

Thermal Performance Data

Visions 3500 Single Hung Windows (9107)

(non J-channel)




ENERGY PERFORMANCE DATA								ENERGY STAR		CANADIAN ENERGY PERFORMANCE DATA				ENERGY STAR				
NFRC Total Unit Calculations ^a								US ENERGY STAR V 6.0						CANADA ENERGY STAR v 4.1				
Grille Option	Glazing thickness	Glazing Option ^b	CPD #	U Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	N	NC	SC	S	U-Value (metric)	Maximum Air Leakage L/s/m ²	Air Infiltration/Exfiltration Average	Energy Rating	1	2	3
No GIA or SDL	3/4"	Clear Insul	WEA-N-276-00198-00001	0.46	0.62	0.65	45					2.61	0.6	0.56	18			
	3/4"	Insul Low-E	WEA-N-276-00203-00001	0.34	0.33	0.56	56					1.93	0.6	0.56	16			
	3/4"	Insul Low E w/Argon	WEA-N-276-00330-00001	0.27	0.33	0.57	61	Y	Y			1.53	0.6	0.56	24			
	3/4"	Bronze Low E	WEA-N-276-00202-00011	0.32	0.32	0.42	56					1.82	0.6	0.56	18			
	3/4"	Bronze Low E w/Argon	WEA-N-276-00206-00011	0.28	0.32	0.42	58	Y	Y			1.59	0.6	0.05	24	Y		
	3/4"	Insul Low-E 340	WEA-N-276-00238-00001	0.31	0.15	0.31	50				Y	1.76	0.6	0.56	9			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-276-00250-00001	0.28	0.15	0.31	50		Y	Y	Y	1.59	0.6	0.56	13			
	3/4"	Zo-e-shield 5	WEA-N-276-00210-00001	0.31	0.22	0.51	49				Y	1.76	0.6	0.56	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-276-00220-00001	0.28	0.22	0.51	53		Y	Y	Y	1.59	0.6	0.56	17	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-276-00212-00001	0.26	0.22	0.50	49	Y	Y	Y	Y	1.48	0.6	0.56	19	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-276-00227-00001	0.25	0.22	0.50	50	Y	Y	Y	Y	1.42	0.6	0.56	21	Y		
	3/4"	Insul Low-E 180	WEA-N-276-00230-00001	0.32	0.55	0.63	56					1.82	0.6	0.56	31	Y	Y	
	3/4"	Insul Low E 180 w/Argon	WEA-N-276-00242-00001	0.29	0.55	0.63	56	Y				1.65	0.6	0.56	35	Y	Y	Y
	3/4"	Zo-e-shield 6	WEA-N-276-00210-00002	0.33	0.22	0.50	50				Y	1.87	0.6	0.56	11			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-276-00335-00002	0.27	0.20	0.46	51	Y	Y	Y	Y	1.53	0.6	0.56	17	Y		
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-276-00296-00001	0.28	0.21	0.41	63		Y	Y	Y	1.59	0.6	0.56	16	Y		
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-276-00299-00001	0.24	0.20	0.41	66	Y	Y	Y	Y	1.36	0.6	0.56	21	Y	Y		
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-276-00198-00002	0.46	0.56	0.58	45					2.61	0.6	0.56	14			
	3/4"	Insul Low-E	WEA-N-276-00203-00002	0.34	0.30	0.50	56					1.93	0.6	0.56	14			
	3/4"	Insul Low E w/Argon	WEA-N-276-00330-00002	0.27	0.30	0.51	61	Y	Y			1.53	0.6	0.56	23			
	3/4"	Bronze Low E	WEA-N-276-00202-00012	0.32	0.29	0.38	56		Y			1.82	0.6	0.56	16			
	3/4"	Bronze Low E w/Argon	WEA-N-276-00206-00012	0.28	0.28	0.38	58		Y			1.59	0.6	0.05	21	Y		
	3/4"	Insul Low-E 340	WEA-N-276-00238-00002	0.31	0.14	0.28	50				Y	1.76	0.6	0.56	8			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-276-00250-00002	0.28	0.14	0.28	50		Y	Y	Y	1.59	0.6	0.56	12			
