



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>Energy Star Version 7.0 Starting October 2023</p>	Northern	<=0.22	>=0.17	Prescriptive
		=0.23	>=0.35	Equivalent Energy Performance
		=0.24	>=0.40	
		=0.25		
		=0.26		
	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							
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Grille Option	Glazing thickness	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/m2	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v5.0		
								N	NC	SC	S							
No GIA or SDL	3/4"	Clear Insul	WEA-N-339-00001-00001	0.45	0.57	0.60	45					2.56	1.5	1.20	14			
	3/4"	Insul Low-E	WEA-N-339-00002-00001	0.32	0.31	0.53	56					1.82	1.5	1.20	16			
	3/4"	Insul Low E w/Argon	WEA-N-339-00010-00001	0.29	0.31	0.53	60					1.65	1.5	1.20	19			
	3/4"	Passive Solar	WEA-N-339-00005-00001	0.33	0.50	0.58	56					1.87	1.5	1.20	26			
	3/4"	Passive Solar w/Argon	WEA-N-339-00013-00001	0.30	0.51	0.58	60					1.70	1.5	1.20	30			
	3/4"	Passive Solar Extreme	WEA-N-339-00006-00001	0.28	0.46	0.57	43					1.59	1.5	1.20	29			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-339-00014-00001	0.25	0.46	0.57	46	Y				1.42	1.5	1.20	33			
	3/4"	Zo-e-shield 5	WEA-N-339-00003-00001	0.32	0.21	0.48	57				Y		1.82	1.5	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	1.59	1.5	1.20	14		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-339-00004-00001	0.27	0.20	0.47	44				Y	Y	1.53	1.5	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	1.36	1.5	1.20	19			
	1"	Zo-e-shield 6	WEA-N-339-00083-00001	0.32	0.20	0.47	58				Y	Y	1.82	1.5	1.20	9		
	1"	Zo-e-shield 6 w/ Argon	WEA-N-339-00091-00001	0.28	0.20	0.47	61				Y	Y	1.59	1.5	1.20	14		
	1"	Zo-e SafeGuard Certified	WEA-N-339-00088-00001	0.31	0.20	0.46	58				Y	Y	1.76	1.5	1.20	11		
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-339-00096-00001	0.28	0.20	0.46	62				Y	Y	1.59	1.5	1.20	14		
	1"	Zo-e-shield 7	WEA-N-339-00017-00001	0.25	0.19	0.38	63		Y	Y	Y	1.42	1.5	1.20	18			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-339-00021-00001	0.22	0.19	0.38	64	Y	Y	Y	Y	1.25	1.5	1.20	21			
	3/4"	Insul Low-E 240	WEA-N-339-00007-00001	0.32	0.19	0.29	56					Y		1.82	1.5	1.20	9	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-339-00015-00001	0.29	0.19	0.29	60					Y		1.65	1.5	1.20	12	
	3/4"	Insul Low-E 340	WEA-N-339-00008-00001	0.32	0.14	0.29	57					Y		1.82	1.5	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	1.59	1.5	1.20	10				
3/4"	Bronze Low E	WEA-N-339-00002-00011	0.32	0.29	0.40	56					Y		1.82	1.5	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	1.5	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	1.5	1.20	11			
	3/4"	Insul Low-E	WEA-N-339-00002-00002	0.32	0.28	0.47	56					1.82	1.5	1.20	14			
	3/4"	Insul Low E w/Argon	WEA-N-339-00010-00002	0.29	0.28	0.47	60					1.65	1.5	1.20	18			
	3/4"	Passive Solar	WEA-N-339-00005-00002	0.33	0.45	0.52	56					1.87	1.5	1.20	23			
	3/4"	Passive Solar w/Argon	WEA-N-339-00013-00002	0.30	0.45	0.52	60					1.70	1.5	1.20	26			
	3/4"	Passive Solar Extreme	WEA-N-339-00006-00002	0.28	0.41	0.51	43					1.59	1.5	1.20	26			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-339-00014-00002	0.25	0.41	0.51	46	Y				1.42	1.5	1.20	30			
