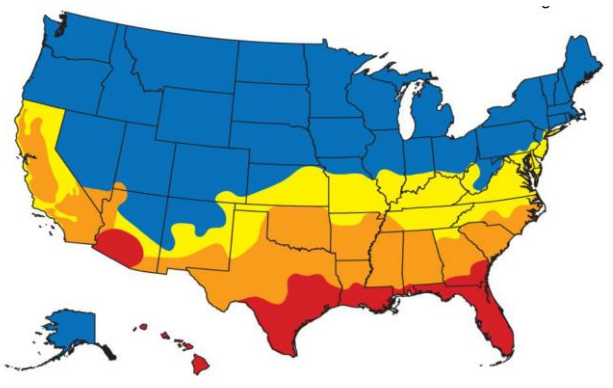
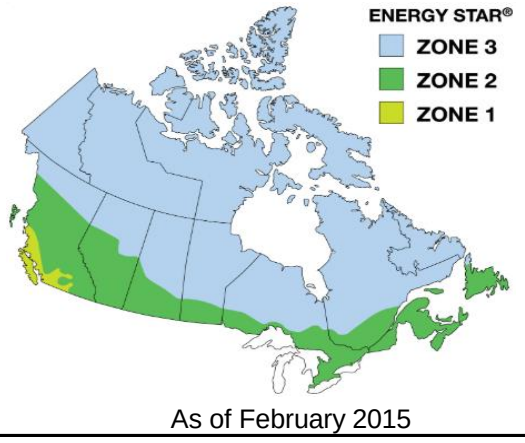
Thermal Performance Data

Contemporary Outswing Side Hinge French Door (8617)

WEATHER SHIELD.
WINDOWS & DOORS

US Qualification Criteria	Climate Zone	U-Value	SHGC
	Northern	<=0.30	<=0.40
	North-Central		
	South-Central		<=0.25
	Southern		

As of January 2016

Canadian Qualification Criteria	Climate Zone	U-Value	or	Energy Rating
	Zone 1	<=1.60		>=25
	Zone 2	<=1.40		>=29
	Zone 3	<=1.20		>=34

Air Leakage <= 0.3 cfm/ft2

As of February 2015

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 resist- ance 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.

Revised 11/4/21

ENERGY PERFORMANCE DATA

Contemporary Outswing Side Hinge French Door (8617)

