



Thermal Performance Data

Premium Wood Casement Windows - Picture/Transom (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			
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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-244-00607-00001	0.45	0.63	0.66	45					2.56	1.5	0.20	20	
	3/4"	Insul Low-E	WEA-N-244-00608-00001	0.31	0.34	0.58	57					1.76	1.5	0.20	21	
	3/4"	Insul Low E w/Argon	WEA-N-244-00616-00001	0.27	0.34	0.58	60					1.53	1.5	0.20	26	
	3/4"	Passive Solar	WEA-N-244-00611-00001	0.32	0.55	0.64	56					1.82	1.5	0.20	32	
	3/4"	Passive Solar w/Argon	WEA-N-244-00619-00001	0.28	0.55	0.64	60					1.59	1.5	0.20	37	Y
	3/4"	Passive Solar Extreme	WEA-N-244-00612-00001	0.26	0.50	0.62	44	Y				1.48	1.5	0.20	36	Y
	3/4"	Passive Solar Extreme w/Argon	WEA-N-244-00620-00001	0.24	0.50	0.62	47	Y				1.36	1.5	0.20	39	Y
	3/4"	Zo-e-shield 5	WEA-N-244-00609-00001	0.30	0.22	0.52	57				Y	1.70	1.5	0.20	15	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-244-00617-00001	0.27	0.22	0.52	61			Y	Y	1.53	1.5	0.20	19	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-244-00610-00001	0.25	0.22	0.51	45		Y	Y	Y	1.42	1.5	0.20	21	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-244-00618-00001	0.23	0.22	0.51	48		Y	Y	Y	1.31	1.5	0.20	24	
	1"	Zo-e-shield 6	WEA-N-244-00697-00001	0.30	0.22	0.51	57				Y	1.70	1.5	0.20	15	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-244-00705-00001	0.26	0.22	0.51	60				Y	1.48	1.5	0.20	20	
	1"	Zo-e SafeGuard Certified	WEA-N-244-00702-00001	0.30	0.22	0.51	57				Y	1.70	1.5	0.20	15	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-244-00710-00001	0.26	0.22	0.51	61				Y	1.48	1.5	0.20	20	
	1"	Zo-e-shield 7	WEA-N-244-00623-00001	0.26	0.21	0.42	63				Y	1.48	1.5	0.20	19	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-244-00627-00001	0.22	0.20	0.42	68	Y	Y	Y	Y	1.25	1.5	0.20	24	
	3/4"	Insul Low-E 240	WEA-N-244-00613-00001	0.31	0.21	0.32	56				Y	1.76	1.5	0.20	13	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-244-00621-00001	0.28	0.20	0.32	60				Y	1.59	1.5	0.20	16	
	3/4"	Insul Low-E 340	WEA-N-244-00614-00001	0.31	0.15	0.31	57				Y	1.76	1.5	0.20	10	
3/4"	Insul Low-E 340 w/Argon	WEA-N-244-00622-00001	0.27	0.15	0.31	60				Y	1.53	1.5	0.20	15		
3/4"	Bronze Low E	WEA-N-244-00608-00011	0.31	0.32	0.44	57					1.76	1.5	0.20	20		
3/4"	Bronze Low E w/Argon	WEA-N-244-00616-00011	0.27	0.32	0.44	60					1.53	1.5	0.20	25		
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-244-00607-00002	0.45	0.56	0.59	45					2.56	1.5	0.20	16	
	3/4"	Insul Low-E	WEA-N-244-00608-00002	0.31	0.30	0.52	57					1.76	1.5	0.20	18	
	3/4"	Insul Low E w/Argon	WEA-N-244-00616-00002	0.27	0.30	0.52	60					1.53	1.5	0.20	23	
	3/4"	Passive Solar	WEA-N-244-00611-00002	0.32	0.50	0.57	56					1.82	1.5	0.20	29	
	3/4"	Passive Solar w/Argon	WEA-N-244-00619-00002	0.28	0.50	0.57	60					1.59	1.5	0.20	34	Y
	3/4"	Passive Solar Extreme	WEA-N-244-00612-00002	0.26	0.45	0.56	44	Y				1.48	1.5	0.20	33	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-244-00620-00002	0.24	0.45	0.56	47	Y				1.36	1.5	0.20	36	Y
	3/4"	Zo-e-shield 5	WEA-N-244-00609-00002	0.30	0.20	0.47	57				Y	1.70	1.5	0.20	14	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-244-00617-00002	0.27	0.20	0.47	61			Y	Y	1.53	1.5	0.20	18	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-244-00610-00002	0.25	0.20	0.46	45		Y	Y	Y	1.42	1.5	0.20	20	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-244-00618-00002	0.23	0.20	0.46	48		Y	Y	Y	1.31	1.5	0.20	22	
