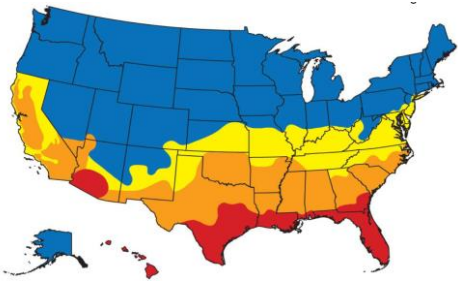
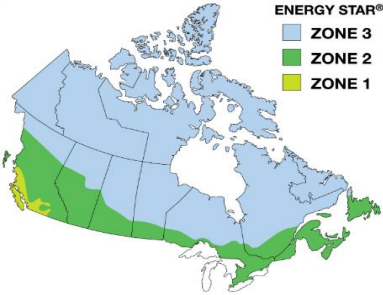


Thermal Performance Data

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

WEATHER SHIELD.
WINDOWS & DOORS

US Qualification Criteria	Climate Zone	U-Value	SHGC
 <p>As of January 2016</p>	Northern	<=0.30	<=0.40
	North-Central		<=0.25
	South-Central		
	Southern		

Canadian Qualification Criteria	Climate Zone	U-Value	or	Energy Rating
 <p>As of February 2015</p>	Zone 1	<=1.60		>=25
	Zone 2	<=1.40		>=29
	Zone 3	<=1.20		>=34