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 6.0				CANADIAN ENERGY PEFORMANCE DATA				CANADA ENERGY STAR v 4.1		
								N	NC	SC	S	U-Value (metric)	Maximum Air Leakage L/s/m2	Air Infiltration/ Exfiltration Average	Energy Rating	1	2	3
No GIA or SDL	1"	Clear Insul	WEA-N-309-00227-00001	0.45	0.54	0.57	43					2.56	0.6	0.06	15			
	1"	Insul Low-E	WEA-N-309-00228-00001	0.34	0.29	0.50	55					1.93	0.6	0.06	14			
	1"	Insul Low E w/Argon	WEA-N-309-00240-00001	0.31	0.29	0.50	58					1.76	0.6	0.06	18			
	1"	Passive Solar	WEA-N-309-00231-00001	0.35	0.48	0.55	55					1.99	0.6	0.06	24			
	1"	Passive Solar w/Argon	WEA-N-309-00243-00001	0.32	0.48	0.55	58					1.82	0.6	0.06	28	Y		
	1"	Passive Solar Extreme	WEA-N-309-00232-00001	0.29	0.44	0.53	43	Y				1.65	0.6	0.06	29	Y	Y	
	1"	Passive Solar Extreme w/Argon	WEA-N-309-00244-00001	0.27	0.44	0.53	46	Y				1.53	0.6	0.06	32	Y	Y	
	1"	Zo-e-shield 5	WEA-N-309-00229-00001	0.34	0.20	0.45	55				Y	1.93	0.6	0.06	9			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-309-00241-00001	0.31	0.19	0.45	59				Y	1.76	0.6	0.06	12			
	1"	Zo-e-shield 5 Extreme	WEA-N-309-00230-00001	0.29	0.19	0.44	44		Y	Y	Y	1.65	0.6	0.06	15			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-309-00242-00001	0.27	0.19	0.44	47	Y	Y	Y	Y	1.53	0.6	0.06	17	Y		
	1"	Zo-e-shield 6	WEA-N-309-00309-00001	0.33	0.20	0.44	55				Y	1.87	0.6	0.06	10			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-309-00317-00001	0.30	0.19	0.44	58		Y	Y	Y	1.70	0.6	0.06	14			
	1"	Zo-e SafeGuard Certified	WEA-N-309-00314-00001	0.33	0.19	0.44	55				Y	1.87	0.6	0.06	10			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-309-00322-00001	0.30	0.19	0.44	58		Y	Y	Y	1.70	0.6	0.06	14			
	1"	Zo-e-shield 7	WEA-N-309-00235-00001	0.28	0.18	0.36	62		Y	Y	Y	1.59	0.6	0.06	15			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-309-00247-00001	0.25	0.18	0.36	65	Y	Y	Y	Y	1.42	0.6	0.06	19	Y		
	1"	Insul Low-E 240	WEA-N-309-00233-00001	0.35	0.18	0.28	55				Y	1.99	0.6	0.06	7			
	1"	Insul Low-E 240 w/Argon	WEA-N-309-00245-00001	0.31	0.18	0.28	58				Y	1.76	0.6	0.06	12			
	1"	Insul Low-E 340	WEA-N-309-00234-00001	0.34	0.13	0.27	55				Y	1.93	0.6	0.06	5			
	1"	Insul Low-E 340 w/Argon	WEA-N-309-00246-00001	0.31	0.13	0.27	59				Y	1.76	0.6	0.06	9			
	1"	Bronze Low E	WEA-N-309-00228-00011	0.34	0.28	0.37	55					1.93	0.6	0.06	14			
	1"	Bronze Low E w/Argon	WEA-N-309-00240-00011	0.31	0.28	0.37	58					1.76	0.6	0.06	18			
Less Than 1" GIA or SDL	1"	Clear Insul	WEA-N-309-00227-00002	0.45	0.47	0.49	43					2.56	0.6	0.06	11			
	1"	Insul Low-E	WEA-N-309-00228-00002	0.34	0.26	0.43	55					1.93	0.6	0.06	13			
	1"	Insul Low E w/Argon	WEA-N-309-00240-00002	0.31	0.26	0.43	58					1.76	0.6	0.06	16			
	1"	Passive Solar	WEA-N-309-00231-00002	0.35	0.42	0.47	55					1.99	0.6	0.06	21			
	1"	Passive Solar w/Argon	WEA-N-309-00243-00002	0.32	0.42	0.47	58					1.82	0.6	0.06	24			
	1"	Passive Solar Extreme	WEA-N-309-00232-00002	0.29	0.38	0.46	43	Y	Y			1.65	0.6	0.06	26	Y		
	1"	Passive Solar Extreme w/Argon	WEA-N-309-00244-00002	0.27	0.38	0.46	46	Y	Y			1.53	0.6	0.06	28	Y		
	1"	Zo-e-shield 5	WEA-N-309-00229-00002	0.34	0.17	0.39	55				Y	1.93	0.6	0.06	7			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-309-00241-00002	0.31	0.17	0.39	59				Y	1.76	0.6	0.06	11			
	1"	Zo-e-shield 5 Extreme	WEA-N-309-00230-00002	0.29	0.17	0.38	44		Y	Y	Y	1.65	0.6	0.06	14			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-309-00242-00002	0.27	0.17	0.38	47	Y	Y	Y	Y	1.53	0.6	0.06	16	Y		
