

Thermal Performance Data

Visions 3500 Single Hung Picture/Transom Windows (9311)
(J-channel)



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

Canadian Qualification Criteria		Climate Zone	U-Value	or	Energy Rating
 As of February 2015	ENERGY STAR® ZONE 3 ZONE 2 ZONE 1	Zone 1	<=1.60	Air Leakage <= 0.3 cfm/ft²	>=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				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	US ENERGY STAR V 6.0				U-Value (metric)	Maximum Air Leakage Ls/m ²	Air Infiltration/Exfiltration Average	Energy Rating			
									N	NC	SC	S							
No GIA or SDL	3/4"	Clear Insul		WEA-N-306-00557-00001	0.45	0.67	0.70	45					2.56	0.6	0.01	23			
	3/4"	Insul Low-E		WEA-N-306-00560-00001	0.30	0.36	0.61	57		Y			1.70	0.6	0.01	24			
	3/4"	Insul Low E w/Argon		WEA-N-306-00622-00001	0.26	0.36	0.61	60	Y	Y			1.48	0.6	0.01	28	Y		
	3/4"	Passive Solar		WEA-N-306-00566-00001	0.31	0.59	0.68	56					1.76	0.6	0.01	36	Y	Y	
	3/4"	Passive Solar w/Argon		WEA-N-306-00628-00001	0.27	0.59	0.68	60	Y				1.53	0.6	0.01	41	Y	Y	
	3/4"	Zo-e-shield 5		WEA-N-306-00563-00001	0.30	0.24	0.55	57		Y	Y	Y	1.70	0.6	0.01	17			
	3/4"	Zo-e-shield 5 w/ Argon		WEA-N-306-00625-00001	0.26	0.24	0.55	61	Y	Y	Y	Y	1.48	0.6	0.01	21	Y		
	3/4"	Zo-e-shield 5 Extreme		WEA-N-306-00578-00001	0.24	0.23	0.54	44	Y	Y	Y	Y	1.36	0.6	0.01	23	Y	Y	
	3/4"	Zo-e-shield 5 Extreme w/ Argon		WEA-N-306-00640-00001	0.21	0.23	0.54	48	Y	Y	Y	Y	1.19	0.6	0.01	27	Y	Y	
	3/4"	Zo-e-shield 6		WEA-N-306-00601-00001	0.30	0.24	0.54	58		Y	Y	Y	Y	1.70	0.6	0.01	17		
	3/4"	Zo-e-shield 6 w/ Argon		WEA-N-306-00663-00001	0.26	0.23	0.54	61	Y	Y	Y	Y	1.48	0.6	0.01	21	Y		
	3/4"	Zo-e SafeGuard Certified		WEA-N-306-00607-00001	0.30	0.24	0.54	59		Y	Y	Y	Y	1.70	0.6	0.01	17		
	3/4"	Zo-e SafeGuard Certified w/ Argon		WEA-N-306-00669-00001	0.26	0.23	0.54	62	Y	Y	Y	Y	1.48	0.6	0.01	21	Y		
	3/4"	Insul Low-E 240		WEA-N-306-00572-00001	0.31	0.22	0.34	56				Y	1.76	0.6	0.01	14			
	3/4"	Insul Low-E 240 w/Argon		WEA-N-306-00634-00001	0.27	0.22	0.34	60	Y	Y	Y	Y	1.53	0.6	0.01	19	Y		
	3/4"	Insul Low-E 340		WEA-N-306-00575-00001	0.30	0.16	0.33	57		Y	Y	Y	Y	1.70	0.6	0.01	12		
	3/4"	Insul Low-E 340 w/Argon		WEA-N-306-00637-00001	0.26	0.16	0.33	61	Y	Y	Y	Y	1.48	0.6	0.01	17	Y		
	3/4"	Bronze Low E		WEA-N-306-00560-00011	0.30	0.34	0.45	57		Y				1.70	0.6	0.01	22		
