

Thermal Performance Data

Visions 3500 Slider Windows (9408)
(J-channel)



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	
		$= 0.30$	≥ 0.42	
	North-Central	≤ 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/ft ²			

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							
Visions 3500 Slider Windows (9408)														US ENERGY STAR V 6.0								CANADA ENERGY STAR v 4.1	
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					U-Value (metric)	Maximum Air Leakage Ls/m ²	Air Infiltration/Exfiltration Average	Energy Rating								
								N	NC	SC	S					1	2	3					
No GIA or SDL	3/4"	Clear Insul	WEA-N-308-00253-00001	0.46	0.62	0.65	44					2.61	0.6	0.06	19								
	3/4"	Insul Low-E	WEA-N-308-00254-00001	0.32	0.31	0.56	55					1.82	0.6	0.06	18								
	3/4"	Insul Low E w/Argon	WEA-N-308-00260-00001	0.28	0.31	0.56	57		Y			1.59	0.6	0.06	23	Y							
	3/4"	Passive Solar	WEA-N-308-00153-00001	0.32	0.55	0.63	56					1.82	0.6	0.06	32	Y	Y						
	3/4"	Passive Solar w/Argon	WEA-N-308-00165-00001	0.29	0.55	0.63	59	Y				1.65	0.6	0.06	36	Y	Y	Y					
	3/4"	Passive Solar Extreme	WEA-N-308-00154-00001	0.27	0.50	0.62	43	Y				1.53	0.6	0.06	35	Y	Y	Y					
	3/4"	Passive Solar Extreme w/Argon	WEA-N-308-00166-00001	0.24	0.50	0.62	47	Y				1.36	0.6	0.06	39	Y	Y	Y					
	3/4"	Zo-e-shield 5	WEA-N-308-00255-00001	0.32	0.23	0.49	55				Y	1.82	0.6	0.06	13								
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-308-00261-00001	0.28	0.22	0.49	59		Y	Y	Y	1.59	0.6	0.06	18	Y							
	3/4"	Zo-e-shield 5 Extreme	WEA-N-308-00152-00001	0.26	0.22	0.50	44	Y	Y	Y	Y	1.48	0.6	0.06	20	Y							
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-308-00164-00001	0.23	0.22	0.50	48	Y	Y	Y	Y	1.31	0.6	0.06	24	Y	Y						
	3/4"	Zo-e-shield 6	WEA-N-308-00215-00001	0.31	0.22	0.51	58				Y	1.76	0.6	0.06	14								
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-308-00223-00001	0.28	0.22	0.51	62		Y	Y		1.59	0.6	0.06	18	Y							
	3/4"	Zo-e SafeGuard Certified	WEA-N-308-00220-00001	0.31	0.22	0.50	57				Y	1.76	0.6	0.06	14								
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-308-00228-00001	0.28	0.22	0.50	60		Y	Y	Y	1.59	0.6	0.06	18	Y							
	1"	Zo-e-shield 7	WEA-N-308-00157-00001	0.25	0.20	0.41	66	Y	Y	Y	Y	1.42	0.6	0.06	20	Y							
	1"	Zo-e-shield 7 w/ Argon	WEA-N-308-00169-00001	0.21	0.20	0.41	68	Y	Y	Y	Y	1.19	0.6	0.06	25	Y	Y	Y					
	3/4"	Insul Low-E 240	WEA-N-308-00155-00001	0.32	0.21	0.32	56				Y	1.82	0.6	0.06	12								
	3/4"	Insul Low-E 240 w/Argon	WEA-N-308-00167-00001	0.28	0.20	0.32	59		Y	Y	Y	1.59	0.6	0.06	17	Y							