	1"	Zo-e-shield 6	WEA-N-309-00309-00002	0.33	0.17	0.38	55				Y	1.87	0.6	0.06	9			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-309-00317-00002	0.30	0.17	0.38	58		Y	Y	Y	1.70	0.6	0.06	12			
	1"	Zo-e SafeGuard Certified	WEA-N-309-00314-00002	0.33	0.17	0.38	55				Y	1.87	0.6	0.06	9			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-309-00322-00002	0.30	0.17	0.38	58		Y	Y	Y	1.70	0.6	0.06	12			
	1"	Zo-e-shield 7	WEA-N-309-00236-00001	0.29	0.16	0.31	62		Y	Y	Y	1.65	0.6	0.06	13			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-309-00248-00001	0.25	0.16	0.31	65	Y	Y	Y	Y	1.42	0.6	0.06	18	Y		
	1"	Insul Low-E 240	WEA-N-309-00233-00002	0.35	0.16	0.24	55				Y	1.99	0.6	0.06	6			
	1"	Insul Low-E 240 w/Argon	WEA-N-309-00245-00002	0.31	0.16	0.24	58				Y	1.76	0.6	0.06	11			
	1"	Insul Low-E 340	WEA-N-309-00234-00002	0.34	0.12	0.23	55				Y	1.93	0.6	0.06	5			
	1"	Insul Low-E 340 w/Argon	WEA-N-309-00246-00002	0.31	0.12	0.23	59				Y	1.76	0.6	0.06	8			
	1"	Bronze Low E	WEA-N-309-00228-00012	0.34	0.24	0.32	55				Y	1.93	0.6	0.06	11			
	1"	Bronze Low E w/Argon	WEA-N-309-00240-00012	0.31	0.24	0.32	58				Y	1.76	0.6	0.06	15			
1" Or Over GIA or SDL	1"	Clear Insul	WEA-N-309-00227-00003	0.45	0.41	0.42	43					2.56	0.6	0.06	7			
	1"	Insul Low-E	WEA-N-309-00228-00003	0.34	0.22	0.37	55				Y	1.93	0.6	0.06	10			
	1"	Insul Low E w/Argon	WEA-N-309-00240-00003	0.31	0.22	0.37	58				Y	1.76	0.6	0.06	14			
	1"	Passive Solar	WEA-N-309-00231-00003	0.35	0.36	0.41	55					1.99	0.6	0.06	17			
	1"	Passive Solar w/Argon	WEA-N-309-00243-00003	0.32	0.36	0.41	58					1.82	0.6	0.06	21			
	1"	Passive Solar Extreme	WEA-N-309-00232-00003	0.29	0.33	0.40	43		Y			1.65	0.6	0.06	23			
	1"	Passive Solar Extreme w/Argon	WEA-N-309-00244-00003	0.27	0.33	0.40	46	Y	Y			1.53	0.6	0.06	25	Y		
	1"	Zo-e-shield 5	WEA-N-309-00229-00003	0.34	0.15	0.33	55				Y	1.93	0.6	0.06	6			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-309-00241-00003	0.31	0.15	0.33	59				Y	1.76	0.6	0.06	10			
	1"	Zo-e-shield 5 Extreme	WEA-N-309-00230-00003	0.29	0.15	0.32	44		Y	Y	Y	1.65	0.6	0.06	12			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-309-00242-00003	0.27	0.15	0.32	47	Y	Y	Y	Y	1.53	0.6	0.06	15			
	1"	Zo-e-shield 6	WEA-N-309-00309-00003	0.33	0.15	0.33	55				Y	1.87	0.6	0.06	8			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-309-00317-00003	0.30	0.15	0.33	58		Y	Y	Y	1.70	0.6	0.06	11			
	1"	Zo-e SafeGuard Certified	WEA-N-309-00314-00003	0.33	0.15	0.32	55				Y	1.87	0.6	0.06	8			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-309-00322-00003	0.30	0.15	0.32	58		Y	Y	Y	1.70	0.6	0.06	11			
	1"	Zo-e-shield 7	WEA-N-309-00236-00002	0.29	0.14	0.26	62		Y	Y	Y	1.65	0.6	0.06	12			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-309-00248-00002	0.25	0.14	0.26	65	Y	Y	Y	Y	1.42	0.6	0.06	17	Y		
	1"	Insul Low-E 240	WEA-N-309-00233-00003	0.35	0.14	0.20	55				Y	1.99	0.6	0.06	4			
	1"	Insul Low-E 240 w/Argon	WEA-N-309-00245-00003	0.31	0.14	0.20	58				Y	1.76	0.6	0.06	9			
	1"	Insul Low-E 340	WEA-N-309-00234-00003	0.34	0.11	0.20	55				Y	1.93	0.6	0.06	4			
	1"	Insul Low-E 340 w/Argon	WEA-N-309-00246-00003	0.31	0.10	0.20	59				Y	1.76	0.6	0.06	7			
	1"	Bronze Low E	WEA-N-309-00228-00013	0.34	0.21	0.27	55				Y	1.93	0.6	0.06	10			
	1"	Bronze Low E w/Argon	WEA-N-309-00240-00013	0.31	0.21	0.27	58				Y	1.76	0.6	0.06	13			