



Thermal Performance Data

Premium Wood Casement Windows - Operating (6204)

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		
			=0.25	>=0.40	
			=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					
Premium Wood Casement Windows - Operating (6204)											ENERGY STAR					
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-242-00371-00001	0.44	0.56	0.59	45					2.50	1.5	0.58	16	
	3/4"	Insul Low-E	WEA-N-242-00372-00001	0.32	0.30	0.51	57					1.82	1.5	0.58	16	
	3/4"	Insul Low E w/Argon	WEA-N-242-00380-00001	0.29	0.30	0.51	61					1.65	1.5	0.58	20	
	3/4"	Passive Solar	WEA-N-242-00375-00001	0.32	0.49	0.56	57					1.82	1.5	0.58	27	
	3/4"	Passive Solar w/Argon	WEA-N-242-00383-00001	0.29	0.49	0.56	60					1.65	1.5	0.58	31	
	3/4"	Passive Solar Extreme	WEA-N-242-00376-00001	0.27	0.44	0.55	44					1.53	1.5	0.58	31	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-242-00384-00001	0.25	0.45	0.55	48	Y				1.42	1.5	0.58	34	Y
	3/4"	Zo-e-shield 5	WEA-N-242-00373-00001	0.31	0.20	0.46	58				Y	1.76	1.5	0.58	12	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-242-00381-00001	0.28	0.20	0.46	61			Y	Y	1.59	1.5	0.58	16	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-242-00374-00001	0.27	0.19	0.45	45			Y	Y	1.53	1.5	0.58	16	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-242-00382-00001	0.24	0.19	0.45	49	Y	Y	Y	Y	1.36	1.5	0.58	20	
	1"	Zo-e-shield 6	WEA-N-242-00413-00001	0.31	0.20	0.45	58				Y	1.76	1.5	0.58	12	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-242-00421-00001	0.28	0.19	0.45	61			Y	Y	1.59	1.5	0.58	15	
	1"	Zo-e SafeGuard Certified	WEA-N-242-00418-00001	0.30	0.20	0.45	58				Y	1.70	1.5	0.58	13	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-242-00426-00001	0.27	0.19	0.45	61			Y	Y	1.53	1.5	0.58	16	
	1"	Zo-e-shield 7	WEA-N-242-00387-00001	0.27	0.18	0.37	63			Y	Y	1.53	1.5	0.58	16	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-242-00391-00001	0.24	0.18	0.37	68	Y	Y	Y	Y	1.36	1.5	0.58	19	
	3/4"	Insul Low-E 240	WEA-N-242-00377-00001	0.32	0.19	0.28	57				Y	1.82	1.5	0.58	10	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-242-00385-00001	0.29	0.18	0.28	60				Y	1.65	1.5	0.58	13	
	3/4"	Insul Low-E 340	WEA-N-242-00378-00001	0.31	0.13	0.28	58				Y	1.76	1.5	0.58	8	
3/4"	Insul Low-E 340 w/Argon	WEA-N-242-00386-00001	0.28	0.13	0.28	61			Y	Y	1.59	1.5	0.58	12		
3/4"	Bronze Low E	WEA-N-242-00372-00011	0.32	0.28	0.38	57					1.82	1.5	0.58	15		
3/4"	Bronze Low E w/Argon	WEA-N-242-00380-00011	0.29	0.28	0.38	61					1.65	1.5	0.58	19		
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-242-00371-00002	0.44	0.51	0.53	45					2.50	1.5	0.58	14	
	3/4"	Insul Low-E	WEA-N-242-00372-00002	0.32	0.27	0.46	57					1.82	1.5	0.58	15	
	3/4"	Insul Low E w/Argon	WEA-N-242-00380-00002	0.29	0.27	0.46	61					1.65	1.5	0.58	18	
	3/4"	Passive Solar	WEA-N-242-00375-00002	0.32	0.44	0.51	57					1.82	1.5	0.58	24	
	3/4"	Passive Solar w/Argon	WEA-N-242-00383-00002	0.29	0.45	0.51	60					1.65	1.5	0.58	29	
	3/4"	Passive Solar Extreme	WEA-N-242-00376-00002	0.27	0.40	0.50	44					1.53	1.5	0.58	28	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-242-00384-00002	0.25	0.41	0.50	48	Y				1.42	1.5	0.58	31	
	3/4"	Zo-e-shield 5	WEA-N-242-00373-00002	0.31	0.18	0.42	58				Y	1.76	1.5	0.58	11	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-242-00381-00002	0.28	0.18	0.42	61			Y	Y	1.59	1.5	0.58	14	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-242-00374-00002	0.27	0.18	0.41	45			Y	Y	1.53	1.5	0.58	16	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-242-00382-00002	0.24	0.18	0.41	49	Y	Y	Y	Y	1.36	1.5	0.58	19	
