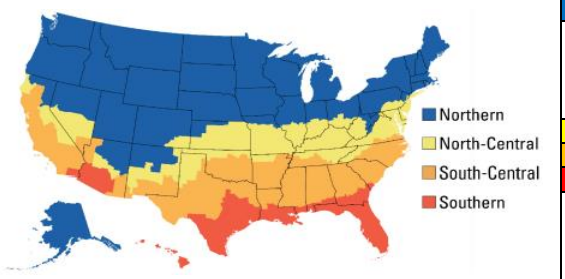
Thermal Performance Data

Premium Wood Double Hung Windows (6123) - Clad Sash

WEATHER SHIELD. WINDOWS & DOORS

US Qualification Criteria	Climate Zone	U-Value	SHGC	
	Northern	<=0.22	>=0.17	Prescriptive
		=0.23	>=0.35	Equivalent Energy Performance
		=0.24		
		=0.25	>=0.40	
		=0.26		
	North-Central	<=0.25	<=0.40	
	South-Central	<=0.28	<=0.23	
	Southern	<=0.32	<=0.23	

Energy Star Version 7.0 Starting October 2023

Canadian Qualification Criteria	U-Value	or	Energy Rating
	<=1.22		>=34

Air Leakage <= 1.5 L/s/m2

Energy Star Version 5.0 starting January 2020

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 resist- ance 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.

