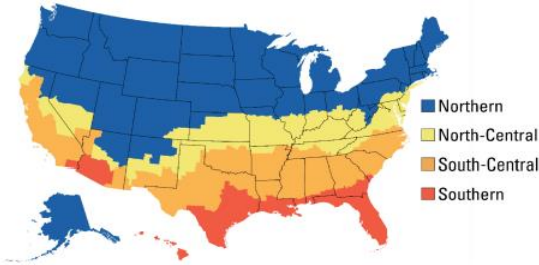


Thermal Performance Data

Premium 2-1/4" Outswing Side Hinge French Door (8611)

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
 Energy Star Version 5.0 starting January 2020	<=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 2-1/4" Outswing Side Hinge French Door (8611)													CANADIAN ENERGY PERFORMANCE DATA				
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				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-249-00455-00001	0.43	0.44	0.45	45					2.44	1.5	0.15	12		
	1"	Insul Low-E	WEA-N-249-00456-00001	0.34	0.24	0.39	57					1.93	1.5	0.15	11		
	1"	Insul Low E w/Argon	WEA-N-249-00464-00001	0.31	0.24	0.39	60					1.76	1.5	0.15	15		
	1"	Passive Solar	WEA-N-249-00459-00001	0.34	0.39	0.43	57					1.93	1.5	0.15	20		
	1"	Passive Solar w/Argon	WEA-N-249-00467-00001	0.32	0.39	0.43	60					1.82	1.5	0.15	22		
	1"	Passive Solar Extreme	WEA-N-249-00460-00001	0.30	0.35	0.42	44					1.70	1.5	0.15	23		
	1"	Passive Solar Extreme w/Argon	WEA-N-249-00468-00001	0.28	0.35	0.42	47					1.59	1.5	0.15	25		
	1"	Zo-e-shield 5	WEA-N-249-00457-00001	0.33	0.16	0.36	57					1.87	1.5	0.15	8		
	1"	Zo-e-shield 5 w/ Argon	WEA-N-249-00465-00001	0.31	0.16	0.36	61					1.76	1.5	0.15	10		
	1"	Zo-e-shield 5 Extreme	WEA-N-249-00458-00001	0.29	0.16	0.35	45					1.65	1.5	0.15	13		
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-249-00466-00001	0.27	0.15	0.35	49			Y	Y	1.53	1.5	0.15	15		
	1"	Zo-e-shield 6	WEA-N-249-00521-00001	0.33	0.16	0.35	57					1.87	1.5	0.15	8		
	1"	Zo-e-shield 6 w/ Argon	WEA-N-249-00529-00001	0.30	0.16	0.35	60					1.70	1.5	0.15	12		
	1"	Zo-e SafeGuard Certified	WEA-N-249-00526-00001	0.32	0.16	0.35	57					1.82	1.5	0.15	9		
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-249-00534-00001	0.30	0.16	0.35	60					1.70	1.5	0.15	12		
	1"	Zo-e-shield 7	WEA-N-249-00471-00001	0.28	0.15	0.28	65			Y	Y	1.59	1.5	0.15	14		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-249-00475-00001	0.25	0.15	0.28	65	Y	Y	Y	Y	1.42	1.5	0.15	17		
	1"	Insul Low-E 240	WEA-N-249-00461-00001	0.34	0.15	0.22	57					1.93	1.5	0.15	6		
	1"	Insul Low-E 240 w/Argon	WEA-N-249-00469-00001	0.31	0.15	0.22	60					1.76	1.5	0.15	10		
	1"	Insul Low-E 340	WEA-N-249-00462-00001	0.33	0.11	0.21	57					1.87	1.5	0.15	5		
Less Than 1" GIA or SDL	1"	Insul Low-E 340 w/Argon	WEA-N-249-00470-00001	0.31	0.11	0.21	61					1.76	1.5	0.15	8		
	1"	Bronze Low E	WEA-N-249-00456-00011	0.34	0.22	0.30	57					1.93	1.5	0.15	10		
	1"	Bronze Low E w/Argon	WEA-N-249-00464-00011	0.31	0.22	0.30	60					1.76	1.5	0.15	14		
	1"	Clear Insul	WEA-N-249-00455-00002	0.43	0.37	0.38	45					2.44	1.5	0.15	8		
	1"	Insul Low-E	WEA-N-249-00456-00002	0.34	0.21	0.34	57					1.93	1.5	0.15	10		
	1"	Insul Low E w/Argon	WEA-N-249-00464-00002	0.31	0.20	0.34	60					1.76	1.5	0.15	13		
	1"	Passive Solar	WEA-N-249-00459-00002	0.34	0.33	0.37	57					1.93	1.5	0.15	16		
	1"	Passive Solar w/Argon	WEA-N-249-00467-00002	0.32	0.33	0.37	60					1.82	1.5	0.15	19		
	1"	Passive Solar Extreme	WEA-N-249-00460-00002	0.30	0.30	0.36	44					1.70	1.5	0.15	20		
	1"	Passive Solar Extreme w/Argon	WEA-N-249-00468-00002	0.28	0.30	0.36	47					1.59	1.5	0.15	22		
	1"	Zo-e-shield 5	WEA-N-249-00457-00002	0.33	0.14	0.30	57					1.87	1.5	0.15	7		
	1"	Zo-e-shield 5 w/ Argon	WEA-N-249-00465-00002	0.31	0.14	0.30	61					1.76	1.5	0.15	9		
