58				Y		1.76	0.6	1.20	8			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-339-00096-00003	0.28	0.16	0.36	62		Y	Y	Y		1.59	0.6	1.20	12			
	3/4"	Zo-e-shield 7	WEA-N-339-00018-00002	0.26	0.15	0.30	63	Y	Y	Y	Y		1.48	0.6	1.20	14			
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-339-00022-00002	0.22	0.15	0.30	64	Y	Y	Y	Y		1.25	0.6	1.20	19	Y		
	3/4"	Insul Low-E 240	WEA-N-339-00007-00003	0.32	0.16	0.23	56				Y		1.82	0.6	1.20	7			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-339-00015-00003	0.29	0.15	0.23	60		Y	Y	Y		1.65	0.6	1.20	10			
	3/4"	Insul Low-E 340	WEA-N-339-00008-00003	0.32	0.11	0.22	57				Y		1.82	0.6	1.20	4			
3/4"	Insul Low-E 340 w/Argon	WEA-N-339-00016-00003	0.28	0.11	0.22	60		Y	Y	Y		1.59	0.6	1.20	9				
3/4"	Bronze Low E	WEA-N-339-00002-00013	0.32	0.24	0.31	56				Y		1.82	0.6	1.20	12				
3/4"	Bronze Low E w/Argon	WEA-N-339-00010-00013	0.29	0.23	0.31	60		Y	Y	Y		1.65	0.6	1.20	15				