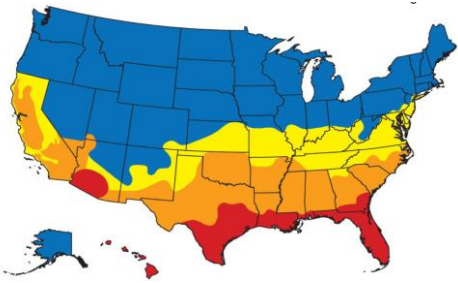
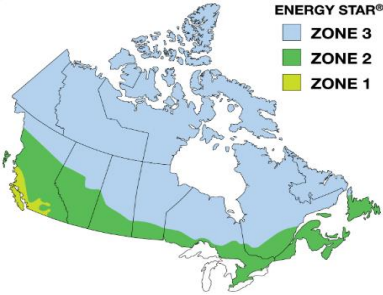


Thermal Performance Data

Weather Shield Casement Windows - Operating (6204)

WEATHER SHIELD.
WINDOWS & DOORS

US Qualification Criteria	Climate Zone	U-Value	SHGC	
 <p>As of January 2016</p>	Northern	<=0.27	Any	Prescriptive
		=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
	North-Central	=0.30	>=0.42	
		<=0.30	<=0.40	
	South-Central	<=0.30	<=0.25	
Southern	<=0.40	<=0.25		