	3/4"	Zo-e-shield 5	WEA-N-339-00003-00002	0.32	0.19	0.42	57					Y		1.82	1.5	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	1.59	1.5	1.20	13		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-339-00004-00002	0.27	0.18	0.41	44				Y	Y	1.53	1.5	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	1.36	1.5	1.20	18			
	1"	Zo-e-shield 6	WEA-N-339-00083-00002	0.32	0.18	0.42	58					Y		1.82	1.5	1.20	8	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-339-00091-00002	0.28	0.18	0.42	61				Y	Y	1.59	1.5	1.20	13		
	1"	Zo-e SafeGuard Certified	WEA-N-339-00088-00002	0.31	0.18	0.41	58				Y	Y	1.76	1.5	1.20	9		
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-339-00096-00002	0.28	0.18	0.41	62				Y	Y	1.59	1.5	1.20	13		
	1"	Zo-e-shield 7	WEA-N-339-00018-00001	0.26	0.17	0.34	63				Y	Y	1.48	1.5	1.20	15		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-339-00022-00001	0.22	0.17	0.34	64	Y	Y	Y	Y	1.25	1.5	1.20	20			
	3/4"	Insul Low-E 240	WEA-N-339-00007-00002	0.32	0.17	0.26	56					Y		1.82	1.5	1.20	8	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-339-00015-00002	0.29	0.17	0.26	60					Y		1.65	1.5	1.20	11	
	3/4"	Insul Low-E 340	WEA-N-339-00008-00002	0.32	0.13	0.25	57					Y		1.82	1.5	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	1.59	1.5	1.20	10				
3/4"	Bronze Low E	WEA-N-339-00002-00012	0.32	0.26	0.35	56					Y		1.82	1.5	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	1.5	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	1.5	1.20	8			
	3/4"	Insul Low-E	WEA-N-339-00002-00003	0.32	0.25	0.41	56					1.82	1.5	1.20	12			
	3/4"	Insul Low E w/Argon	WEA-N-339-00010-00003	0.29	0.25	0.41	60					1.65	1.5	1.20	16			
	3/4"	Passive Solar	WEA-N-339-00005-00003	0.33	0.40	0.46	56					1.87	1.5	1.20	20			
	3/4"	Passive Solar w/Argon	WEA-N-339-00013-00003	0.30	0.40	0.46	60					1.70	1.5	1.20	24			
	3/4"	Passive Solar Extreme	WEA-N-339-00006-00003	0.28	0.37	0.45	43					1.59	1.5	1.20	24			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-339-00014-00003	0.25	0.37	0.45	46		Y			1.42	1.5	1.20	28			
	3/4"	Zo-e-shield 5	WEA-N-339-00003-00003	0.32	0.17	0.37	57					Y		1.82	1.5	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	1.59	1.5	1.20	12		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-339-00004-00003	0.27	0.16	0.36	44				Y	Y	1.53	1.5	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	1.36	1.5	1.20	17			
	1"	Zo-e-shield 6	WEA-N-339-00083-00003	0.32	0.16	0.37	58					Y		1.82	1.5	1.20	7	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-339-00091-00003	0.28	0.16	0.37	61				Y	Y	1.59	1.5	1.20	12		
	1"	Zo-e SafeGuard Certified	WEA-N-339-00088-00003	0.31	0.16	0.36	58					Y		1.76	1.5	1.20	8	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-339-00096-00003	0.28	0.16	0.36	62				Y	Y	1.59	1.5	1.20	12		
	1"	Zo-e-shield 7	WEA-N-339-00018-00002	0.26	0.15	0.30	63				Y	Y	1.48	1.5	1.20	14		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-339-00022-00002	0.22	0.15	0.30	64	Y	Y	Y	Y	1.25	1.5	1.20	19			
	3/4"	Insul Low-E 240	WEA-N-339-00007-00003	0.32	0.16	0.23	56					Y		1.82	1.5	1.20	7	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-339-00015-00003	0.29	0.15	0.23	60					Y		1.65	1.5	1.20	10	
	3/4"	Insul Low-E 340	WEA-N-339-00008-00003	0.32	0.11	0.22	57					Y		1.82	1.5	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	1.59	1.5	1.20	9				
3/4"	Bronze Low E	WEA-N-339-00002-00013	0.32	0.24	0.31	56					Y		1.82	1.5	1.20	12		
3/4"	Bronze Low E w/Argon	WEA-N-339-00010-00013	0.29	0.23	0.31	60					Y		1.65	1.5	1.20	15		