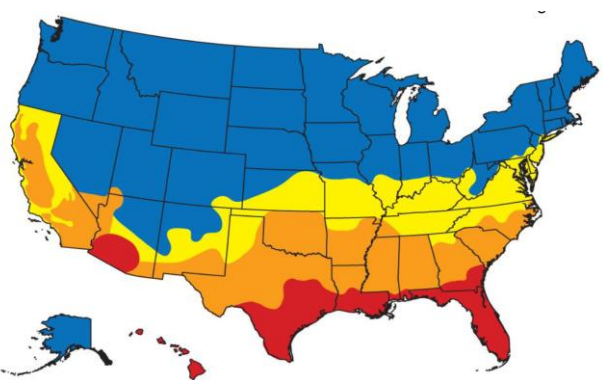


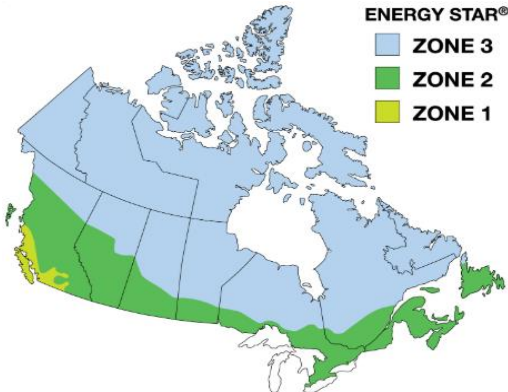
Thermal Performance Data

Contemporary Inswing Side Hinge French Door (8517)

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								ENERGY STAR		CANADIAN ENERGY PERFORMANCE DATA				ENERGY STAR				
Contemporary Inswing Side Hinge French Door (8517)								US ENERGY STAR V 6.0						CANADA ENERGY STAR v 4.1				
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 6.0				U-Value (metric)	Maximum Air Leakage L/s/m2	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 4.1		
								N	NC	SC	S					1	2	3
No GIA or SDL	1"	Clear Insul	WEA-N-298-00251-00001	0.44	0.53	0.56	44					2.50	0.6	0.08	16			
	1"	Insul Low-E	WEA-N-298-00252-00001	0.33	0.29	0.49	56					1.87	0.6	0.08	16			
	1"	Insul Low E w/Argon	WEA-N-298-00264-00001	0.29	0.29	0.49	59		Y			1.65	0.6	0.08	20			
	1"	Passive Solar	WEA-N-298-00255-00001	0.33	0.47	0.54	55					1.87	0.6	0.08	26	Y		
	1"	Passive Solar w/Argon	WEA-N-298-00267-00001	0.30	0.47	0.54	59	Y				1.70	0.6	0.08	30	Y	Y	
	1"	Passive Solar Extreme	WEA-N-298-00256-00001	0.28	0.43	0.53	43	Y				1.59	0.6	0.08	30	Y	Y	
	1"	Passive Solar Extreme w/Argon	WEA-N-298-00268-00001	0.26	0.43	0.53	46	Y				1.48	0.6	0.08	32	Y	Y	
	1"	Zo-e-shield 5	WEA-N-298-00253-00001	0.32	0.19	0.44	56				Y	1.82	0.6	0.08	11			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-298-00265-00001	0.29	0.19	0.44	60		Y	Y	Y	1.65	0.6	0.08	15			
	1"	Zo-e-shield 5 Extreme	WEA-N-298-00254-00001	0.27	0.19	0.43	44	Y	Y	Y	Y	1.53	0.6	0.08	17	Y		
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-298-00266-00001	0.25	0.19	0.43	48	Y	Y	Y	Y	1.42	0.6	0.08	20	Y		
	1"	Zo-e-shield 6	WEA-N-298-00333-00001	0.31	0.19	0.43	55				Y	1.76	0.6	0.08	12			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-298-00340-00001	0.28	0.19	0.43	59		Y	Y	Y	1.59	0.6	0.08	16			
	1"	Zo-e SafeGuard Certified	WEA-N-298-00337-00001	0.31	0.19	0.43	52				Y	1.76	0.6	0.08	12			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-298-00344-00001	0.28	0.19	0.43	59		Y	Y	Y	1.59	0.6	0.08	16			
	1"	Zo-e-shield 7	WEA-N-298-00259-00001	0.26	0.18	0.35	63	Y	Y	Y	Y	1.48	0.6	0.08	18	Y		
	1"	Zo-e-shield 7 w/ Argon	WEA-N-298-00271-00001	0.23	0.17	0.35	67	Y	Y	Y	Y	1.31	0.6	0.08	21	Y	Y	
	1"	Insul Low-E 240	WEA-N-298-00257-00001	0.33	0.18	0.27	55				Y	1.87	0.6	0.08	9			
	1"	Insul Low-E 240 w/Argon	WEA-N-298-00269-00001	0.30	0.18	0.27	59		Y	Y	Y	1.70	0.6	0.08	13			