	3/4"	Bronze Low E w/Argon		WEA-N-306-00622-00011	0.26	0.34	0.45	60	Y	Y			1.48	0.6	0.01	27	Y		
Less Than 1" GIA or SDL	3/4"	Clear Insul		WEA-N-306-00557-00002	0.45	0.60	0.63	45					2.56	0.6	0.01	19			
	3/4"	Insul Low-E		WEA-N-306-00560-00002	0.30	0.32	0.55	57		Y			1.70	0.6	0.01	21			
	3/4"	Insul Low E w/Argon		WEA-N-306-00622-00002	0.26	0.32	0.55	60	Y	Y			1.48	0.6	0.01	26	Y		
	3/4"	Passive Solar		WEA-N-306-00566-00002	0.31	0.53	0.61	56					1.76	0.6	0.01	32	Y	Y	
	3/4"	Passive Solar w/Argon		WEA-N-306-00628-00002	0.27	0.53	0.61	60	Y				1.53	0.6	0.01	37	Y	Y	
	3/4"	Zo-e-shield 5		WEA-N-306-00563-00002	0.30	0.22	0.50	57		Y	Y	Y	Y	1.70	0.6	0.01	15		
	3/4"	Zo-e-shield 5 w/ Argon		WEA-N-306-00625-00002	0.26	0.21	0.50	61	Y	Y	Y	Y	1.48	0.6	0.01	20	Y		
	3/4"	Zo-e-shield 5 Extreme		WEA-N-306-00578-00002	0.24	0.21	0.48	44	Y	Y	Y	Y	1.36	0.6	0.01	22	Y	Y	
	3/4"	Zo-e-shield 5 Extreme w/ Argon		WEA-N-306-00640-00002	0.21	0.21	0.48	48	Y	Y	Y	Y	1.19	0.6	0.01	26	Y	Y	
	3/4"	Zo-e-shield 6		WEA-N-306-00601-00002	0.30	0.21	0.49	58		Y	Y	Y	Y	1.70	0.6	0.01	15		
	3/4"	Zo-e-shield 6 w/ Argon		WEA-N-306-00663-00002	0.26	0.21	0.49	61	Y	Y	Y	Y	1.48	0.6	0.01	20	Y		
	3/4"	Zo-e SafeGuard Certified		WEA-N-306-00607-00002	0.30	0.21	0.49	59		Y	Y	Y	Y	1.70	0.6	0.01	15		
	3/4"	Zo-e SafeGuard Certified w/ Argon		WEA-N-306-00669-00002	0.26	0.21	0.49	62	Y	Y	Y	Y	1.48	0.6	0.01	20	Y		
	3/4"	Insul Low-E 240		WEA-N-306-00572-00002	0.31	0.20	0.31	56				Y	1.76	0.6	0.01	13			
	3/4"	Insul Low-E 240 w/Argon		WEA-N-306-00634-00002	0.27	0.20	0.31	60	Y	Y	Y	Y	1.53	0.6	0.01	18	Y		
	3/4"	Insul Low-E 340		WEA-N-306-00575-00002	0.30	0.15	0.30	57		Y	Y	Y	Y	1.70	0.6	0.01	11		
	3/4"	Insul Low-E 340 w/Argon		WEA-N-306-00637-00002	0.26	0.14	0.30	61	Y	Y	Y	Y	1.48	0.6	0.01	16			
	3/4"	Bronze Low E		WEA-N-306-00560-00012	0.30	0.31	0.41	57		Y				1.70	0.6	0.01	21		
	3/4"	Bronze Low E w/Argon		WEA-N-306-00622-00012	0.26	0.31	0.41	60	Y	Y			1.48	0.6	0.01	25	Y		
1" Or Over GIA or SDL	3/4"	Clear Insul		WEA-N-306-00557-00003	0.45	0.54	0.56	45					2.56	0.6	0.01	15			
	3/4"	Insul Low-E		WEA-N-306-00560-00003	0.30	0.29	0.49	57		Y			1.70	0.6	0.01	20			
	3/4"	Insul Low E w/Argon		WEA-N-306-00622-00003	0.26	0.29	0.49	60	Y	Y			1.48	0.6	0.01	24	Y		
	3/4"	Passive Solar		WEA-N-306-00566-00003	0.31	0.47	0.54	56											