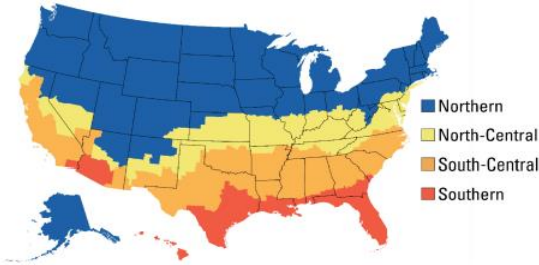


Thermal Performance Data

Premium 2-1/4" Inswing Side Hinge French Door (8511)

WEATHER SHIELD.

WINDOWS & DOORS

US Qualification Criteria	Climate Zone	U-Value	SHGC
 ■ Northern ■ North-Central ■ South-Central ■ Southern	Northern	<=0.26	<=0.40
	North-Central		
	South-Central	<=0.28	<=0.23
	Southern		

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 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 2-1/4" Inswing Side Hinge French Door (8511)													CANADIAN ENERGY PERFORMANCE DATA			
Grille Option	Glazing thickness	aNFRC Total Unit Calculations bGlazing 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	1"	Clear Insul	WEA-N-248-00475-00001	0.43	0.43	0.45	48					2.44	1.5	0.02	11	
	1"	Insul Low-E	WEA-N-248-00476-00001	0.34	0.23	0.39	57					1.93	1.5	0.02	11	
	1"	Insul Low E w/Argon	WEA-N-248-00484-00001	0.32	0.23	0.39	58					1.82	1.5	0.02	13	
	1"	Passive Solar	WEA-N-248-00479-00001	0.35	0.38	0.43	57					1.99	1.5	0.02	18	
	1"	Passive Solar w/Argon	WEA-N-248-00487-00001	0.32	0.38	0.43	58					1.82	1.5	0.02	22	
	1"	Passive Solar Extreme	WEA-N-248-00480-00001	0.30	0.35	0.42	44					1.70	1.5	0.02	23	
	1"	Passive Solar Extreme w/Argon	WEA-N-248-00488-00001	0.29	0.35	0.42	47					1.65	1.5	0.02	24	
	1"	Zo-e-shield 5	WEA-N-248-00477-00001	0.34	0.16	0.36	58					1.93	1.5	0.02	7	
	1"	Zo-e-shield 5 w/ Argon	WEA-N-248-00485-00001	0.31	0.16	0.36	58					1.76	1.5	0.02	11	
	1"	Zo-e-shield 5 Extreme	WEA-N-248-00478-00001	0.30	0.15	0.35	45					1.70	1.5	0.02	11	
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-248-00486-00001	0.28	0.15	0.35	49			Y	Y	1.59	1.5	0.02	14	
	1"	Zo-e-shield 6	WEA-N-248-00541-00001	0.33	0.16	0.35	57					1.87	1.5	0.02	8	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-248-00549-00001	0.31	0.16	0.35	58					1.76	1.5	0.02	11	
	1"	Zo-e SafeGuard Certified	WEA-N-248-00546-00001	0.33	0.16	0.35	57					1.87	1.5	0.02	8	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-248-00554-00001	0.31	0.15	0.35	58					1.76	1.5	0.02	10	
	1"	Zo-e-shield 7	WEA-N-248-00491-00001	0.29	0.15	0.28	58					1.65	1.5	0.02	12	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-248-00495-00001	0.26	0.14	0.28	58	Y	Y	Y	Y	1.48	1.5	0.02	16	
	1"	Insul Low-E 240	WEA-N-248-00481-00001	0.35	0.15	0.22	57					1.99	1.5	0.02	5	
	1"	Insul Low-E 240 w/Argon	WEA-N-248-00489-00001	0.32	0.15	0.22	58					1.82	1.5	0.02	9	
	1"	Insul Low-E 340	WEA-N-248-00482-00001	0.34	0.11	0.21	58					1.93	1.5	0.02	4	
Less Than 1" GIA or SDL	1"	Insul Low-E 340 w/Argon	WEA-N-248-00490-00001	0.32	0.11	0.21	58					1.82	1.5	0.02	6	
	1"	Bronze Low E	WEA-N-248-00476-00011	0.34	0.22	0.30	57					1.93	1.5	0.02	10	
	1"	Bronze Low E w/Argon	WEA-N-248-00484-00011	0.32	0.22	0.30	58					1.82	1.5	0.02	13	
	1"	Clear Insul	WEA-N-248-00475-00002	0.43	0.37	0.38	48					2.44	1.5	0.02	8	
	1"	Insul Low-E	WEA-N-248-00476-00002	0.34	0.20	0.34	57					1.93	1.5	0.02	9	
	1"	Insul Low E w/Argon	WEA-N-248-00484-00002	0.32	0.20	0.34	58					1.82	1.5	0.02	12	
	1"	Passive Solar	WEA-N-248-00479-00002	0.35	0.33	0.37	57					1.99	1.5	0.02	15	
	1"	Passive Solar w/Argon	WEA-N-248-00487-00002	0.32	0.33	0.37	58					1.82	1.5	0.02	19	
	1"	Passive Solar Extreme	WEA-N-248-00480-00002	0.30	0.30	0.36	44					1.70	1.5	0.02	20	
	1"	Passive Solar Extreme w/Argon	WEA-N-248-00488-00002	0.29	0.30	0.36	47					1.65	1.5	0.02	21	
	1"	Zo-e-shield 5	WEA-N-248-00477-00002	0.34	0.14	0.30	58					1.93	1.5	0.02	6	