	3/4"	Insul Low-E 340	WEA-N-308-00156-00001	0.31	0.15	0.31	57				Y	1.76	0.6	0.06	10								
3/4"	Insul Low-E 340 w/Argon	WEA-N-308-00168-00001	0.27	0.15	0.31	60	Y	Y	Y	Y	1.53	0.6	0.06	15									
3/4"	Bronze Low E	WEA-N-308-00150-00011	0.32	0.32	0.42	56					1.82	0.6	0.06	19									
3/4"	Bronze Low E w/Argon	WEA-N-308-00162-00011	0.28	0.32	0.42	60	Y	Y			1.59	0.6	0.06	24	Y								
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-308-00253-00002	0.46	0.56	0.58	44					2.61	0.6	0.06	15								
	3/4"	Insul Low-E	WEA-N-308-00254-00002	0.32	0.28	0.50	55					1.82	0.6	0.06	16								
	3/4"	Insul Low E w/Argon	WEA-N-308-00260-00002	0.28	0.28	0.50	57		Y			1.59	0.6	0.06	21	Y							
	3/4"	Passive Solar	WEA-N-308-00153-00002	0.32	0.49	0.56	56					1.82	0.6	0.06	28	Y							
	3/4"	Passive Solar w/Argon	WEA-N-308-00165-00002	0.29	0.49	0.56	59	Y				1.65	0.6	0.06	32	Y	Y						
	3/4"	Passive Solar Extreme	WEA-N-308-00154-00002	0.27	0.45	0.55	43	Y				1.53	0.6	0.06	32	Y	Y						
	3/4"	Passive Solar Extreme w/Argon	WEA-N-308-00166-00002	0.24	0.45	0.55	47	Y				1.36	0.6	0.06	36	Y	Y	Y					
	3/4"	Zo-e-shield 5	WEA-N-308-00255-00002	0.32	0.21	0.44	55				Y	1.82	0.6	0.06	12								
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-308-00261-00002	0.28	0.20	0.44	59		Y	Y	Y	1.59	0.6	0.06	17	Y							
	3/4"	Zo-e-shield 5 Extreme	WEA-N-308-00152-00002	0.26	0.20	0.45	44	Y	Y	Y	Y	1.48	0.6	0.06	19	Y							
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-308-00164-00002	0.23	0.20	0.45	48	Y	Y	Y	Y	1.31	0.6	0.06	23	Y	Y						
	3/4"	Zo-e-shield 6	WEA-N-308-00215-00002	0.31	0.20	0.45	58				Y	1.76	0.6	0.06	13								
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-308-00223-00002	0.28	0.20	0.45	62		Y	Y		1.59	0.6	0.06	17	Y							
	3/4"	Zo-e SafeGuard Certified	WEA-N-308-00220-00002	0.31	0.20	0.45	57				Y	1.76	0.6	0.06	13								
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-308-00228-00002	0.28	0.20	0.45	60		Y	Y	Y	1.59	0.6	0.06	17	Y							
	1"	Zo-e-shield 7	WEA-N-308-00158-00001	0.26	0.19	0.37	66	Y	Y	Y	Y	1.48	0.6	0.06	18	Y							
	1"	Zo-e-shield 7 w/ Argon	WEA-N-308-00170-00001	0.22	0.18	0.37	68	Y	Y	Y	Y	1.25	0.6	0.06	23	Y	Y						
	3/4"	Insul Low-E 240	WEA-N-308-00155-00002	0.32	0.19	0.28	56				Y	1.82	0.6	0.06	11								
	3/4"	Insul Low-E 240 w/Argon	WEA-N-308-00167-00002	0.28	0.18	0.28	59		Y	Y	Y	1.59	0.6	0.06	15								
	3/4"	Insul Low-E 340	WEA-N-308-00156-00002	0.31	0.14	0.28	57				Y	1.76	0.6	0.06	9								
3/4"	Insul Low-E 340 w/Argon	WEA-N-308-00168-00002	0.27	0.13	0.28	60	Y	Y	Y	Y	1.53	0.6	0.06	14									
