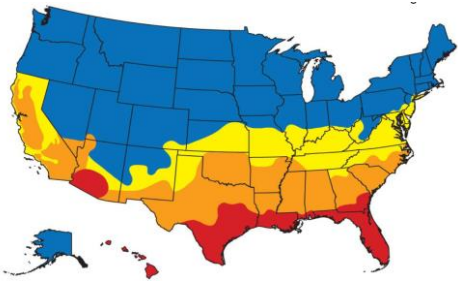
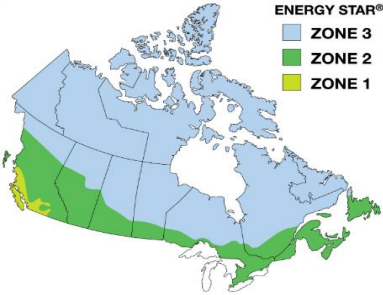


# Thermal Performance Data

Weather Shield Outswing Side Hinge French Door (6610)

**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**.

<sup>a</sup> 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.

<sup>b</sup> Published values reflect 3mm/3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA

Weather Shield Outswing Side Hinge French Door (6610)



US ENERGY STAR V 6.0

CANADIAN ENERGY PERFORMANCE DATA



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	US ENERGY STAR V 6.0				CANADIAN ENERGY PERFORMANCE DATA				CANADA ENERGY STAR v 4.1		
								N	NC	SC	S	U-Value (metric)	Maximum Air Leakage Ls/m2	Air Infiltration/Exfiltration Average	Energy Rating	1	2	3
No GIA or SDL	3/4"	Clear Insul	WEA-N-296-01855-00001	0.43	0.43	0.45	46					2.44	0.6	0.25	11			
	3/4"	Insul Low-E	WEA-N-296-01858-00001	0.33	0.24	0.39	58					1.87	0.6	0.25	12			
	3/4"	Insul Low E w/Argon	WEA-N-296-01872-00001	0.31	0.23	0.39	62					1.76	0.6	0.25	14			
	3/4"	Passive Solar	WEA-N-296-01864-00001	0.34	0.38	0.43	58					1.93	0.6	0.25	19			
	3/4"	Passive Solar w/Argon	WEA-N-296-01878-00001	0.31	0.38	0.43	61					1.76	0.6	0.25	23			
	3/4"	Passive Solar Extreme	WEA-N-296-01865-00001	0.30	0.35	0.42	45	Y	Y			1.70	0.6	0.25	22			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-296-01879-00001	0.28	0.35	0.42	48	Y	Y			1.59	0.6	0.25	25	Y		
	3/4"	Zo-e-shield 5	WEA-N-296-01988-00001	0.33	0.16	0.34	58					1.87	0.6	0.25	8			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-296-01994-00001	0.31	0.16	0.34	61					1.76	0.6	0.25	10			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-296-01868-00001	0.29	0.16	0.34	46	Y	Y	Y	Y	1.65	0.6	0.25	13			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-296-01882-00001	0.28	0.15	0.34	49	Y	Y	Y	Y	1.59	0.6	0.25	13			
	3/4"	Zo-e-shield 6	WEA-N-296-01897-00001	0.33	0.16	0.35	59					1.87	0.6	0.25	8			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-296-01903-00001	0.30	0.16	0.35	62	Y	Y	Y	Y	1.70	0.6	0.25	12			
	3/4"	Zo-e SafeGuard Certified	WEA-N-296-01907-00001	0.33	0.16	0.34	59					1.87	0.6	0.25	8			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-296-01908-00001	0.30	0.15	0.34	62	Y	Y	Y	Y	1.70	0.6	0.25	11			
	3/4"	Insul Low-E 340	WEA-N-296-01867-00001	0.33	0.11	0.21	59					1.87	0.6	0.25	5			
3/4"	Insul Low-E 340 w/Argon	WEA-N-296-01881-00001	0.31	0.11	0.21	62					1.76	0.6	0.25	7				
3/4"	Bronze Low E	WEA-N-296-01859-00001	0.33	0.22	0.29	59					1.87	0.6	0.25	11				
3/4"	Bronze Low E w/Argon	WEA-N-296-01873-00001	0.31	0.22	0.29	62					1.76	0.6	0.25	14				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-296-01855-00002	0.43	0.37	0.38	46					2.44	0.6	0.25	7			
	3/4"	Insul Low-E	WEA-N-296-01858-00002	0.33	0.20	0.33	58					1.87	0.6	0.25	10			
	3/4"	Insul Low E w/Argon	WEA-N-296-01872-00002	0.31	0.20	0.33	62					1.76	0.6	0.25	13			
	3/4"	Passive Solar	WEA-N-296-01864-00002	0.34	0.33	0.37	58					1.93	0.6	0.25	16			
	3/4"	Passive Solar w/Argon	WEA-N-296-01878-00002	0.31	0.33	0.37	61					1.76	0.6	0.25	20			