	1"	Zo-e-shield 5 Extreme	WEA-N-249-00458-00002	0.29	0.14	0.30	45					1.65	1.5	0.15	12		
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-249-00466-00002	0.27	0.14	0.30	49			Y	Y	1.53	1.5	0.15	14		
	1"	Zo-e-shield 6	WEA-N-249-00521-00002	0.33	0.14	0.30	57					1.87	1.5	0.15	7		
	1"	Zo-e-shield 6 w/ Argon	WEA-N-249-00529-00002	0.30	0.14	0.30	60					1.70	1.5	0.15	11		
	1"	Zo-e SafeGuard Certified	WEA-N-249-00526-00002	0.32	0.14	0.29	57					1.82	1.5	0.15	8		
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-249-00534-00002	0.30	0.14	0.29	60					1.70	1.5	0.15	11		
	1"	Zo-e-shield 7	WEA-N-249-00472-00001	0.28	0.13	0.24	65			Y	Y	1.59	1.5	0.15	12		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-249-00476-00001	0.26	0.13	0.24	65	Y	Y	Y	Y	1.48	1.5	0.15	15		
1" Or Over GIA or SDL	1"	Insul Low-E 240	WEA-N-249-00461-00002	0.34	0.13	0.19	57					1.93	1.5	0.15	5		
	1"	Insul Low-E 240 w/Argon	WEA-N-249-00469-00002	0.31	0.13	0.19	60					1.76	1.5	0.15	9		
	1"	Insul Low-E 340	WEA-N-249-00462-00002	0.33	0.10	0.18	57					1.87	1.5	0.15	5		
	1"	Insul Low-E 340 w/Argon	WEA-N-249-00470-00002	0.31	0.10	0.18	61					1.76	1.5	0.15	7		
	1"	Bronze Low E	WEA-N-249-00456-00012	0.34	0.20	0.25	57					1.93	1.5	0.15	9		
	1"	Bronze Low E w/Argon	WEA-N-249-00464-00012	0.31	0.19	0.25	60					1.76	1.5	0.15	12		
	1"	Clear Insul	WEA-N-249-00455-00003	0.43	0.32	0.32	45					2.44	1.5	0.15	5		
	1"	Insul Low-E	WEA-N-249-00456-00003	0.34	0.18	0.28	57					1.93	1.5	0.15	8		
	1"	Insul Low E w/Argon	WEA-N-249-00464-00003	0.31	0.18	0.28	60					1.76	1.5	0.15	12		
	1"	Passive Solar	WEA-N-249-00459-00003	0.34	0.28	0.31	57					1.93	1.5	0.15	14		
	1"	Passive Solar w/Argon	WEA-N-249-00467-00003	0.32	0.28	0.31	60					1.82	1.5	0.15	16		
	1"	Passive Solar Extreme	WEA-N-249-00460-00003	0.30	0.26	0.30	44					1.70	1.5	0.15	17		
	1"	Passive Solar Extreme w/Argon	WEA-N-249-00468-00003	0.28	0.26	0.30	47					1.59	1.5	0.15	20		
	1"	Zo-e-shield 5	WEA-N-249-00457-00003	0.33	0.12	0.25	57					1.87	1.5	0.15	6		
	1"	Zo-e-shield 5 w/ Argon	WEA-N-249-00465-00003	0.31	0.12	0.25	61					1.76	1.5	0.15	8		
	1"	Zo-e-shield 5 Extreme	WEA-N-249-00458-00003	0.29	0.12	0.25	45					1.65	1.5	0.15	11		
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-249-00466-00003	0.27	0.12	0.25	49			Y	Y	1.53	1.5	0.15	13		
	1"	Zo-e-shield 6	WEA-N-249-00521-00003	0.33	0.12	0.25	57					1.87	1.5	0.15	6		
	1"	Zo-e-shield 6 w/ Argon	WEA-N-249-00529-00003	0.30	0.12	0.25	60					1.70	1.5	0.15	9		
	1"	Zo-e SafeGuard Certified	WEA-N-249-00526-00003	0.32	0.12	0.25	57					1.82	1.5	0.15	7		
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-249-00534-00003	0.30	0.12	0.25	60					1.70	1.5	0.15	9		
	1"	Zo-e-shield 7	WEA-N-249-00472-00002	0.28	0.11	0.20	65			Y	Y	1.59	1.5	0.15	11		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-249-00476-00002	0.26	0.11	0.20	65	Y	Y	Y	Y	1.48	1.5	0.15	14		
	1"	Insul Low-E 240	WEA-N-249-00461-00003	0.34	0.11	0.16	57					1.93	1.5	0.15	4		
	1"	Insul Low-E 240 w/Argon	WEA-N-249-00469-00003	0.31	0.11	0.16	60					1.76	1.5	0.15	8		
	1"	Insul Low-E 340	WEA-N-249-00462-00003	0.33	0.09	0.15	57					1.87	1.5	0.15	4		
	1"	Insul Low-E 340 w/Argon	WEA-N-249-00470-00003	0.31	0.08	0.15	61					1.76	1.5	0.15	6		
	1"	Bronze Low E	WEA-N-249-00456-00013	0.34	0.17	0.21	57					1.93	1.5	0.15	7		
	1"	Bronze Low E w/Argon	WEA-N-249-00464-00013	0.31	0.17	0.21	60					1.76	1.5	0.15	11		