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				
Weather Shield Casement Windows - Operating (6204)														ENERGY STAR				
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				U-Value (metric)	Maximum Air Leakage Ls/m ²	Air Infiltration/Exfiltration Average	Energy Rating	CANADA ENERGY STAR v 4.1		
								N	NC	SC	S					1	2	3
No GIA or SDL	3/4"	Clear Insul	WEA-N-242-00371-00001	0.44	0.56	0.59	45					2.50	0.6	0.58	16			
	3/4"	Insul Low-E	WEA-N-242-00372-00001	0.32	0.30	0.51	57					1.82	0.6	0.58	16			
	3/4"	Insul Low E w/Argon	WEA-N-242-00380-00001	0.29	0.30	0.51	61	Y	Y			1.65	0.6	0.58	20			
	3/4"	Passive Solar	WEA-N-242-00375-00001	0.32	0.49	0.56	57					1.82	0.6	0.58	27	Y		
	3/4"	Passive Solar w/Argon	WEA-N-242-00383-00001	0.29	0.49	0.56	60					1.65	0.6	0.58	31	Y	Y	
	3/4"	Passive Solar Extreme	WEA-N-242-00376-00001	0.27	0.44	0.55	44					1.53	0.6	0.58	31	Y	Y	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-242-00384-00001	0.25	0.45	0.55	48					1.42	0.6	0.58	34	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-242-00373-00001	0.31	0.20	0.46	58					1.76	0.6	0.58	12			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-242-00381-00001	0.28	0.20	0.46	61	Y	Y	Y	Y	1.59	0.6	0.58	16			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-242-00374-00001	0.27	0.19	0.45	45	Y	Y	Y	Y	1.53	0.6	0.58	16	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-242-00382-00001	0.24	0.19	0.45	49	Y	Y	Y	Y	1.36	0.6	0.58	20	Y	Y	
	7/8"	Zo-e-shield 6	WEA-N-242-00413-00001	0.31	0.20	0.45	58					1.76	0.6	0.58	12			
	7/8"	Zo-e-shield 6 w/ Argon	WEA-N-242-00421-00001	0.28	0.19	0.45	61	Y	Y	Y	Y	1.59	0.6	0.58	15			
	7/8"	Zo-e SafeGuard Certified	WEA-N-242-00418-00001	0.30	0.20	0.45	58	Y	Y	Y	Y	1.70	0.6	0.58	13			
	7/8"	Zo-e SafeGuard Certified w/ Argon	WEA-N-242-00426-00001	0.27	0.19	0.45	61	Y	Y	Y	Y	1.53	0.6	0.58	16	Y		
	7/8"	Zo-e-shield 7	WEA-N-242-00387-00001	0.27	0.18	0.37	63	Y	Y	Y	Y	1.53	0.6	0.58	16			
	7/8"	Zo-e-shield 7 w/ Argon	WEA-N-242-00391-00001	0.24	0.18	0.37	68	Y	Y	Y	Y	1.36	0.6	0.58	19	Y		
	3/4"	Insul Low-E 240	WEA-N-242-00377-00001	0.32	0.19	0.28	57					1.82	0.6	0.58	10			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-242-00385-00001	0.29	0.18	0.28	60	Y	Y	Y	Y	1.65	0.6	0.58	13			
	3/4"	Insul Low-E 340	WEA-N-242-00378-00001	0.31	0.13	0.28	58					1.76	0.6	0.58	8			
3/4"	Insul Low-E 340 w/Argon	WEA-N-242-00386-00001	0.28	0.13	0.28	61	Y	Y	Y	Y	1.59	0.6	0.58	12				
3/4"	Bronze Low E	WEA-N-242-00372-00011	0.32	0.28	0.38	57					1.82	0.6	0.58	15				
3/4"	Bronze Low E w/Argon	WEA-N-242-00380-00011	0.29	0.28	0.38	61	Y	Y			1.65	0.6	0.58	19				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-242-00371-00002	0.44	0.51	0.53	45					2.50	0.6	0.58	14			
	3/4"	Insul Low-E	WEA-N-242-00372-00002	0.32	0.27	0.46	57					1.82	0.6	0.58	15			
	3/4"	Insul Low E w/Argon	WEA-N-242-00380-00002	0.29	0.27	0.46	61	Y	Y			1.65	0.6	0.58	18			
	3/4"	Passive Solar	WEA-N-242-00375-00002	0.32	0.44	0.51	57					1.82	0.6	0.58	24			
	3/4"	Passive Solar w/Argon	WEA-N-242-00383-00002	0.29	0.45	0.51	60					1.65	0.6	0.58	29	Y		
	3/4"	Passive Solar Extreme	WEA-N-242-00376-00002	0.27	0.40	0.50	44	Y	Y			1.53	0.6	0.58	28	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-242-00384-00002	0.25	0.41	0.50	48					1.42	0.6	0.58	31	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-242-00373-00002	0.31	0.18	0.42	58					1.76	0.6	0.58	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-242-00381-00002	0.28	0.18	0.42	61	Y	Y	Y	Y	1.59	0.6	0.58	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-242-00374-00002	0.27	0.18	0.41	45	Y	Y	Y	Y	1.53	0.6	0.58	16			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-242-00382-00002	0.24	0.18	0.41	49	Y	Y	Y	Y	1.36	0.6	0.58	19	Y		
