

Thermal Performance Data

Visions 3500 Double Hung Windows (9110)

(J-channel)




ENERGY PERFORMANCE DATA								US ENERGY STAR V 6.0				CANADIAN ENERGY PERFORMANCE DATA						
NFRC Total Unit Calculations ^a								ENERGY STAR				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-307-00001-00001	0.44	0.60	0.62	45					2.50	-	0.00	0			
	3/4"	Insul Low-E	WEA-N-307-00007-00001	0.31	0.32	0.54	56					1.76	-	0.00	0			
	3/4"	Insul Low E w/Argon	WEA-N-307-00085-00001	0.27	0.31	0.54	62	Y	Y			1.53	-	0.00	0			
	3/4"	Bronze Low E	WEA-N-307-00008-00001	0.31	0.30	0.40	56					1.76	-	0.00	0			
	3/4"	Bronze Low E w/Argon	WEA-N-307-00013-00001	0.28	0.30	0.40	60		Y			1.59	-	0.00	0			
	3/4"	Insul Low-E 340	WEA-N-307-00068-00001	0.31	0.14	0.29	57				Y	1.76	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 5	WEA-N-307-00018-00001	0.30	0.21	0.49	57		Y	Y	Y	1.70	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 6	WEA-N-307-00028-00001	0.33	0.21	0.48	55				Y	1.87	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
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	-	0.00	0				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-307-00001-00002	0.44	0.53	0.55	45					2.50	-	0.00	0			
	3/4"	Insul Low-E	WEA-N-307-00007-00004	0.31	0.28	0.48	56					1.76	-	0.00	0			
	3/4"	Insul Low E w/Argon	WEA-N-307-00085-00004	0.27	0.28	0.48	62	Y	Y			1.53	-	0.00	0			
	3/4"	Bronze Low E	WEA-N-307-00008-00002	0.31	0.27	0.36	56					1.76	-	0.00	0			
	3/4"	Bronze Low E w/Argon	WEA-N-307-00013-00002	0.28	0.27	0.36	60		Y			1.59	-	0.00	0			
	3/4"	Insul Low-E 340	WEA-N-307-00068-00002	0.31	0.13	0.26	57				Y	1.76	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 5	WEA-N-307-00018-00002	0.30	0.19	0.43	57		Y	Y	Y	1.70	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
	3/4"	Zo-e-shield 6	WEA-N-307-00029-00001	0.34	0.19	0.42	55				Y	1.93	-	0.00	0			
	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	-	0.00	0			
	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	-	0.00	0			
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	-	0.00	0				
1" or Over GIA or SDL	3/4"	Clear Insul	WEA-N-307-00001-00005	0.44	0.47	0.49	45					2.50	-	0.00	0			
	3/4"	Insul Low-E	WEA-N-307-00007-00005	0.31	0.25	0.42	56				Y	1.76	-	0.00	0			
	3/4"	Insul Low E w/Argon	WEA-N-307-00085-00005	0.27	0.25	0.42	62	Y	Y	Y	Y	1.53	-	0.00	0			
	3/4"	Bronze Low E	WEA-N-307-00008-00005	0.31	0.24	0.31	56				Y	1.76	-	0.00	0			
	3/4"	Bronze Low E w/Argon	WEA-N-307-00013-00005	0.28	0.24	0.31	60		Y	Y	Y	1.59	-	0.00	0			
	3/4"	Insul Low-E 340	WEA-N-307-00068-00005	0.31	0.12	0.23	57				Y	1.76	-	0.00	0			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-307-00076-00005	0.27	0.11	0.23	60	Y	Y	Y	Y	1.53	-	0.00	0			
	3/4"	Zo-e-shield 5	WEA-N-307-00018-00005	0.30	0.17	0.38	57		Y	Y	Y	1.70	-	0.00	0			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-307-00042-00005	0.27	0.17	0.38	61	Y	Y	Y	Y	1.53	-	0.00	0			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-307-00025-00005	0.26	0.17	0.38	44	Y	Y	Y	Y	1.48	-	0.00	0			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-307-00049-00005	0.23	0.17	0.38	48	Y	Y	Y	Y	1.31	-	0.00	0			
	3/4"	Zo-e-shield 6	WEA-N-307-00029-00004	0.34	0.17	0.37	55				Y	1.93	-	0.00	0			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-307-00053-00004	0.29	0.17	0.37	58		Y	Y	Y	1.65	-	0.00	0			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-307-00081-00004	0.25	0.16	0.30	64	Y	Y	Y	Y	1.42	-	0.00	0			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-307-00083-00004	0.22	0.16	0.30	69	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