	1"	Zo-e-shield 6	WEA-N-244-00697-00002	0.30	0.20	0.46	57				Y	1.70	1.5	0.20	14	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-244-00705-00002	0.26	0.20	0.46	60				Y	1.48	1.5	0.20	19	
	1"	Zo-e SafeGuard Certified	WEA-N-244-00702-00002	0.30	0.20	0.46	57				Y	1.70	1.5	0.20	14	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-244-00710-00002	0.26	0.20	0.46	61				Y	1.48	1.5	0.20	19	
	1"	Zo-e-shield 7	WEA-N-244-00624-00001	0.27	0.19	0.37	63				Y	1.53	1.5	0.20	17	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-244-00628-00001	0.23	0.18	0.37	68		Y	Y	Y	1.31	1.5	0.20	21	
	3/4"	Insul Low-E 240	WEA-N-244-00613-00002	0.31	0.19	0.29	56				Y	1.76	1.5	0.20	12	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-244-00621-00002	0.28	0.19	0.29	60				Y	1.59	1.5	0.20	16	
	3/4"	Insul Low-E 340	WEA-N-244-00614-00002	0.31	0.14	0.28	57				Y	1.76	1.5	0.20	9	
3/4"	Insul Low-E 340 w/Argon	WEA-N-244-00622-00002	0.27	0.13	0.28	60				Y	1.53	1.5	0.20	14		
3/4"	Bronze Low E	WEA-N-244-00608-00012	0.31	0.29	0.39	57					1.76	1.5	0.20	18		
3/4"	Bronze Low E w/Argon	WEA-N-244-00616-00012	0.27	0.29	0.39	60					1.53	1.5	0.20	23		
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-244-00607-00003	0.45	0.50	0.53	45					2.56	1.5	0.20	12	
	3/4"	Insul Low-E	WEA-N-244-00608-00003	0.31	0.27	0.46	57					1.76	1.5	0.20	17	
	3/4"	Insul Low E w/Argon	WEA-N-244-00616-00003	0.27	0.27	0.46	60					1.53	1.5	0.20	22	
	3/4"	Passive Solar	WEA-N-244-00611-00003	0.32	0.44	0.51	56					1.82	1.5	0.20	25	
	3/4"	Passive Solar w/Argon	WEA-N-244-00619-00003	0.28	0.45	0.51	60					1.59	1.5	0.20	31	
	3/4"	Passive Solar Extreme	WEA-N-244-00612-00003	0.26	0.40	0.49	44	Y				1.48	1.5	0.20	30	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-244-00620-00003	0.24	0.41	0.49	47	Y				1.36	1.5	0.20	34	Y
	3/4"	Zo-e-shield 5	WEA-N-244-00609-00003	0.30	0.18	0.41	57				Y	1.70	1.5	0.20	13	
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-244-00617-00003	0.27	0.18	0.41	61			Y	Y	1.53	1.5	0.20	16	
	3/4"	Zo-e-shield 5 Extreme	WEA-N-244-00610-00003	0.25	0.18	0.40	45		Y	Y	Y	1.42	1.5	0.20	19	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-244-00618-00003	0.23	0.18	0.40	48		Y	Y	Y	1.31	1.5	0.20	21	
	1"	Zo-e-shield 6	WEA-N-244-00697-00003	0.30	0.18	0.41	57				Y	1.70	1.5	0.20	13	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-244-00705-00003	0.26	0.18	0.41	60				Y	1.48	1.5	0.20	18	
	1"	Zo-e SafeGuard Certified	WEA-N-244-00702-00003	0.30	0.18	0.41	57				Y	1.70	1.5	0.20	13	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-244-00710-00003	0.26	0.18	0.41	61				Y	1.48	1.5	0.20	18	
	1"	Zo-e-shield 7	WEA-N-244-00624-00002	0.27	0.17	0.33	63				Y	1.53	1.5	0.20	16	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-244-00628-00002	0.23	0.17	0.33	68		Y	Y	Y	1.31	1.5	0.20	21	
	3/4"	Insul Low-E 240	WEA-N-244-00613-00003	0.31	0.17	0.26	56				Y	1.76	1.5	0.20	11	
	3/4"	Insul Low-E 240 w/Argon	WEA-N-244-00621-00003	0.28	0.17	0.26	60				Y	1.59	1.5	0.20	15	
	3/4"	Insul Low-E 340	WEA-N-244-00614-00003	0.31	0.13	0.25	57				Y	1.76	1.5	0.20	9	
3/4"	Insul Low-E 340 w/Argon	WEA-N-244-00622-00003	0.27	0.12	0.25	60				Y	1.53	1.5	0.20	13		
3/4"	Bronze Low E	WEA-N-244-00608-00013	0.31	0.26	0.35	57					1.76	1.5	0.20	16		
3/4"	Bronze Low E w/Argon	WEA-N-244-00616-00013	0.27	0.26	0.35	60					1.53	1.5	0.20	21		