	7/8"	Zo-e-shield 6	WEA-N-242-00413-00002	0.31	0.18	0.41	58					1.76	0.6	0.58	11			
	7/8"	Zo-e-shield 6 w/ Argon	WEA-N-242-00421-00002	0.28	0.18	0.41	61	Y	Y	Y	Y	1.59	0.6	0.58	14			
	7/8"	Zo-e SafeGuard Certified	WEA-N-242-00418-00002	0.30	0.18	0.41	58	Y	Y	Y	Y	1.70	0.6	0.58	12			
	7/8"	Zo-e SafeGuard Certified w/ Argon	WEA-N-242-00426-00002	0.27	0.18	0.41	61	Y	Y	Y	Y	1.53	0.6	0.58	16			
	7/8"	Zo-e-shield 7	WEA-N-242-00388-00001	0.28	0.17	0.33	63	Y	Y	Y	Y	1.59	0.6	0.58	14			
	7/8"	Zo-e-shield 7 w/ Argon	WEA-N-242-00392-00001	0.24	0.17	0.33	68	Y	Y	Y	Y	1.36	0.6	0.58	19	Y		
	3/4"	Insul Low-E 240	WEA-N-242-00377-00002	0.32	0.17	0.26	57					1.82	0.6	0.58	9			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-242-00385-00002	0.29	0.17	0.26	60	Y	Y	Y	Y	1.65	0.6	0.58	13			
	3/4"	Insul Low-E 340	WEA-N-242-00378-00002	0.31	0.12	0.25	58					1.76	0.6	0.58	7			
3/4"	Insul Low-E 340 w/Argon	WEA-N-242-00386-00002	0.28	0.12	0.25	61	Y	Y	Y	Y	1.59	0.6	0.58	11				
3/4"	Bronze Low E	WEA-N-242-00372-00012	0.32	0.26	0.35	57					1.82	0.6	0.58	14				
3/4"	Bronze Low E w/Argon	WEA-N-242-00380-00012	0.29	0.26	0.35	61	Y	Y			1.65	0.6	0.58	18				
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-242-00371-00003	0.44	0.46	0.48	45					2.50	0.6	0.58	11			
	3/4"	Insul Low-E	WEA-N-242-00372-00003	0.32	0.25	0.42	57					1.82	0.6	0.58	13			
	3/4"	Insul Low E w/Argon	WEA-N-242-00380-00003	0.29	0.25	0.42	61	Y	Y	Y	Y	1.65	0.6	0.58	17			
	3/4"	Passive Solar	WEA-N-242-00375-00003	0.32	0.40	0.46	57					1.82	0.6	0.58	22			
	3/4"	Passive Solar w/Argon	WEA-N-242-00383-00003	0.29	0.40	0.46	60	Y	Y			1.65	0.6	0.58	26	Y		
	3/4"	Passive Solar Extreme	WEA-N-242-00376-00003	0.27	0.37	0.45	44	Y	Y			1.53	0.6	0.58	27	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-242-00384-00003	0.25	0.37	0.45	48	Y	Y			1.42	0.6	0.58	29	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-242-00373-00003	0.31	0.17	0.38	58					1.76	0.6	0.58	10			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-242-00381-00003	0.28	0.16	0.38	61	Y	Y	Y	Y	1.59	0.6	0.58	13			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-242-00374-00003	0.27	0.16	0.37	45	Y	Y	Y	Y	1.53	0.6	0.58	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-242-00382-00003	0.24	0.16	0.37	49	Y	Y	Y	Y	1.36	0.6	0.58	18	Y		
	7/8"	Zo-e-shield 6	WEA-N-242-00413-00003	0.31	0.17	0.37	58					1.76	0.6	0.58	10			
	7/8"	Zo-e-shield 6 w/ Argon	WEA-N-242-00421-00003	0.28	0.16	0.37	61	Y	Y	Y	Y	1.59	0.6	0.58	13			
	7/8"	Zo-e SafeGuard Certified	WEA-N-242-00418-00003	0.30	0.17	0.37	58	Y	Y	Y	Y	1.70	0.6	0.58	11			
	7/8"	Zo-e SafeGuard Certified w/ Argon	WEA-N-242-00426-00003	0.27	0.16	0.37	61	Y	Y	Y	Y	1.53	0.6	0.58	15			
	7/8"	Zo-e-shield 7	WEA-N-242-00388-00002	0.28	0.15	0.30	63	Y	Y	Y	Y	1.59	0.6	0.58	13			
	7/8"	Zo-e-shield 7 w/ Argon	WEA-N-242-00392-00002	0.24	0.15	0.30	68	Y	Y	Y	Y	1.36	0.6	0.58	18	Y		
	3/4"	Insul Low-E 240	WEA-N-242-00377-00003	0.32	0.16	0.23	57					1.82	0.6	0.58	8			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-242-00385-00003	0.29	0.15	0.23	60	Y	Y	Y	Y	1.65	0.6	0.58	11			
	3/4"	Insul Low-E 340	WEA-N-242-00378-00003	0.31	0.11	0.23	58					1.76	0.6	0.58	7			
3/4"	Insul Low-E 340 w/Argon	WEA-N-242-00386-00003	0.28	0.11	0.23	61	Y	Y	Y	Y	1.59	0.6	0.58	10				
3/4"	Bronze Low E	WEA-N-242-00372-00013	0.32	0.24	0.31	57					1.82	0.6	0.58	13				
3/4"	Bronze Low E w/Argon	WEA-N-242-00380-00013	0.29	0.23	0.31	61	Y	Y	Y	Y	1.65	0.6	0.58	16				