	1"	Zo-e-shield 6	WEA-N-242-00413-00002	0.31	0.18	0.41	58				Y	1.76	1.5	0.58	11	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-242-00421-00002	0.28	0.18	0.41	61			Y	Y	1.59	1.5	0.58	14	
	1"	Zo-e SafeGuard Certified	WEA-N-242-00418-00002	0.30	0.18	0.41	58				Y	1.70	1.5	0.58	12	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-242-00426-00002	0.27	0.18	0.41	61			Y	Y	1.53	1.5	0.58	16	
	1"	Zo-e-shield 7	WEA-N-242-00388-00001	0.28	0.17	0.33	63			Y	Y	1.59	1.5	0.58	14	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-242-00392-00001	0.24	0.17	0.33	68	Y	Y	Y	Y	1.36	1.5	0.58	19	
	3/4"	Insul Low-E 240	WEA-N-242-00377-00002	0.32	0.17	0.26	57				Y	1.82	1.5	0.58	9	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-242-00385-00002	0.29	0.17	0.26	60				Y	1.65	1.5	0.58	13	
	3/4"	Insul Low-E 340	WEA-N-242-00378-00002	0.31	0.12	0.25	58				Y	1.76	1.5	0.58	7	
3/4"	Insul Low-E 340 w/Argon	WEA-N-242-00386-00002	0.28	0.12	0.25	61			Y	Y	1.59	1.5	0.58	11		
3/4"	Bronze Low E	WEA-N-242-00372-00012	0.32	0.26	0.35	57					1.82	1.5	0.58	14		
3/4"	Bronze Low E w/Argon	WEA-N-242-00380-00012	0.29	0.26	0.35	61					1.65	1.5	0.58	18		
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-242-00371-00003	0.44	0.46	0.48	45					2.50	1.5	0.58	11	
	3/4"	Insul Low-E	WEA-N-242-00372-00003	0.32	0.25	0.42	57					1.82	1.5	0.58	13	
	3/4"	Insul Low E w/Argon	WEA-N-242-00380-00003	0.29	0.25	0.42	61					1.65	1.5	0.58	17	
	3/4"	Passive Solar	WEA-N-242-00375-00003	0.32	0.40	0.46	57					1.82	1.5	0.58	22	
	3/4"	Passive Solar w/Argon	WEA-N-242-00383-00003	0.29	0.40	0.46	60					1.65	1.5	0.58	26	
	3/4"	Passive Solar Extreme	WEA-N-242-00376-00003	0.27	0.37	0.45	44					1.53	1.5	0.58	27	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-242-00384-00003	0.25	0.37	0.45	48	Y				1.42	1.5	0.58	29	
	3/4"	Zo-e-shield 5	WEA-N-242-00373-00003	0.31	0.17	0.38	58				Y	1.76	1.5	0.58	10	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-242-00381-00003	0.28	0.16	0.38	61			Y	Y	1.59	1.5	0.58	13	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-242-00374-00003	0.27	0.16	0.37	45			Y	Y	1.53	1.5	0.58	15	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-242-00382-00003	0.24	0.16	0.37	49	Y	Y	Y	Y	1.36	1.5	0.58	18	
	1"	Zo-e-shield 6	WEA-N-242-00413-00003	0.31	0.17	0.37	58				Y	1.76	1.5	0.58	10	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-242-00421-00003	0.28	0.16	0.37	61			Y	Y	1.59	1.5	0.58	13	
	1"	Zo-e SafeGuard Certified	WEA-N-242-00418-00003	0.30	0.17	0.37	58				Y	1.70	1.5	0.58	11	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-242-00426-00003	0.27	0.16	0.37	61			Y	Y	1.53	1.5	0.58	15	
	1"	Zo-e-shield 7	WEA-N-242-00388-00002	0.28	0.15	0.30	63			Y	Y	1.59	1.5	0.58	13	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-242-00392-00002	0.24	0.15	0.30	68	Y	Y	Y	Y	1.36	1.5	0.58	18	
	3/4"	Insul Low-E 240	WEA-N-242-00377-00003	0.32	0.16	0.23	57				Y	1.82	1.5	0.58	8	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-242-00385-00003	0.29	0.15	0.23	60				Y	1.65	1.5	0.58	11	
	3/4"	Insul Low-E 340	WEA-N-242-00378-00003	0.31	0.11	0.23	58				Y	1.76	1.5	0.58	7	
3/4"	Insul Low-E 340 w/Argon	WEA-N-242-00386-00003	0.28	0.11	0.23	61			Y	Y	1.59	1.5	0.58	10		
3/4"	Bronze Low E	WEA-N-242-00372-00013	0.32	0.24	0.31	57					1.82	1.5	0.58	13		
3/4"	Bronze Low E w/Argon	WEA-N-242-00380-00013	0.29	0.23	0.31	61				Y	1.65	1.5	0.58	16		