

Thermal Performance Data

Visions 3500 Double Hung Windows (9110)

(J-channel)




ENERGY PERFORMANCE DATA								US ENERGY STAR V 6.0		CANADIAN ENERGY PERFORMANCE DATA				CANADA ENERGY STAR v 4.1				
NFRC Total Unit Calculations ^a								US ENERGY STAR V 6.0		CANADIAN ENERGY PERFORMANCE DATA				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-307-00001-00001	0.44	0.60	0.62	45					2.50	0.6	1.17	18			
	3/4"	Insul Low-E	WEA-N-307-00006-00001	0.31	0.32	0.54	56					1.76	0.6	1.17	18			
	3/4"	Insul Low E w/Argon	WEA-N-307-00085-00001	0.27	0.31	0.54	62	Y	Y			1.53	0.6	1.17	22	Y		
	3/4"	Bronze Low E	WEA-N-307-00008-00001	0.31	0.30	0.40	56					1.76	0.6	1.17	16			
	3/4"	Bronze Low E w/Argon	WEA-N-307-00013-00001	0.28	0.30	0.40	60		Y			1.59	0.6	1.17	20	Y		
	3/4"	Insul Low-E 340	WEA-N-307-00068-00001	0.31	0.14	0.29	57				Y	1.76	0.6	0.05	9			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-307-00076-00001	0.27	0.14	0.29	60	Y	Y	Y	Y	1.53	0.6	1.17	12			
	3/4"	Zo-e-shield 5	WEA-N-307-00018-00001	0.30	0.21	0.49	57		Y	Y	Y	1.70	0.6	1.17	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-307-00042-00001	0.27	0.21	0.49	61	Y	Y	Y	Y	1.53	0.6	1.17	16	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-307-00025-00001	0.26	0.21	0.48	44	Y	Y	Y	Y	1.48	0.6	1.17	17	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-307-00049-00001	0.23	0.20	0.48	48	Y	Y	Y	Y	1.31	0.6	1.17	21	Y	Y	
	3/4"	Insul Low-E 180	WEA-N-307-00064-00001	0.32	0.52	0.60	56					1.82	0.6	0.05	30	Y	Y	
	3/4"	Insul Low E 180 w/Argon	WEA-N-307-00072-00001	0.28	0.53	0.60	59	Y				1.59	0.6	1.17	33	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-307-00028-00001	0.33	0.21	0.48	55				Y	1.87	0.6	1.17	9			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-307-00052-00001	0.28	0.21	0.48	59		Y	Y	Y	1.59	0.6	1.17	15			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-307-00080-00001	0.25	0.19	0.39	64	Y	Y	Y	Y	1.42	0.6	1.17	18	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-307-00082-00001	0.21	0.19	0.39	69	Y	Y	Y	Y	1.19	0.6	1.17	23	Y	Y	
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-307-00001-00002	0.44	0.53	0.55	45					2.50	0.6	1.17	14			
	3/4"	Insul Low-E	WEA-N-307-00006-00002	0.31	0.29	0.48	56					1.76	0.6	1.17	16			
	3/4"	Insul Low E w/Argon	WEA-N-307-00085-00002	0.27	0.28	0.48	62	Y	Y			1.53	0.6	1.17	20	Y		
	3/4"	Bronze Low E	WEA-N-307-00008-00002	0.31	0.27	0.36	56					1.76	0.6	1.17	15			
	3/4"	Bronze Low E w/Argon	WEA-N-307-00013-00002	0.28	0.27	0.36	60		Y			1.59	0.6	1.17	18	Y		
	3/4"	Insul Low-E 340	WEA-N-307-00068-00002	0.31	0.13	0.26	57				Y	1.76	0.6	1.17	7			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-307-00076-00002	0.27	0.13	0.26	60	Y	Y	Y	Y	1.53	0.6	1.17	12			
	3/4"	Zo-e-shield 5	WEA-N-307-00018-00002	0.30	0.19	0.43	57		Y	Y	Y	1.70	0.6	1.17	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-307-00042-00002	0.27	0.19	0.43	61	Y	Y	Y	Y	1.53	0.6	1.17	15			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-307-00025-00002	0.26	0.19	0.42	44	Y	Y	Y	Y	1.48	0.6	1.17	16	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-307-00049-00002	0.23	0.19	0.42	48	Y	Y	Y	Y	1.31	0.6	1.17	20	Y		
	3/4"	Insul Low-E 180	WEA-N-307-00064-00002	0.32	0.47	0.53	56					1.82	0.6	0.05	27	Y		
	3/4"	Insul Low E 180 w/Argon	WEA-N-307-00072-00002	0.28	0.47	0.53	59	Y				1.59	0.6	1.17	30	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-307-00029-00001	0.34	0.19	0.42	55				Y	1.93	0.6	0.05	9			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-307-00053-00001	0.29	0.19	0.42	58		Y	Y	Y	1.65	0.6	1.17	13			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-307-00081-00001	0.25	0.17	0.35	64	Y	Y	Y	Y	1.42	0.6	1.17	16	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-307-00083-00001	0.22	0.17	0.35	69	Y	Y	Y	Y	1.25	0.6	1.17	20	Y	Y	
1" or Over GIA or SDL	3/4"	Clear Insul	WEA-N-307-00001-00003	0.44	0.47	0.49	45					2.50	0.6	1.17	10			
	3/4"	Insul Low-E	WEA-N-307-00006-00003	0.31	0.26	0.43	56					1.76	0.6	1.17	14			
	3/4"	Insul Low E w/Argon	WEA-N-307-00085-00003	0.27	0.25	0.42	62	Y	Y	Y	Y	1.53	0.6	1.17	19	Y		
	3/4"	Bronze Low E	WEA-N-307-00008-00003	0.31	0.24	0.31	56				Y	1.76	0.6	1.17	13			
	3/4"	Bronze Low E w/Argon	WEA-N-307-00013-00003	0.28	0.24	0.31	60		Y	Y	Y	1.59	0.6	1.17	17	Y		
	3/4"	Insul Low-E 340	WEA-N-307-00068-00003	0.31	0.12	0.23	57				Y	1.76	0.6	1.17	6			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-307-00076-00003	0.27	0.11	0.23	60	Y	Y	Y	Y	1.53	0.6	1.17	11			
	3/4"	Zo-e-shield 5	WEA-N-307-00018-00003	0.30	0.17	0.38	57		Y	Y	Y	1.70	0.6	1.17	10			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-307-00042-00003	0.27	0.17	0.38	61	Y	Y	Y	Y	1.53	0.6	1.17	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-307-00025-00003	0.26	0.17	0.38	44	Y	Y	Y	Y	1.48	0.6	1.17	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-307-00049-00003	0.23	0.17	0.38	48	Y	Y	Y	Y	1.31	0.6	1.17	19	Y		
	3/4"	Insul Low-E 180	WEA-N-307-00064-00003	0.32	0.42	0.47	56					1.82	0.6	0.05	24			
	3/4"	Insul Low E 180 w/Argon	WEA-N-307-00072-00003	0.28	0.42	0.47	59	Y				1.59	0.6	1.17	27	Y		
	3/4"	Zo-e-shield 6	WEA-N-307-00029-00002	0.34	0.17	0.37	55				Y	1.93	0.6	0.05	7			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-307-00053-00002	0.29	0.17	0.37	58		Y	Y	Y	1.65	0.6	1.17	11			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-307-00081-00002	0.25	0.16	0.30	64	Y	Y	Y	Y	1.42	0.6	1.17	16			
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-307-00083-00002	0.22	0.16	0.30	69	Y	Y	Y	Y	1.25	0.6	1.17	20	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