	1"	Insul Low-E 340	WEA-N-298-00258-00001	0.32	0.13	0.26	56				Y	1.82	0.6	0.08	7			
1"	Insul Low-E 340 w/Argon	WEA-N-298-00270-00001	0.29	0.13	0.26	59		Y	Y	Y	1.65	0.6	0.08	11				
1"	Bronze Low E	WEA-N-298-00252-00011	0.33	0.27	0.36	56					1.87	0.6	0.08	14				
1"	Bronze Low E w/Argon	WEA-N-298-00264-00011	0.29	0.27	0.36	59		Y			1.65	0.6	0.08	19				
Less Than 1" GIA or SDL	1"	Clear Insul	WEA-N-298-00251-00002	0.44	0.47	0.49	44					2.50	0.6	0.08	12			
	1"	Insul Low-E	WEA-N-298-00252-00002	0.33	0.25	0.42	56				Y	1.87	0.6	0.08	13			
	1"	Insul Low E w/Argon	WEA-N-298-00264-00002	0.29	0.25	0.42	59		Y	Y	Y	1.65	0.6	0.08	18			
	1"	Passive Solar	WEA-N-298-00255-00002	0.33	0.41	0.47	55					1.87	0.6	0.08	23			
	1"	Passive Solar w/Argon	WEA-N-298-00267-00002	0.30	0.41	0.47	59					1.70	0.6	0.08	26	Y		
	1"	Passive Solar Extreme	WEA-N-298-00256-00002	0.28	0.38	0.46	43	Y	Y			1.59	0.6	0.08	27	Y		
	1"	Passive Solar Extreme w/Argon	WEA-N-298-00268-00002	0.26	0.38	0.46	46	Y	Y			1.48	0.6	0.08	29	Y	Y	
	1"	Zo-e-shield 5	WEA-N-298-00253-00002	0.32	0.17	0.38	56				Y	1.82	0.6	0.08	10			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-298-00265-00002	0.29	0.17	0.38	60		Y	Y	Y	1.65	0.6	0.08	14			
	1"	Zo-e-shield 5 Extreme	WEA-N-298-00254-00002	0.27	0.16	0.37	44	Y	Y	Y	Y	1.53	0.6	0.08	16			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-298-00266-00002	0.25	0.16	0.37	48	Y	Y	Y	Y	1.42	0.6	0.08	18	Y		
	1"	Zo-e-shield 6	WEA-N-298-00333-00002	0.31	0.17	0.38	55				Y	1.76	0.6	0.08	11			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-298-00340-00002	0.28	0.17	0.38	59		Y	Y	Y	1.59	0.6	0.08	15			
	1"	Zo-e SafeGuard Certified	WEA-N-298-00337-00002	0.31	0.17	0.37	52				Y	1.76	0.6	0.08	11			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-298-00344-00002	0.28	0.17	0.37	59		Y	Y	Y	1.59	0.6	0.08	15			
	1"	Zo-e-shield 7	WEA-N-298-00260-00001	0.27	0.16	0.31	63	Y	Y	Y	Y	1.53	0.6	0.08	16			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-298-00272-00001	0.24	0.15	0.31	67	Y	Y	Y	Y	1.36	0.6	0.08	19	Y		
	1"	Insul Low-E 240	WEA-N-298-00257-00002	0.33	0.16	0.24	55				Y	1.87	0.6	0.08	8			
	1"	Insul Low-E 240 w/Argon	WEA-N-298-00269-00002	0.30	0.16	0.24	59		Y	Y	Y	1.70	0.6	0.08	12			
	1"	Insul Low-E 340	WEA-N-298-00258-00002	0.32	0.11	0.23	56				Y	1.82	0.6	0.08	6			