Revised 10/23/23

ENERGY PERFORMANCE DATA

Premium Wood Double Hung Windows (6123) - Clad Sash

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	US ENERGY STAR V 7.0 N	NC	SC	S	CANADIAN ENERGY PEFORMANCE DATA U-Value (metric)	Maximum Air Leakage L/s/m2	Air Infiltration/ Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 5.0
No GIA or SDL	3/4"	Clear Insul	WEA-N-338-00001-00001	0.46	0.55	0.58	46					2.61	1.5	1.17	12	
	3/4"	Insul Low-E	WEA-N-338-00002-00001	0.34	0.30	0.51	52					1.93	1.5	1.17	13	
	3/4"	Insul Low E w/Argon	WEA-N-338-00010-00001	0.31	0.30	0.51	55					1.76	1.5	1.17	16	
	3/4"	Passive Solar	WEA-N-338-00005-00001	0.35	0.49	0.56	52					1.99	1.5	1.17	22	
	3/4"	Passive Solar w/Argon	WEA-N-338-00013-00001	0.32	0.49	0.56	55					1.82	1.5	1.17	26	
	3/4"	Passive Solar Extreme	WEA-N-338-00006-00001	0.30	0.44	0.55	41					1.70	1.5	1.17	26	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-338-00014-00001	0.28	0.44	0.55	44					1.59	1.5	1.17	28	
	3/4"	Zo-e-shield 5	WEA-N-338-00003-00001	0.34	0.20	0.46	53					1.93	1.5	1.17	7	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-338-00011-00001	0.31	0.20	0.46	56				Y	1.76	1.5	1.17	11	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-338-00004-00001	0.29	0.19	0.45	42				Y	1.65	1.5	1.17	13	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-338-00012-00001	0.27	0.19	0.45	45			Y	Y	1.53	1.5	1.17	15	
	1"	Zo-e-shield 6	WEA-N-338-00051-00001	0.34	0.20	0.45	54					1.93	1.5	1.17	7	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-338-00059-00001	0.30	0.19	0.45	57				Y	1.70	1.5	1.17	11	
	1"	Zo-e SafeGuard Certified	WEA-N-338-00056-00001	0.33	0.19	0.44	54					1.87	1.5	1.17	8	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-338-00064-00001	0.30	0.19	0.44	57				Y	1.70	1.5	1.17	11	
	1"	Zo-e-shield 7	WEA-N-338-00017-00001	0.28	0.18	0.37	63			Y	Y	1.59	1.5	1.17	13	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-338-00021-00001	0.24	0.18	0.37	64		Y	Y	Y	1.36	1.5	1.17	18	
	3/4"	Insul Low-E 240	WEA-N-338-00007-00001	0.35	0.19	0.28	52					1.99	1.5	1.17	5	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-338-00015-00001	0.32	0.18	0.28	55				Y	1.82	1.5	1.17	8	
	3/4"	Insul Low-E 340	WEA-N-338-00008-00001	0.34	0.13	0.27	52					1.93	1.5	1.17	3	
	3/4"	Insul Low-E 340 w/Argon	WEA-N-338-00016-00001	0.31	0.13	0.27	55				Y	1.76	1.5	1.17	7	
	3/4"	Bronze Low E	WEA-N-338-00002-00011	0.34	0.28	0.38	52					1.93	1.5	1.17	12	
	3/4"	Bronze Low E w/Argon	WEA-N-338-00010-00011	0.31	0.28	0.38	55					1.76	1.5	1.17	15	
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-338-00001-00002	0.46	0.49	0.52	46					2.61	1.5	1.17	9	
	3/4"	Insul Low-E	WEA-N-338-00002-00002	0.34	0.27	0.45	52					1.93	1.5	1.17	11	
	3/4"	Insul Low E w/Argon	WEA-N-338-00010-00002	0.31	0.26	0.45	55					1.76	1.5	1.17	14	
	3/4"	Passive Solar	WEA-N-338-00005-00002	0.35	0.43	0.50	52					1.99	1.5	1.17	19	
	3/4"	Passive Solar w/Argon	WEA-N-338-00013-00002	0.32	0.44	0.50	55					1.82	1.5	1.17	23	
	3/4"	Passive Solar Extreme	WEA-N-338-00006-00002	0.30	0.39	0.48	41					1.70	1.5	1.17	23	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-338-00014-00002	0.28	0.40	0.48	44					1.59	1.5	1.17	26	
	3/4"	Zo-e-shield 5	WEA-N-338-00003-00002	0.34	0.18	0.41	53					1.93	1.5	1.17	6	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-338-00011-00002	0.31	0.18	0.41	56				Y	1.76	1.5	1.17	10	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-338-00004-00002	0.29	0.17	0.40	42				Y	1.65	1.5	1.17	11	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-338-00012-00002	0.27	0.17	0.40	45			Y	Y	1.53	1.5	1.17	14	
	1"	Zo-e-shield 6	WEA-N-338-00051-00002	0.34	0.18	0.40	54					1.93	1.5	1.17	6	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-338-00059-00002	0.30	0.17	0.40	57				Y	1.70	1.5	1.17	10	
	1"	Zo-e SafeGuard Certified	WEA-N-338-00056-00002	0.33	0.18	0.39	54					1.87	1.5	1.17	7	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-338-00064-00002	0.30	0.17	0.39	57				Y	1.70	1.5	1.17	10	
	1"	Zo-e-shield 7	WEA-N-338-00018-00001	0.28	0.16	0.32	54			Y	Y	1.59	1.5	1.17	12	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-338-00022-00001	0.25	0.16	0.32	52		Y	Y	Y	1.42	1.5	1.17	16	
	3/4"	Insul Low-E 240	WEA-N-338-00007-00002	0.35	0.17	0.25	52					1.99	1.5	1.17	4	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-338-00015-00002	0.32	0.16	0.25	55				Y	1.82	1.5	1.17	7	
	3/4"	Insul Low-E 340	WEA-N-338-00008-00002	0.34	0.12	0.24	52					1.93	1.5	1.17	2	
	3/4"	Insul Low-E 340 w/Argon	WEA-N-338-00016-00002	0.31	0.12	0.24	55				Y	1.76	1.5	1.17	6	
	3/4"	Bronze Low E	WEA-N-338-00002-00012	0.34	0.25	0.34	52					1.93	1.5	1.17	10	
	3/4"	Bronze Low E w/Argon	WEA-N-338-00010-00012	0.31	0.25	0.34	55					1.76	1.5	1.17	14	
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-338-00001-00003	0.46	0.44	0.45	46					2.61	1.5	1.17	6	
	3/4"	Insul Low-E	WEA-N-338-00002-00003	0.34	0.24	0.40	52					1.93	1.5	1.17	9	
	3/4"	Insul Low E w/Argon	WEA-N-338-00010-00003	0.31	0.24	0.40	55					1.76	1.5	1.17	13	
	3/4"	Passive Solar	WEA-N-338-00005-00003	0.35	0.38	0.44	52					1.99	1.5	1.17	16	
	3/4"	Passive Solar w/Argon	WEA-N-338-00013-00003	0.32	0.39	0.44	55					1.82	1.5	1.17	20	
	3/4"	Passive Solar Extreme	WEA-N-338-00006-00003	0.30	0.35	0.43	41					1.70	1.5	1.17	21	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-338-00014-00003	0.28	0.35	0.43	44					1.59	1.5	1.17	23	
	3/4"	Zo-e-shield 5	WEA-N-338-00003-00003	0.34	0.16	0.36	53					1.93	1.5	1.17	5	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-338-00011-00003	0.31	0.16	0.36	56				Y	1.76	1.5	1.17	8	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-338-00004-00003	0.29	0.16	0.35	42				Y	1.65	1.5	1.17	11	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-338-00012-00003	0.27	0.16	0.35	45			Y	Y	1.53	1.5	1.17	13	
	1"	Zo-e-shield 6	WEA-N-338-00051-00003	0.34	0.16	0.35	54					1.93	1.5	1.17	5	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-338-00059-00003	0.30	0.16	0.35	57				Y	1.70	1.5	1.17	10	
	1"	Zo-e SafeGuard Certified	WEA-N-338-00056-00003	0.33	0.16	0.35	54					1.87	1.5	1.17	6	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-338-00064-00003	0.30	0.16	0.35	57				Y	1.70	1.5	1.17	10	
	1"	Zo-e-shield 7	WEA-N-338-00018-00002	0.28	0.15	0.28	54			Y	Y	1.59	1.5	1.17	12	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-338-00022-00002	0.25	0.15	0.28	52		Y	Y	Y	1.42	1.5	1.17	15	
	3/4"	Insul Low-E 240	WEA-N-338-00007-00003	0.35	0.15	0.22	52					1.99	1.5	1.17	3	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-338-00015-00003	0.32	0.15	0.22	55				Y	1.82	1.5	1.17	7	
	3/4"	Insul Low-E 340	WEA-N-338-00008-00003	0.34	0.11	0.21	52					1.93	1.5	1.17	2	
	3/4"	Insul Low-E 340 w/Argon	WEA-N-338-00016-00003	0.31	0.11	0.21	55				Y	1.76	1.5	1.17	6	
	3/4"	Bronze Low E	WEA-N-338-00002-00013	0.34	0.23	0.30	52					1.93	1.5	1.17	9	
	3/4"	Bronze Low E w/Argon	WEA-N-338-00010-00013	0.31	0.22	0.30	55				Y	1.76	1.5	1.17	12	