	1"	Zo-e-shield 5 w/ Argon	WEA-N-248-00485-00002	0.31	0.14	0.30	58					1.76	1.5	0.02	10	
	1"	Zo-e-shield 5 Extreme	WEA-N-248-00478-00002	0.30	0.13	0.29	45					1.70	1.5	0.02	10	
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-248-00486-00002	0.28	0.13	0.29	49			Y	Y	1.59	1.5	0.02	13	
	1"	Zo-e-shield 6	WEA-N-248-00541-00002	0.33	0.14	0.30	57					1.87	1.5	0.02	7	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-248-00549-00002	0.31	0.14	0.30	58					1.76	1.5	0.02	10	
	1"	Zo-e SafeGuard Certified	WEA-N-248-00546-00002	0.33	0.14	0.29	57					1.87	1.5	0.02	7	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-248-00554-00002	0.31	0.13	0.29	58					1.76	1.5	0.02	9	
	1"	Zo-e-shield 7	WEA-N-248-00492-00001	0.29	0.13	0.24	58					1.65	1.5	0.02	11	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-248-00496-00001	0.27	0.13	0.24	58			Y	Y	1.53	1.5	0.02	14	
1" Or Over GIA or SDL	1"	Insul Low-E 240	WEA-N-248-00481-00002	0.35	0.13	0.19	57					1.99	1.5	0.02	4	
	1"	Insul Low-E 240 w/Argon	WEA-N-248-00489-00002	0.32	0.13	0.19	58					1.82	1.5	0.02	8	
	1"	Insul Low-E 340	WEA-N-248-00482-00002	0.34	0.10	0.18	58					1.93	1.5	0.02	3	
	1"	Insul Low-E 340 w/Argon	WEA-N-248-00490-00002	0.32	0.09	0.18	58					1.82	1.5	0.02	5	
	1"	Bronze Low E	WEA-N-248-00476-00012	0.34	0.19	0.25	57					1.93	1.5	0.02	9	
	1"	Bronze Low E w/Argon	WEA-N-248-00484-00012	0.32	0.19	0.25	58					1.82	1.5	0.02	11	
	1"	Clear Insul	WEA-N-248-00475-00003	0.43	0.32	0.32	48					2.44	1.5	0.02	5	
	1"	Insul Low-E	WEA-N-248-00476-00003	0.34	0.17	0.28	57					1.93	1.5	0.02	8	
	1"	Insul Low E w/Argon	WEA-N-248-00484-00003	0.32	0.17	0.28	58					1.82	1.5	0.02	10	
	1"	Passive Solar	WEA-N-248-00479-00003	0.35	0.28	0.31	57					1.99	1.5	0.02	13	
	1"	Passive Solar w/Argon	WEA-N-248-00487-00003	0.32	0.28	0.31	58					1.82	1.5	0.02	16	
	1"	Passive Solar Extreme	WEA-N-248-00480-00003	0.30	0.26	0.30	44					1.70	1.5	0.02	18	
	1"	Passive Solar Extreme w/Argon	WEA-N-248-00488-00003	0.29	0.26	0.30	47					1.65	1.5	0.02	19	
	1"	Zo-e-shield 5	WEA-N-248-00477-00003	0.34	0.12	0.25	58					1.93	1.5	0.02	5	
	1"	Zo-e-shield 5 w/ Argon	WEA-N-248-00485-00003	0.31	0.12	0.25	58					1.76	1.5	0.02	8	
	1"	Zo-e-shield 5 Extreme	WEA-N-248-00478-00003	0.30	0.12	0.25	45					1.70	1.5	0.02	10	
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-248-00486-00003	0.28	0.12	0.25	49			Y	Y	1.59	1.5	0.02	12	
	1"	Zo-e-shield 6	WEA-N-248-00541-00003	0.33	0.12	0.25	57					1.87	1.5	0.02	6	
	1"	Zo-e-shield 6 w/ Argon	WEA-N-248-00549-00003	0.31	0.12	0.25	58					1.76	1.5	0.02	8	
	1"	Zo-e SafeGuard Certified	WEA-N-248-00546-00003	0.33	0.12	0.25	57					1.87	1.5	0.02	6	
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-248-00554-00003	0.31	0.12	0.25	58					1.76	1.5	0.02	8	
	1"	Zo-e-shield 7	WEA-N-248-00492-00002	0.29	0.11	0.20	58					1.65	1.5	0.02	10	
	1"	Zo-e-shield 7 w/ Argon	WEA-N-248-00496-00002	0.27	0.11	0.20	58			Y	Y	1.53	1.5	0.02	13	
	1"	Insul Low-E 240	WEA-N-248-00481-00003	0.35	0.11	0.16	57					1.99	1.5	0.02	3	
	1"	Insul Low-E 240 w/Argon	WEA-N-248-00489-00003	0.32	0.11	0.16	58					1.82	1.5	0.02	6	
	1"	Insul Low-E 340	WEA-N-248-00482-00003	0.34	0.08	0.15	58					1.93	1.5	0.02	2	
	1"	Insul Low-E 340 w/Argon	WEA-N-248-00490-00003	0.32	0.08	0.15	58					1.82	1.5	0.02	5	
	1"	Bronze Low E	WEA-N-248-00476-00013	0.34	0.17	0.21	57					1.93	1.5	0.02	8	
	1"	Bronze Low E w/Argon	WEA-N-248-00484-00013	0.32	0.17	0.21	58					1.82	1.5	0.02	10	