

Thermal Performance Data

Visions 3500 Single Hung Windows (9109)

(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	US ENERGY STAR V 6.0				U-Value (metric)	Maximum Air Leakage L/s/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-305-00001-00001	0.46	0.63	0.66	44					2.61	0.6	0.08	19			
	3/4"	Insul Low-E	WEA-N-305-00006-00001	0.32	0.34	0.58	55					1.82	0.6	0.08	20			
	3/4"	Insul Low E w/Argon	WEA-N-305-00011-00001	0.28	0.33	0.58	59	Y	Y			1.59	0.6	0.08	24	Y		
	3/4"	Bronze Low E	WEA-N-305-00008-00001	0.32	0.32	0.42	56					1.82	0.6	0.08	18			
	3/4"	Bronze Low E w/Argon	WEA-N-305-00013-00001	0.28	0.32	0.42	59	Y	Y			1.59	0.6	0.08	24	Y		
	3/4"	Insul Low-E 340	WEA-N-305-00068-00001	0.32	0.15	0.31	56			Y		1.82	0.6	0.08	9			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-305-00076-00001	0.28	0.14	0.31	59		Y	Y	Y	1.59	0.6	0.08	13			
	3/4"	Zo-e-shield 5	WEA-N-305-00018-00001	0.31	0.22	0.52	56			Y		1.76	0.6	0.08	14			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-305-00042-00001	0.28	0.22	0.52	59		Y	Y	Y	1.59	0.6	0.08	18	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-305-00025-00001	0.26	0.22	0.51	44	Y	Y	Y	Y	1.48	0.6	0.08	20	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-305-00049-00001	0.24	0.22	0.51	48	Y	Y	Y	Y	1.36	0.6	0.08	23	Y	Y	
	3/4"	Insul Low-E 180	WEA-N-305-00064-00001	0.33	0.55	0.63	55					1.87	0.6	0.08	31	Y	Y	
	3/4"	Insul Low E 180 w/Argon	WEA-N-305-00072-00001	0.29	0.56	0.63	58	Y				1.65	0.6	0.08	36	Y	Y	Y
	3/4"	Zo-e-shield 6	WEA-N-305-00028-00001	0.34	0.23	0.50	54			Y		1.93	0.6	0.08	11			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-305-00052-00001	0.29	0.22	0.50	57		Y	Y	Y	1.65	0.6	0.08	16			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-305-00080-00001	0.25	0.20	0.41	62	Y	Y	Y	Y	1.42	0.6	0.08	20	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-305-00082-00001	0.22	0.20	0.41	63	Y	Y	Y	Y	1.25	0.6	0.08	24	Y	Y	
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-305-00001-00002	0.46	0.57	0.59	44					2.61	0.6	0.08	16			
	3/4"	Insul Low-E	WEA-N-305-00006-00002	0.32	0.30	0.51	55					1.82	0.6	0.08	17			
	3/4"	Insul Low E w/Argon	WEA-N-305-00085-00002	0.28	0.30	0.51	59		Y			1.59	0.6	0.08	22	Y		
	3/4"	Bronze Low E	WEA-N-305-00008-00002	0.32	0.29	0.38	56					1.82	0.6	0.08	17			
	3/4"	Bronze Low E w/Argon	WEA-N-305-00013-00002	0.28	0.28	0.38	59		Y			1.59	0.6	0.08	21	Y		
	3/4"	Insul Low-E 340	WEA-N-305-00068-00002	0.32	0.14	0.28	56			Y		1.82	0.6	0.08	8			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-305-00076-00002	0.28	0.13	0.28	59		Y	Y	Y	1.59	0.6	0.08	13			
	3/4"	Zo-e-shield 5	WEA-N-305-00018-00002	0.31	0.20	0.46	56			Y		1.76	0.6	0.08	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-305-00042-00002	0.28	0.20	0.46	59		Y	Y	Y	1.59	0.6	0.08	17	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-305-00025-00002	0.26	0.20	0.45	44	Y	Y	Y	Y	1.48	0.6	0.08	19	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-305-00049-00002	0.24	0.20	0.45	48	Y	Y	Y	Y	1.36	0.6	0.08	22	Y	Y	
	3/4"	Insul Low-E 180	WEA-N-305-00064-00002	0.33	0.50	0.57	55					1.87	0.6	0.08	28	Y		
	3/4"	Insul Low E 180 w/Argon	WEA-N-305-00072-00002	0.29	0.50	0.57	58	Y				1.65	0.6	0.08	33	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-305-00029-00001	0.35	0.20	0.45	54			Y		1.99	0.6	0.08	8			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-305-00053-00001	0.30	0.20	0.45	57		Y	Y	Y	1.70	0.6	0.08	14			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-305-00081-00001	0.26	0.19	0.37	62	Y	Y	Y	Y	1.48	0.6	0.08	18	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-305-00083-00001	0.22	0.18	0.37	63	Y	Y	Y	Y	1.25	0.6	0.08	23	Y	Y	
1" or Over GIA or SDL	3/4"	Clear Insul	WEA-N-305-00001-00003	0.46	0.51	0.52	44					2.61	0.6	0.08	12			
	3/4"	Insul Low-E	WEA-N-305-00006-00003	0.32	0.27	0.46	55					1.82	0.6	0.08	16			
	3/4"	Insul Low E w/Argon	WEA-N-305-00011-00003	0.28	0.27	0.46	59		Y			1.59	0.6	0.08	21	Y		
	3/4"	Bronze Low E	WEA-N-305-00008-00003	0.32	0.26	0.33	56					1.82	0.6	0.08	15			
	3/4"	Bronze Low E w/Argon	WEA-N-305-00013-00003	0.28	0.26	0.33	59		Y			1.59	0.6	0.08	20	Y		
	3/4"	Insul Low-E 340	WEA-N-305-00068-00003	0.32	0.12	0.25	56			Y		1.82	0.6	0.08	7			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-305-00076-00003	0.28	0.12	0.25	59		Y	Y	Y	1.59	0.6	0.08	12			
	3/4"	Zo-e-shield 5	WEA-N-305-00018-00003	0.31	0.18	0.41	56			Y		1.76	0.6	0.08	12			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-305-00042-00003	0.28	0.18	0.41	59		Y	Y	Y	1.59	0.6	0.08	15			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-305-00025-00003	0.26	0.18	0.40	44	Y	Y	Y	Y	1.48	0.6	0.08	18	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-305-00049-00003	0.24	0.18	0.40	48	Y	Y	Y	Y	1.36	0.6	0.08	20	Y	Y	
	3/4"	Insul Low-E 180	WEA-N-305-00064-00003	0.33	0.44	0.50	55					1.87	0.6	0.08	24			
	3/4"	Insul Low E 180 w/Argon	WEA-N-305-00072-00003	0.29	0.45	0.50	58	Y				1.65	0.6	0.08	30	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-305-00029-00002	0.35	0.18	0.40	54			Y		1.99	0.6	0.08	7			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-305-00053-00002	0.30	0.18	0.40	57		Y	Y	Y	1.70	0.6	0.08	13			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-305-00081-00002	0.26	0.17	0.33	62	Y	Y	Y	Y	1.48	0.6	0.08	17	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-305-00083-00002	0.22	0.17	0.33	63	Y	Y	Y	Y	1.25	0.6	0.08	22	Y	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		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		

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