

Thermal Performance Data

Premium Casement Windows - Operating (8211)



Weather Shield®
Windows & Doors

ENERGY PERFORMANCE DATA											CANADIAN ENERGY PERFORMANCE DATA						
NFRC Total Unit Calculations ^a																	
Grille Option	Glazing thickness	Glazing Option	U Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US Energy Star				U-Value (metric)	Air Infiltration L/s/m2	Energy R ating	CANADA Energy Star (2010)			
							N	NC	SC	S				A	B	C	D
No Grilles	3/4"	Clear Insul	0.44	0.54	0.56	44					2.50	0.05	16				
	3/4"	Insul Low-E	0.33	0.29	0.49	56			Y		1.87	0.05	16				
	3/4"	Insul Low E w/Argon	0.30	0.29	0.49	59	Y	Y	Y		1.70	0.05	19	Y			
	3/4"	Zo-e-shield 5	0.32	0.20	0.44	56		Y	Y	Y	1.82	0.05	12	Y			
	3/4"	Zo-e-shield 5 w/ Argon	0.29	0.19	0.44	60	Y	Y	Y	Y	1.65	0.05	15	Y			
	3/4"	Zo-e-shield 5 Extreme	0.28	0.18	0.40	44	Y	Y	Y	Y	1.59	0.05	16	Y	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	0.26	0.18	0.40	47	Y	Y	Y	Y	1.48	0.05	18	Y	Y		
	3/4"	Zo-e-shield 6	0.43	0.20	0.43	44				Y	2.44	0.05	-2				
	3/4"	Zo-e-shield 6 w/ Argon	0.38	0.20	0.43	48				Y	2.16	0.05	4				
	1"	Zo-e-shield 7 (Triple Glazed)	0.29	0.18	0.35	61	Y	Y	Y	Y	1.65	0.05	14	Y			
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	0.25	0.18	0.35	63	Y	Y	Y	Y	1.42	0.05	19	Y	Y	Y	
5/8" - 13/16" GIA	3/4"	Clear Insul	0.44	0.49	0.51	44					2.50	0.05	14				
	3/4"	Insul Low-E	0.33	0.27	0.44	56			Y	Y	1.87	0.05	15				
	3/4"	Insul Low E w/Argon	0.30	0.26	0.44	59	Y	Y	Y	Y	1.70	0.05	18	Y			
	3/4"	Zo-e-shield 5	0.32	0.18	0.40	56		Y	Y	Y	1.82	0.05	11	Y			
	3/4"	Zo-e-shield 5 w/ Argon	0.29	0.18	0.40	60	Y	Y	Y	Y	1.65	0.05	14	Y			
	3/4"	Zo-e-shield 5 Extreme	0.28	0.17	0.36	44	Y	Y	Y	Y	1.59	0.05	15	Y	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	0.26	0.17	0.36	47	Y	Y	Y	Y	1.48	0.05	17	Y	Y		
	3/4"	Zo-e-shield 6	0.46	0.18	0.39	43				Y	2.61	0.05	-7				
	3/4"	Zo-e-shield 6 w/ Argon	0.42	0.18	0.39	48				Y	2.38	0.05	-2				
	1"	Zo-e-shield 7 (Triple Glazed)	0.29	0.17	0.32	61	Y	Y	Y	Y	1.65	0.05	14	Y			
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	0.26	0.16	0.32	63	Y	Y	Y	Y	1.48	0.05	17	Y	Y		
Over 7/8" GIA or SDL	3/4"	Clear Insul	0.44	0.49	0.51	44					2.50	0.05	14				
	3/4"	Insul Low-E	0.33	0.24	0.40	56			Y	Y	1.87	0.05	13				
	3/4"	Insul Low E w/Argon	0.30	0.24	0.40	59	Y	Y	Y	Y	1.70	0.05	17	Y			
	3/4"	Zo-e-shield 5	0.32	0.17	0.36	56		Y	Y	Y	1.82	0.05	10	Y			
	3/4"	Zo-e-shield 5 w/ Argon	0.29	0.16	0.36	60	Y	Y	Y	Y	1.65	0.05	13	Y			
	3/4"	Zo-e-shield 5 Extreme	0.28	0.16	0.32	44	Y	Y	Y	Y	1.59	0.05	14	Y	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	0.26	0.15	0.32	47	Y	Y	Y	Y	1.48	0.05	16	Y	Y		
	3/4"	Zo-e-shield 6	0.46	0.17	0.35	43				Y	2.61	0.05	-7				
	3/4"	Zo-e-shield 6 w/ Argon	0.42	0.16	0.35	48				Y	2.38	0.05	-3				
	1"	Zo-e-shield 7 (Triple Glazed)	0.29	0.15	0.29	61	Y	Y	Y	Y	1.65	0.05	13	Y			
	1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	0.26	0.15	0.29	63	Y	Y	Y	Y	1.48	0.05	16	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.

US Qualification Criteria	Climate Zone	U-Factor	*SHGC
 As of January 2010	Northern	<=0.30	Any
		<=0.31	>=0.35
		<=0.32	>=0.40
	North-Central	<=0.32	<=0.40
	South-Central	<=0.35	<=0.30
	Southern	<=0.60	<=0.27

* SHGC = Solar Heat Gain Coefficient