

Thermal Performance Data

Visions 3500 Casement Picture (9203)



ENERGY PERFORMANCE DATA														CANADIAN ENERGY PERFORMANCE DATA				
NFRC Total Unit Calculations ^a														CANADIAN ENERGY PERFORMANCE DATA				
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/m2	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-302-00002-00001	0.43	0.60	0.63	45					2.44	0.6	0.46	20			
	3/4"	Insul Low-E	WEA-N-302-00017-00001	0.30	0.33	0.55	57		Y			1.70	0.6	0.46	21			
	3/4"	Insul Low E w/Argon	WEA-N-302-00047-00001	0.26	0.32	0.55	60	Y	Y			1.48	0.6	0.46	25	Y		
	3/4"	Bronze Low E	WEA-N-302-00021-00001	0.30	0.31	0.41	57		Y			1.70	0.6	0.46	20			
	3/4"	Bronze Low E w/Argon	WEA-N-302-00051-00001	0.26	0.31	0.41	61	Y	Y			1.48	0.6	0.46	25	Y		
	3/4"	Insul Low-E 340	WEA-N-302-00181-00001	0.29	0.15	0.30	57		Y	Y	Y	1.65	0.6	0.46	12			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-302-00203-00001	0.26	0.14	0.30	61	Y	Y	Y	Y	1.48	0.6	0.05	16			
	3/4"	Zo-e-shield 5	WEA-N-302-00067-00001	0.29	0.22	0.50	57		Y	Y	Y	1.65	0.6	0.46	16			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-302-00121-00001	0.26	0.21	0.50	61	Y	Y	Y	Y	1.48	0.6	0.46	19	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-302-00087-00001	0.24	0.21	0.49	44	Y	Y	Y	Y	1.36	0.6	0.46	21	Y	Y	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-302-00141-00001	0.22	0.21	0.49	48	Y	Y	Y	Y	1.25	0.6	0.46	24	Y	Y	
	3/4"	Insul Low-E 180	WEA-N-302-00170-00001	0.30	0.53	0.61	56	Y				1.70	0.6	0.46	32	Y	Y	
	3/4"	Insul Low E 180 w/Argon	WEA-N-302-00192-00001	0.27	0.53	0.61	60	Y				1.53	0.6	0.05	37	Y	Y	Y
	3/4"	Zo-e-shield 6	WEA-N-302-00091-00001	0.31	0.22	0.49	54				Y	1.76	0.6	0.46	13			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-302-00145-00001	0.27	0.22	0.49	58	Y	Y	Y	Y	1.53	0.6	0.46	18	Y		
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-302-00213-00001	0.24	0.20	0.40	67	Y	Y	Y	Y	1.36	0.6	0.05	22	Y	Y	
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-302-00215-00001	0.20	0.20	0.40	71	Y	Y	Y	Y	1.14	0.6	0.05	26	Y	Y	Y
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-302-00002-00002	0.43	0.54	0.57	45					2.44	0.6	0.46	17			
	3/4"	Insul Low-E	WEA-N-302-00017-00002	0.30	0.29	0.49	57		Y			1.70	0.6	0.46	19			
	3/4"	Insul Low E w/Argon	WEA-N-302-00047-00002	0.26	0.29	0.49	60	Y	Y			1.48	0.6	0.46	23	Y		
	3/4"	Bronze Low E	WEA-N-302-00021-00002	0.30	0.28	0.37	57		Y			1.70	0.6	0.46	18			
	3/4"	Bronze Low E w/Argon	WEA-N-302-00051-00002	0.26	0.28	0.37	61	Y	Y			1.48	0.6	0.46	23	Y		
	3/4"	Insul Low-E 340	WEA-N-302-00181-00002	0.29	0.13	0.27	57		Y	Y	Y	1.65	0.6	0.46	10			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-302-00203-00002	0.26	0.13	0.27	61	Y	Y	Y	Y	1.48	0.6	0.05	15			
	3/4"	Zo-e-shield 5	WEA-N-302-00062-00002	0.29	0.20	0.44	59		Y	Y	Y	1.65	0.6	0.46	15			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-302-00116-00002	0.25	0.19	0.44	63	Y	Y	Y	Y	1.42	0.6	0.46	19	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-302-00087-00002	0.24	0.19	0.43	44	Y	Y	Y	Y	1.36	0.6	0.46	20	Y	Y	
