

Thermal Performance Data

Visions 3500 Single Hung Windows (9109)

(J-channel)




ENERGY PERFORMANCE DATA								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-305-00001-00001	0.46	0.63	0.66	44					2.61	-	0.00	0				
	3/4"	Insul Low-E	WEA-N-305-00006-00001	0.32	0.34	0.58	55					1.82	-	0.00	0				
	3/4"	Insul Low E w/Argon	WEA-N-305-00084-00001	0.28	0.33	0.58	61	Y	Y			1.59	-	0.00	0				
	3/4"	Bronze Low E	WEA-N-305-00008-00001	0.32	0.32	0.42	56					1.82	-	0.00	0				
	3/4"	Bronze Low E w/Argon	WEA-N-305-00013-00001	0.28	0.32	0.42	59	Y	Y			1.59	-	0.00	0				
	3/4"	Insul Low-E 340	WEA-N-305-00068-00001	0.32	0.15	0.31	56				Y		1.82	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 5	WEA-N-305-00018-00001	0.31	0.22	0.52	56				Y		1.76	-	0.00	0			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-305-00041-00001	0.27	0.22	0.52	61	Y	Y	Y	Y		1.53	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 6	WEA-N-305-00028-00001	0.34	0.23	0.50	54				Y		1.93	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
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	-	0.00	0				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-305-00001-00002	0.46	0.57	0.59	44					2.61	-	0.00	0				
	3/4"	Insul Low-E	WEA-N-305-00006-00002	0.32	0.30	0.51	55					1.82	-	0.00	0				
	3/4"	Insul Low E w/Argon	WEA-N-305-00084-00002	0.28	0.30	0.51	61		Y			1.59	-	0.00	0				
	3/4"	Bronze Low E	WEA-N-305-00008-00004	0.32	0.29	0.38	56					1.82	-	0.00	0				
	3/4"	Bronze Low E w/Argon	WEA-N-305-00013-00004	0.28	0.28	0.38	59		Y			1.59	-	0.00	0				
	3/4"	Insul Low-E 340	WEA-N-305-00068-00002	0.32	0.14	0.28	56				Y		1.82	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 5	WEA-N-305-00018-00002	0.31	0.20	0.46	56				Y		1.76	-	0.00	0			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-305-00041-00002	0.27	0.20	0.46	61	Y	Y	Y	Y		1.53	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 6	WEA-N-305-00029-00003	0.35	0.20	0.45	54				Y		1.99	-	0.00	0			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-305-00053-00003	0.30	0.20	0.45	57		Y	Y	Y		1.70	-	0.00	0			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-305-00081-00003	0.26	0.19	0.37	62	Y	Y	Y	Y		1.48	-	0.00	0			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-305-00083-00003	0.22	0.18	0.37	63	Y	Y	Y	Y		1.25	-	0.00	0				
1" or Over GIA or SDL	3/4"	Clear Insul	WEA-N-305-00001-00005	0.46	0.51	0.52	44					2.61	-	0.00	0				
	3/4"	Insul Low-E	WEA-N-305-00006-00005	0.32	0.27	0.46	55					1.82	-	0.00	0				
	3/4"	Insul Low E w/Argon	WEA-N-305-00084-00005	0.28	0.27	0.46	61		Y			1.59	-	0.00	0				
	3/4"	Bronze Low E	WEA-N-305-00008-00005	0.32	0.26	0.33	56					1.82	-	0.00	0				
	3/4"	Bronze Low E w/Argon	WEA-N-305-00013-00005	0.28	0.26	0.33	59		Y			1.59	-	0.00	0				
	3/4"	Insul Low-E 340	WEA-N-305-00068-00005	0.32	0.12	0.25	56				Y		1.82	-	0.00	0			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-305-00076-00005	0.28	0.12	0.25	59		Y	Y	Y		1.59	-	0.00	0			
	3/4"	Zo-e-shield 5	WEA-N-305-00018-00005	0.31	0.18	0.41	56				Y		1.76	-	0.00	0			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-305-00041-00005	0.27	0.18	0.41	61	Y	Y	Y	Y		1.53	-	0.00	0			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-305-00025-00005	0.26	0.18	0.40	44	Y	Y	Y	Y		1.48	-	0.00	0			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-305-00049-00005	0.24	0.18	0.40	48	Y	Y	Y	Y		1.36	-	0.00	0			
	3/4"	Zo-e-shield 6	WEA-N-305-00029-00004	0.35	0.18	0.40	54				Y		1.99	-	0.00	0			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-305-00053-00004	0.30	0.18	0.40	57		Y	Y	Y		1.70	-	0.00	0			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-305-00081-00004	0.26	0.16	0.33	62	Y	Y	Y	Y		1.48	-	0.00	0			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-305-00083-00004	0.22	0.17	0.33	63	Y	Y	Y	Y		1.25	-	0.00	0				

^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.

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

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