	3/4"	Passive Solar Extreme	WEA-N-296-01865-00002	0.30	0.30	0.36	45	Y	Y			1.70	0.6	0.25	20			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-296-01879-00002	0.28	0.30	0.36	48	Y	Y			1.59	0.6	0.25	22	Y		
	3/4"	Zo-e-shield 5	WEA-N-296-01988-00002	0.33	0.14	0.29	58					1.87	0.6	0.25	7			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-296-01994-00002	0.31	0.14	0.29	61					1.76	0.6	0.25	9			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-296-01868-00002	0.29	0.14	0.29	46	Y	Y	Y	Y	1.65	0.6	0.25	11			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-296-01882-00002	0.28	0.14	0.29	49	Y	Y	Y	Y	1.59	0.6	0.25	13			
	3/4"	Zo-e-shield 6	WEA-N-296-01897-00002	0.33	0.14	0.29	59					1.87	0.6	0.25	7			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-296-01903-00002	0.30	0.14	0.29	62	Y	Y	Y	Y	1.70	0.6	0.25	10			
	3/4"	Zo-e SafeGuard Certified	WEA-N-296-01907-00002	0.33	0.14	0.29	59					1.87	0.6	0.25	7			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-296-01908-00002	0.30	0.14	0.29	62	Y	Y	Y	Y	1.70	0.6	0.25	10			
	3/4"	Insul Low-E 340	WEA-N-296-01867-00002	0.33	0.10	0.18	59					1.87	0.6	0.25	4			
3/4"	Insul Low-E 340 w/Argon	WEA-N-296-01881-00002	0.31	0.09	0.18	62					1.76	0.6	0.25	6				
3/4"	Bronze Low E	WEA-N-296-01859-00002	0.33	0.19	0.25	59					1.87	0.6	0.25	10				
3/4"	Bronze Low E w/Argon	WEA-N-296-01873-00002	0.31	0.19	0.25	62					1.76	0.6	0.25	12				
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-296-01855-00003	0.43	0.32	0.32	46					2.44	0.6	0.25	5			
	3/4"	Insul Low-E	WEA-N-296-01858-00003	0.33	0.18	0.28	58					1.87	0.6	0.25	9			
	3/4"	Insul Low E w/Argon	WEA-N-296-01872-00003	0.31	0.17	0.28	62					1.76	0.6	0.25	11			
	3/4"	Passive Solar	WEA-N-296-01864-00003	0.34	0.28	0.31	58					1.93	0.6	0.25	13			
	3/4"	Passive Solar w/Argon	WEA-N-296-01878-00003	0.31	0.28	0.31	61					1.76	0.6	0.25	17			
	3/4"	Passive Solar Extreme	WEA-N-296-01865-00003	0.30	0.25	0.30	45	Y	Y	Y	Y	1.70	0.6	0.25	17			
	3/4"	Passive Solar Extreme w/Argon	WEA-N-296-01879-00003	0.28	0.26	0.30	48	Y	Y			1.59	0.6	0.25	20	Y		
	3/4"	Zo-e-shield 5	WEA-N-296-01988-00003	0.33	0.12	0.24	58					1.87	0.6	0.25	5			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-296-01994-00003	0.31	0.12	0.24	61					1.76	0.6	0.25	8			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-296-01868-00003	0.29	0.12	0.25	46	Y	Y	Y	Y	1.65	0.6	0.25	10			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-296-01882-00003	0.28	0.12	0.25	49	Y	Y	Y	Y	1.59	0.6	0.25	12			
	3/4"	Zo-e-shield 6	WEA-N-296-01897-00003	0.33	0.12	0.25	59					1.87	0.6	0.25	5			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-296-01903-00003	0.30	0.12	0.25	62	Y	Y	Y	Y	1.70	0.6	0.25	9			
	3/4"	Zo-e SafeGuard Certified	WEA-N-296-01907-00003	0.33	0.12	0.24	59					1.87	0.6	0.25	5			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-296-01908-00003	0.30	0.12	0.24	62	Y	Y	Y	Y	1.70	0.6	0.25	9			
	3/4"	Insul Low-E 340	WEA-N-296-01867-00003	0.33	0.09	0.15	59					1.87	0.6	0.25	4			
3/4"	Insul Low-E 340 w/Argon	WEA-N-296-01881-00003	0.31	0.08	0.15	62					1.76	0.6	0.25	6				
3/4"	Bronze Low E	WEA-N-296-01859-00003	0.33	0.17	0.21	59					1.87	0.6	0.25	8				
3/4"	Bronze Low E w/Argon	WEA-N-296-01873-00003	0.31	0.17	0.21	62					1.76	0.6	0.25	11				