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-302-00141-00002	0.22	0.19	0.43	48	Y	Y	Y	Y	1.25	0.6	0.46	23	Y	Y	
	3/4"	Insul Low-E 180	WEA-N-302-00170-00002	0.30	0.48	0.54	56	Y				1.70	0.6	0.46	30	Y	Y	
	3/4"	Insul Low E 180 w/Argon	WEA-N-302-00192-00002	0.27	0.48	0.54	60	Y				1.53	0.6	0.05	34	Y	Y	Y
	3/4"	Zo-e-shield 6	WEA-N-302-00092-00001	0.33	0.20	0.44	54				Y	1.87	0.6	0.46	10			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-302-00146-00001	0.28	0.20	0.44	58		Y	Y	Y	1.59	0.6	0.46	16			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-302-00214-00001	0.24	0.18	0.35	67	Y	Y	Y	Y	1.36	0.6	0.05	21	Y	Y	
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-302-00216-00001	0.20	0.18	0.35	71	Y	Y	Y	Y	1.14	0.6	0.05	25	Y	Y	Y
1" or Over GIA or SDL	3/4"	Clear Insul	WEA-N-302-00002-00003	0.43	0.48	0.50	45					2.44	0.6	0.46	13			
	3/4"	Insul Low-E	WEA-N-302-00017-00003	0.30	0.26	0.44	57		Y			1.70	0.6	0.46	17			
	3/4"	Insul Low E w/Argon	WEA-N-302-00047-00003	0.26	0.26	0.44	60	Y	Y			1.48	0.6	0.46	22	Y		
	3/4"	Bronze Low E	WEA-N-302-00021-00003	0.30	0.25	0.32	57		Y	Y	Y	1.70	0.6	0.46	16			
	3/4"	Bronze Low E w/Argon	WEA-N-302-00051-00003	0.26	0.25	0.32	61	Y	Y	Y	Y	1.48	0.6	0.46	21	Y		
	3/4"	Insul Low-E 340	WEA-N-302-00181-00003	0.29	0.12	0.24	57		Y	Y	Y	1.65	0.6	0.46	10			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-302-00203-00003	0.26	0.12	0.24	61	Y	Y	Y	Y	1.48	0.6	0.05	14			
	3/4"	Zo-e-shield 5	WEA-N-302-00062-00003	0.29	0.18	0.39	59		Y	Y	Y	1.65	0.6	0.46	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-302-00116-00003	0.25	0.17	0.39	63	Y	Y	Y	Y	1.42	0.6	0.46	18	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-302-00087-00003	0.24	0.17	0.38	44	Y	Y	Y	Y	1.36	0.6	0.46	19	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-302-00141-00003	0.22	0.17	0.38	48	Y	Y	Y	Y	1.25	0.6	0.46	22	Y	Y	
	3/4"	Insul Low-E 180	WEA-N-302-00170-00003	0.30	0.42	0.48	56	Y				1.70	0.6	0.46	26	Y		
	3/4"	Insul Low E 180 w/Argon	WEA-N-302-00192-00003	0.27	0.43	0.48	60	Y				1.53	0.6	0.05	31	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-302-00092-00002	0.33	0.18	0.39	54				Y	1.87	0.6	0.46	9			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-302-00146-00002	0.28	0.18	0.39	58		Y	Y	Y	1.59	0.6	0.46	15			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-302-00214-00002	0.24	0.16	0.31	67	Y	Y	Y	Y	1.36	0.6	0.05	19	Y		
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-302-00216-00002	0.20	0.16	0.31	71	Y	Y	Y	Y	1.14	0.6	0.05	24	Y	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.

Revised 7/2/18

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

US Qualification Criteria	Climate Zone	U-Factor	*SHGC	
<p>As of January 2016</p>	Northern	<=0.27	Any	Prescriptive
	North-Central	=0.28	>=0.32	Equivalent Energy Performance
		=0.29	>=0.37	
		=0.30	>=0.42	
	South-Central	<=0.30	<=0.40	
Southern	<=0.30	<=0.25		

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