

Thermal Performance Data

Visions 3500 Double Hung Windows (9108)

(non J-channel)




ENERGY PERFORMANCE DATA														CANADIAN ENERGY PERFORMANCE DATA					
NFRC Total Unit Calculations ^a														ENERGY STAR					
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-289-00040-00001	0.45	0.59	0.62	45					2.56	0.6	1.30	17				
	3/4"	Insul Low-E	WEA-N-289-00045-00001	0.31	0.32	0.54	58					1.76	0.6	1.30	19				
	3/4"	Insul Low E w/Argon	WEA-N-289-00052-00001	0.27	0.32	0.54	62	Y	Y			1.53	0.6	1.30	24	Y			
	3/4"	Bronze Low E	WEA-N-289-00048-00011	0.31	0.30	0.40	56					1.76	0.6	1.30	18				
	3/4"	Bronze Low E w/Argon	WEA-N-289-00055-00011	0.28	0.30	0.40	60		Y			1.59	0.6	1.30	22	Y			
	3/4"	Insul Low-E 340	WEA-N-289-00105-00001	0.31	0.14	0.29	57				Y		1.76	0.6	1.30	9			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-289-00120-00001	0.28	0.14	0.29	60		Y	Y	Y		1.59	0.6	1.30	13			
	3/4"	Zo-e-shield 5	WEA-N-289-00061-00001	0.31	0.21	0.49	57				Y		1.76	0.6	1.30	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-289-00079-00001	0.27	0.21	0.49	61	Y	Y	Y	Y		1.53	0.6	1.30	18	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-289-00065-00001	0.26	0.21	0.48	44	Y	Y	Y	Y		1.48	0.6	1.30	19	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-289-00083-00001	0.24	0.20	0.48	48	Y	Y	Y	Y		1.36	0.6	1.30	21	Y	Y	
	1"	Zo-e-shield 6	WEA-N-289-00069-00001	0.31	0.21	0.47	59				Y		1.76	0.6	1.30	13			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-289-00087-00001	0.28	0.21	0.47	63		Y	Y	Y		1.59	0.6	1.30	17	Y		
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-289-00183-00001	0.25	0.19	0.39	66	Y	Y	Y	Y		1.42	0.6	1.30	19	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-289-00185-00001	0.22	0.19	0.39	67	Y	Y	Y	Y		1.25	0.6	1.30	23	Y	Y	
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-289-00040-00002	0.45	0.53	0.55	45					2.56	0.6	1.30	14				
	3/4"	Insul Low-E	WEA-N-289-00045-00002	0.31	0.29	0.48	58					1.76	0.6	1.30	18				
	3/4"	Insul Low E w/Argon	WEA-N-289-00052-00002	0.27	0.28	0.48	62	Y	Y			1.53	0.6	1.30	22	Y			
	3/4"	Bronze Low E	WEA-N-289-00048-00012	0.31	0.27	0.35	56					1.76	0.6	1.30	16				
	3/4"	Bronze Low E w/Argon	WEA-N-289-00055-00012	0.28	0.27	0.35	60		Y			1.59	0.6	1.30	20	Y			
	3/4"	Insul Low-E 340	WEA-N-289-00105-00002	0.31	0.13	0.26	57				Y		1.76	0.6	1.30	8			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-289-00120-00002	0.28	0.12	0.26	60		Y	Y	Y		1.59	0.6	1.30	11			
	3/4"	Zo-e-shield 5	WEA-N-289-00061-00002	0.31	0.19	0.43	57				Y		1.76	0.6	1.30	12			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-289-00079-00002	0.27	0.19	0.43	61	Y	Y	Y	Y		1.53	0.6	1.30	17	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-289-00065-00002	0.26	0.19	0.42	44	Y	Y	Y	Y		1.48	0.6	1.30	18	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-289-00083-00002	0.24	0.18	0.42	48	Y	Y	Y	Y		1.36	0.6	1.30	20	Y		
	1"	Zo-e-shield 6	WEA-N-289-00069-00002	0.31	0.19	0.42	59				Y		1.76	0.6	1.30	12			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-289-00087-00002	0.28	0.19	0.42	63		Y	Y	Y		1.59	0.6	1.30	15			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-289-00184-00001	0.26	0.17	0.34	66	Y	Y	Y	Y		1.48	0.6	1.30	17	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-289-00186-00001	0.22	0.17	0.34	67	Y	Y	Y	Y		1.25	0.6	1.30	22	Y	Y	
1" or Over GIA or SDL	3/4"	Clear Insul	WEA-N-289-00040-00005	0.45	0.47	0.49	45					2.56	0.6	1.30	10				
	3/4"	Insul Low-E	WEA-N-289-00045-00005	0.31	0.26	0.42	58					1.76	0.6	1.30	16				
	3/4"	Insul Low E w/Argon	WEA-N-289-00052-00005	0.27	0.25	0.42	62	Y	Y	Y	Y		1.53	0.6	1.30	20	Y		
	3/4"	Bronze Low E	WEA-N-289-00048-00015	0.31	0.24	0.31	56				Y		1.76	0.6	1.30	15			
	3/4"	Bronze Low E w/Argon	WEA-N-289-00055-00015	0.28	0.24	0.31	60		Y	Y	Y		1.59	0.6	1.30	18	Y		
	3/4"	Insul Low-E 340	WEA-N-289-00105-00005	0.31	0.12	0.23	57				Y		1.76	0.6	1.30	8			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-289-00120-00005	0.28	0.11	0.23	60		Y	Y	Y		1.59	0.6	1.30	11			
	3/4"	Zo-e-shield 5	WEA-N-289-00061-00005	0.31	0.17	0.38	57				Y		1.76	0.6	1.30	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-289-00079-00005	0.27	0.17	0.38	61	Y	Y	Y	Y		1.53	0.6	1.30	16			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-289-00065-00005	0.26	0.17	0.37	44	Y	Y	Y	Y		1.48	0.6	1.30	17	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-289-00083-00005	0.24	0.17	0.37	48	Y	Y	Y	Y		1.36	0.6	1.30	19	Y		
	1"	Zo-e-shield 6	WEA-N-289-00069-00005	0.31	0.17	0.37	59				Y		1.76	0.6	1.30	11			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-289-00087-00005	0.28	0.17	0.37	63		Y	Y	Y		1.59	0.6	1.30	14			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-289-00184-00004	0.26	0.16	0.30	66	Y	Y	Y	Y		1.48	0.6	1.30	16	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-289-00186-00004	0.22	0.16	0.30	67	Y	Y	Y	Y		1.25	0.6	1.30	21	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.

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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