1"	Insul Low-E 340 w/Argon	WEA-N-298-00270-00002	0.29	0.11	0.23	59		Y	Y	Y	1.65	0.6	0.08	10				
1"	Bronze Low E	WEA-N-298-00252-00012	0.33	0.24	0.31	56				Y	1.87	0.6	0.08	13				
1"	Bronze Low E w/Argon	WEA-N-298-00264-00012	0.29	0.24	0.31	59		Y	Y	Y	1.65	0.6	0.08	18				
1" Or Over GIA or SDL	1"	Clear Insul	WEA-N-298-00251-00003	0.44	0.40	0.42	44					2.50	0.6	0.08	8			
	1"	Insul Low-E	WEA-N-298-00252-00003	0.33	0.22	0.36	56				Y	1.87	0.6	0.08	12			
	1"	Insul Low E w/Argon	WEA-N-298-00264-00003	0.29	0.22	0.36	59		Y	Y	Y	1.65	0.6	0.08	16			
	1"	Passive Solar	WEA-N-298-00255-00003	0.33	0.36	0.40	55					1.87	0.6	0.08	20			
	1"	Passive Solar w/Argon	WEA-N-298-00267-00003	0.30	0.36	0.40	59		Y			1.70	0.6	0.08	23			
	1"	Passive Solar Extreme	WEA-N-298-00256-00003	0.28	0.33	0.39	43	Y	Y			1.59	0.6	0.08	24	Y		
	1"	Passive Solar Extreme w/Argon	WEA-N-298-00268-00003	0.26	0.33	0.39	46	Y	Y			1.48	0.6	0.08	26	Y		
	1"	Zo-e-shield 5	WEA-N-298-00253-00003	0.32	0.15	0.33	56				Y	1.82	0.6	0.08	9			
	1"	Zo-e-shield 5 w/ Argon	WEA-N-298-00265-00003	0.29	0.15	0.33	60		Y	Y	Y	1.65	0.6	0.08	12			
	1"	Zo-e-shield 5 Extreme	WEA-N-298-00254-00003	0.27	0.15	0.32	44	Y	Y	Y	Y	1.53	0.6	0.08	15			
	1"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-298-00266-00003	0.25	0.14	0.32	48	Y	Y	Y	Y	1.42	0.6	0.08	17	Y		
	1"	Zo-e-shield 6	WEA-N-298-00333-00003	0.31	0.15	0.32	55				Y	1.76	0.6	0.08	10			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-298-00340-00003	0.28	0.15	0.32	59		Y	Y	Y	1.59	0.6	0.08	14			
	1"	Zo-e SafeGuard Certified	WEA-N-298-00337-00003	0.31	0.15	0.32	52				Y	1.76	0.6	0.08	10			
	1"	Zo-e SafeGuard Certified w/ Argon	WEA-N-298-00344-00003	0.28	0.15	0.32	59		Y	Y	Y	1.59	0.6	0.08	14			
	1"	Zo-e-shield 7	WEA-N-298-00260-00002	0.27	0.14	0.26	63	Y	Y	Y	Y	1.53	0.6	0.08	14			
	1"	Zo-e-shield 7 w/ Argon	WEA-N-298-00272-00002	0.24	0.14	0.26	67	Y	Y	Y	Y	1.36	0.6	0.08	18	Y		
	1"	Insul Low-E 240	WEA-N-298-00257-00003	0.33	0.14	0.20	55				Y	1.87	0.6	0.08	7			
	1"	Insul Low-E 240 w/Argon	WEA-N-298-00269-00003	0.30	0.14	0.20	59		Y	Y	Y	1.70	0.6	0.08	11			
	1"	Insul Low-E 340	WEA-N-298-00258-00003	0.32	0.10	0.20	56				Y	1.82	0.6	0.08	6			
1"	Insul Low-E 340 w/Argon	WEA-N-298-00270-00003	0.29	0.10	0.20	59		Y	Y	Y	1.65	0.6	0.08	9				
1"	Bronze Low E	WEA-N-298-00252-00013	0.33	0.21	0.27	56				Y	1.87	0.6	0.08	11				
1"	Bronze Low E w/Argon	WEA-N-298-00264-00013	0.29	0.21	0.27	59		Y	Y	Y	1.65	0.6	0.08	16				