	3/4"	Zo-e-shield 5	WEA-N-276-00210-00002	0.31	0.20	0.51	49				Y	1.76	0.6	0.56	12			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-276-00220-00002	0.28	0.20	0.46	53		Y	Y	Y	1.59	0.6	0.56	16			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-276-00212-00002	0.26	0.20	0.45	49	Y	Y	Y	Y	1.48	0.6	0.56	18	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-276-00227-00002	0.25	0.20	0.44	50	Y	Y	Y	Y	1.42	0.6	0.56	19	Y		
	3/4"	Insul Low-E 180	WEA-N-276-00230-00002	0.32	0.49	0.56	56					1.82	0.6	0.56	27	Y		
	3/4"	Insul Low E 180 w/Argon	WEA-N-276-00242-00002	0.29	0.49	0.56	56	Y				1.65	0.6	0.56	31	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-276-00210-00003	0.33	0.20	0.45	50				Y	1.87	0.6	0.56	9			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-276-00335-00003	0.27	0.18	0.41	51	Y	Y	Y	Y	1.53	0.6	0.56	16			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-276-00298-00002	0.28	0.19	0.36	63		Y	Y	Y	1.59	0.6	0.56	15			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-276-00299-00002	0.24	0.18	0.36	66	Y	Y	Y	Y	1.36	0.6	0.56	20	Y			
1" or Over GIA or SDL	3/4"	Clear Insul	WEA-N-276-00198-00003	0.46	0.50	0.52	45					2.61	0.6	0.56	11			
	3/4"	Insul Low-E	WEA-N-276-00203-00003	0.34	0.27	0.45	56					1.93	0.6	0.56	12			
	3/4"	Insul Low E w/Argon	WEA-N-276-00330-00003	0.27	0.27	0.45	61	Y	Y			1.53	0.6	0.56	21			
	3/4"	Bronze Low E	WEA-N-276-00202-00013	0.32	0.26	0.33	56					1.82	0.6	0.56	14			
	3/4"	Bronze Low E w/Argon	WEA-N-276-00206-00013	0.28	0.26	0.33	58		Y			1.59	0.6	0.05	20	Y		
	3/4"	Insul Low-E 340	WEA-N-276-00238-00003	0.31	0.13	0.24	50				Y	1.76	0.6	0.56	8			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-276-00250-00003	0.28	0.13	0.24	50		Y	Y	Y	1.59	0.6	0.56	12			
	3/4"	Zo-e-shield 5	WEA-N-276-00210-00003	0.31	0.18	0.46	49				Y	1.76	0.6	0.56	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-276-00220-00003	0.28	0.18	0.41	53		Y	Y	Y	1.59	0.6	0.56	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-276-00212-00003	0.26	0.18	0.40	49	Y	Y	Y	Y	1.48	0.6	0.56	17	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-276-00227-00003	0.25	0.18	0.39	50	Y	Y	Y	Y	1.42	0.6	0.56	18	Y		
	3/4"	Insul Low-E 180	WEA-N-276-00230-00003	0.32	0.44	0.50	56					1.82	0.6	0.56	24			
	3/4"	Insul Low E 180 w/Argon	WEA-N-276-00242-00003	0.29	0.44	0.50	56	Y				1.65	0.6	0.56	28	Y		
	3/4"	Zo-e-shield 6	WEA-N-276-00210-00004	0.33	0.18	0.40	50				Y	1.87	0.6	0.56	8			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-276-00335-00004	0.27	0.20	0.46	51	Y	Y	Y	Y	1.53	0.6	0.56	17	Y		
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-276-00298-00003	0.28	0.17	0.32	63		Y	Y	Y	1.59	0.6	0.56	14			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-276-00299-00003	0.24	0.17	0.32	66	Y	Y	Y	Y	1.36	0.6	0.56	19	Y			

^a Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100-2004, NFRC 200-2004, and NFRC 500-2004.

^b Published values reflect 3mm/3mm glass lite thicknesses.

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

* SHGC = Solar Heat Gain Coefficient
Air Leakage <= 0.3 cfm/ft²