Air Leakage <= 0.3 cfm/ft2

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/3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA												CANADIAN ENERGY PERFORMANCE DATA						
Premium 2-1/4" Inswing Side Hinge French Door (8511)								US ENERGY STAR V 6.0								CANADA ENERGY STAR v 4.1		
Grille Option	Glazing thickness	a)NFRG Total Unit Calculations b)Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating					U-Value (metric)	Maximum Air Leakage Ls/m2	Air Infiltration/Exfiltration Average	Energy Rating			
								N	NC	SC	S					1	2	3
No GIA or SDL	1"	Clear Insul	WEA-N-248-00397-00001	0.41	0.41	0.42	44					2.33	0.6	0.20	12			
	1"	Insul Low-E	WEA-N-248-00398-00001	0.32	0.21	0.36	55					1.82	0.6	0.20	12			
	1"	Insul Low E w/Argon	WEA-N-248-00404-00001	0.30	0.20	0.36	59	Y	Y	Y	Y	1.70	0.6	0.20	14			
	1"	Passive Solar	WEA-N-248-00287-00001	0.33	0.31	0.35	46					1.87	0.6	0.20	17			
	1"	Passive Solar w/Argon	WEA-N-248-00308-00001	0.30	0.31	0.35	52	Y	Y			1.70	0.6	0.20	20			
	1"	Zo-e-shield 5	WEA-N-248-00399-00001	0.32	0.15	0.32	55					1.82	0.6	0.20	8			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-248-00405-00001	0.30	0.15	0.32	59	Y	Y	Y	Y	1.70	0.6	0.20	11			
	1"	Zo-e-shield 5 Extreme	WEA-N-248-00254-00001	0.28	0.13	0.28	48	Y	Y	Y	Y	1.59	0.6	0.20	12			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-248-00272-00001	0.27	0.13	0.28	51	Y	Y	Y	Y	1.53	0.6	0.20	14			
	1"	Zo-e-shield 6	WEA-N-248-00257-00001	0.31	0.13	0.28	47					1.76	0.6	0.20	9			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-248-00275-00001	0.29	0.13	0.28	47	Y	Y	Y	Y	1.65	0.6	0.20	11			
	1"	Zo-e SafeGuard Certified	WEA-N-248-00261-00001	0.31	0.13	0.28	54					1.76	0.6	0.20	9			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-248-00279-00001	0.29	0.13	0.28	55	Y	Y	Y	Y	1.65	0.6	0.20	11			
	1"	Insul Low-E 240	WEA-N-248-00294-00001	0.33	0.12	0.18	52					1.87	0.6	0.20	6			
	1"	Insul Low-E 240 w/Argon	WEA-N-248-00315-00001	0.30	0.12	0.18	48	Y	Y	Y	Y	1.70	0.6	0.20	9			
Less Than 1" GIA or SDL	1"	Clear Insul	WEA-N-248-00397-00002	0.41	0.35	0.36	44					2.33	0.6	0.20	9			
	1"	Insul Low-E	WEA-N-248-00398-00002	0.32	0.18	0.31	55					1.82	0.6	0.20	10			
	1"	Insul Low E w/Argon	WEA-N-248-00404-00002	0.30	0.18	0.31	59	Y	Y	Y	Y	1.70	0.6	0.20	13			
	1"	Passive Solar	WEA-N-248-00287-00002	0.33	0.36	0.41	46					1.87	0.6	0.20	19			
	1"	Passive Solar w/Argon	WEA-N-248-00308-00002	0.30	0.36	0.41	52	Y	Y			1.70	0.6	0.20	23			
	1"	Zo-e-shield 5	WEA-N-248-00399-00002	0.32	0.13	0.27	55					1.82	0.6	0.20	7			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-248-00405-00002	0.30	0.13	0.27	59	Y	Y	Y	Y	1.70	0.6	0.20	10			
	1"	Zo-e-shield 5 Extreme	WEA-N-248-00254-00002	0.28	0.15	0.33	48	Y	Y	Y	Y	1.59	0.6	0.20	13			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-248-00272-00002	0.27	0.14	0.33	51	Y	Y	Y	Y	1.53	0.6	0.20	14			
	1"	Zo-e-shield 6	WEA-N-248-00257-00002	0.31	0.15	0.33	47					1.76	0.6	0.20	10			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-248-00275-00002	0.29	0.15	0.33	47	Y	Y	Y	Y	1.65	0.6	0.20	12			
	1"	Zo-e SafeGuard Certified	WEA-N-248-00261-00002	0.31	0.15	0.33	54					1.76	0.6	0.20	10			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-248-00279-00002	0.29	0.15	0.33	55	Y	Y	Y	Y	1.65	0.6	0.20	12			
	1"	Insul Low-E 240	WEA-N-248-00294-00002	0.33	0.14	0.21	52					1.87	0.6	0.20	7			
	1"	Insul Low-E 240 w/Argon	WEA-N-248-00315-00002	0.30	0.14	0.21	48	Y	Y	Y	Y	1.70	0.6	0.20	10			
1"	Insul Low-E 340	WEA-N-248-00301-00002	0.32	0.10	0.20	59					1.82	0.6	0.20	6				
1"	Insul Low-E 340 w/Argon	WEA-N-248-00322-00002	0.30	0.10	0.20	56	Y	Y	Y	Y	1.70	0.6	0.20	8				
1"	Bronze Low E	WEA-N-248-00237-00012	0.32	0.21	0.27	43					1.82	0.6	0.20	12				
1"	Bronze Low E w/Argon	WEA-N-248-00244-00012	0.30	0.21	0.27	42	Y	Y	Y	Y	1.70	0.6	0.20	15				
1" Or Over GIA or SDL	1"	Clear Insul	WEA-N-248-00397-00003	0.41	0.30	0.30	44					2.33	0.6	0.20	6			
	1"	Insul Low-E	WEA-N-248-00398-00003	0.32	0.15	0.26	55					1.82	0.6	0.20	8			
	1"	Insul Low E w/Argon	WEA-N-248-00404-00003	0.30	0.15	0.26	59	Y	Y	Y	Y	1.70	0.6	0.20	11			
	1"	Passive Solar	WEA-N-248-00287-00003	0.33	0.31	0.35	46					1.87	0.6	0.20	17			
	1"	Passive Solar w/Argon	WEA-N-248-00308-00003	0.30	0.31	0.35	52	Y	Y			1.70	0.6	0.20	20			
	1"	Zo-e-shield 5	WEA-N-248-00399-00003	0.32	0.11	0.23	55					1.82	0.6	0.20	6			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-248-00405-00003	0.30	0.11	0.23	59	Y	Y	Y	Y	1.70	0.6	0.20	9			
	1"	Zo-e-shield 5 Extreme	WEA-N-248-00254-00003	0.28	0.13	0.28	48	Y	Y	Y	Y	1.59	0.6	0.20	12			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-248-00272-00003	0.27	0.13	0.28	51	Y	Y	Y	Y	1.53	0.6	0.20	14			
	1"	Zo-e-shield 6	WEA-N-248-00257-00003	0.31	0.13	0.28	47					1.76	0.6	0.20	9			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-248-00275-00003	0.29	0.13	0.28	47	Y	Y	Y	Y	1.65	0.6	0.20	11			
	1"	Zo-e SafeGuard Certified	WEA-N-248-00261-00003	0.31	0.13	0.28	54					1.76	0.6	0.20	9			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-248-00279-00003	0.29	0.13	0.28	55	Y	Y	Y	Y	1.65	0.6	0.20	11			
	1"	Insul Low-E 240	WEA-N-248-00294-00003	0.33	0.12	0.17	52					1.87	0.6	0.20	6			
	1"	Insul Low-E 240 w/Argon	WEA-N-248-00315-00003	0.30	0.12	0.17	48	Y	Y	Y	Y	1.70	0.6	0.20	9			
1"	Insul Low-E 340	WEA-N-248-00301-00003	0.32	0.09	0.17	59					1.82	0.6	0.20	5				
1"	Insul Low-E 340 w/Argon	WEA-N-248-00322-00003	0.30	0.09	0.17	56	Y	Y	Y	Y	1.70	0.6	0.20	8				
1"	Bronze Low E	WEA-N-248-00237-00013	0.32	0.18	0.23	43					1.82	0.6	0.20	10				
1"	Bronze Low E w/Argon	WEA-N-248-00244-00013	0.30	0.18	0.23	42	Y	Y	Y	Y	1.70	0.6	0.20	13				