3/4"	Bronze Low E	WEA-N-308-00150-00012	0.32	0.29	0.38	56					1.82	0.6	0.06	17									
3/4"	Bronze Low E w/Argon	WEA-N-308-00162-00012	0.28	0.28	0.38	60		Y			1.59	0.6	0.06	21	Y								
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-308-00253-00003	0.46	0.50	0.52	44					2.61	0.6	0.06	12								
	3/4"	Insul Low-E	WEA-N-308-00254-00003	0.32	0.25	0.44	55				Y	1.82	0.6	0.06	14								
	3/4"	Insul Low E w/Argon	WEA-N-308-00260-00003	0.28	0.25	0.44	57		Y	Y	Y	1.59	0.6	0.06	20	Y							
	3/4"	Passive Solar	WEA-N-308-00153-00003	0.32	0.44	0.50	56					1.82	0.6	0.06	25	Y							
	3/4"	Passive Solar w/Argon	WEA-N-308-00165-00003	0.29	0.44	0.50	59	Y				1.65	0.6	0.06	29	Y	Y						
	3/4"	Passive Solar Extreme	WEA-N-308-00154-00003	0.27	0.40	0.49	43	Y	Y			1.53	0.6	0.06	29	Y	Y						
	3/4"	Passive Solar Extreme w/Argon	WEA-N-308-00166-00003	0.24	0.40	0.49	47	Y	Y			1.36	0.6	0.06	33	Y	Y						
	3/4"	Zo-e-shield 5	WEA-N-308-00255-00003	0.32	0.19	0.39	55				Y	1.82	0.6	0.06	11								
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-308-00261-00003	0.28	0.18	0.39	59		Y	Y	Y	1.59	0.6	0.06	15								
	3/4"	Zo-e-shield 5 Extreme	WEA-N-308-00152-00003	0.26	0.18	0.40	44	Y	Y	Y	Y	1.48	0.6	0.06	18	Y							
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-308-00164-00003	0.23	0.18	0.40	48	Y	Y	Y	Y	1.31	0.6	0.06	22	Y	Y						
	3/4"	Zo-e-shield 6	WEA-N-308-00215-00003	0.31	0.18	0.40	58				Y	1.76	0.6	0.06	12								
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-308-00223-00003	0.28	0.18	0.40	62		Y	Y	Y	1.59	0.6	0.06	15								
	3/4"	Zo-e SafeGuard Certified	WEA-N-308-00220-00003	0.31	0.18	0.40	57				Y	1.76	0.6	0.06	12								
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-308-00228-00003	0.28	0.18	0.40	60		Y	Y	Y	1.59	0.6	0.06	15								
	1"	Zo-e-shield 7	WEA-N-308-00158-00002	0.26	0.17	0.33	66	Y	Y	Y	Y	1.48	0.6	0.06	17	Y							
	1"	Zo-e-shield 7 w/ Argon	WEA-N-308-00170-00002	0.22	0.17	0.33	68	Y	Y	Y	Y	1.25	0.6	0.06	22	Y	Y						
	3/4"	Insul Low-E 240	WEA-N-308-00155-00003	0.32	0.17	0.25	56				Y	1.82	0.6	0.06	10								
	3/4"	Insul Low-E 240 w/Argon	WEA-N-308-00167-00003	0.28	0.17	0.25	59		Y	Y	Y	1.59	0.6	0.06	15								
	3/4"	Insul Low-E 340	WEA-N-308-00156-00003	0.31	0.13	0.24	57				Y	1.76	0.6	0.06	9								
3/4"	Insul Low-E 340 w/Argon	WEA-N-308-00168-00003	0.27	0.12	0.24	60	Y	Y	Y	Y	1.53	0.6	0.06	13									
3/4"	Bronze Low E	WEA-N-308-00150-00013	0.32	0.26	0.33	56					1.82	0.6	0.06	15									
3/4"	Bronze Low E w/Argon	WEA-N-308-00162-00013	0.28	0.26	0.33	60		Y			1.59	0.6	0.06	20	Y								