

Thermal Performance Data

Premium Double Hung Windows (8109)



Weather Shield®
Windows & Doors

ENERGY PERFORMANCE DATA							 ENERGY STAR US Energy Star				CANADIAN ENERGY PERFORMANCE DATA			 ENERGY STAR CANADA Energy Star			
NFRC Total Unit Calculations ^a											U-Value (metric)	Air Infiltration L/s/m²	Energy Rating				
Grille Option	Glazing thickness	Glazing Option	U Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating											
							N	NC	SC	S				A	B	C	D
No Grilles	3/4"	Clear Insul	0.47	0.58	0.61	43					2.67	0.36	15				
	3/4"	Insul Low-E	0.34	0.31	0.53	53					1.93	0.36	15				
	3/4"	Insul Low E w/Argon	0.31	0.31	0.53	56		Y			1.76	0.36	19	Y			
	3/4"	Zo-e-shield 5	0.34	0.21	0.48	54			Y	Y	1.93	0.36	10				
	3/4"	Zo-e-shield 5 w/ Argon	0.30	0.21	0.48	57	Y	Y	Y	Y	1.70	0.36	15	Y			
	3/4"	Zo-e-shield 5 Extreme	0.29	0.19	0.43	43	Y	Y	Y	Y	1.65	0.36	15	Y			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	0.27	0.19	0.43	46	Y	Y	Y	Y	1.53	0.36	17	Y	Y		
	3/4"	Zo-e-shield 6	0.36	0.21	0.47	50				Y	2.04	0.36	7				
	3/4"	Zo-e-shield 6 w/ Argon	0.32	0.21	0.47	54		Y	Y	Y	1.82	0.36	12	Y			
	1"	Zo-e-shield 7 (Triple Glazed)	0.28	0.18	0.37	61	Y	Y	Y	Y	1.59	0.36	15	Y	Y		
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	0.24	0.18	0.37	64	Y	Y	Y	Y	1.36	0.36	20	Y	Y	Y		
5/8" - 13/16" GIA	3/4"	Clear Insul	0.47	0.52	0.54	43					2.67	0.36	11				
	3/4"	Insul Low-E	0.34	0.28	0.47	53			Y		1.93	0.36	14				
	3/4"	Insul Low E w/Argon	0.31	0.28	0.47	56		Y	Y		1.76	0.36	17	Y			
	3/4"	Zo-e-shield 5	0.34	0.19	0.43	54			Y	Y	1.93	0.36	9				
	3/4"	Zo-e-shield 5 w/ Argon	0.30	0.19	0.43	57	Y	Y	Y	Y	1.70	0.36	13	Y			
	3/4"	Zo-e-shield 5 Extreme	0.29	0.18	0.38	43	Y	Y	Y	Y	1.65	0.36	14	Y			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	0.27	0.17	0.38	46	Y	Y	Y	Y	1.53	0.36	16	Y	Y		
	3/4"	Zo-e-shield 6	0.36	0.19	0.42	50				Y	2.04	0.36	6				
	3/4"	Zo-e-shield 6 w/ Argon	0.32	0.19	0.42	54		Y	Y	Y	1.82	0.36	11	Y			
	1"	Zo-e-shield 7 (Triple Glazed)	0.29	0.17	0.33	61	Y	Y	Y	Y	1.65	0.36	14	Y			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	0.25	0.17	0.33	64	Y	Y	Y	Y	1.42	0.36	19	Y	Y	Y		
Over 7/8" GIA or SDL	3/4"	Clear Insul	0.47	0.46	0.48	43					2.67	0.36	8				
	3/4"	Insul Low-E	0.34	0.25	0.42	53			Y	Y	1.93	0.36	12				
	3/4"	Insul Low E w/Argon	0.31	0.25	0.42	56		Y	Y	Y	1.76	0.36	16	Y			
	3/4"	Zo-e-shield 5	0.34	0.17	0.38	54			Y	Y	1.93	0.36	7				
	3/4"	Zo-e-shield 5 w/ Argon	0.30	0.17	0.38	57	Y	Y	Y	Y	1.70	0.36	12	Y			
	3/4"	Zo-e-shield 5 Extreme	0.29	0.16	0.34	43	Y	Y	Y	Y	1.65	0.36	13	Y			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	0.27	0.16	0.34	46	Y	Y	Y	Y	1.53	0.36	15	Y	Y		
	3/4"	Zo-e-shield 6	0.37	0.17	0.37	50				Y	2.10	0.36	4				
	3/4"	Zo-e-shield 6 w/ Argon	0.33	0.17	0.37	54			Y	Y	1.87	0.36	9				
	1"	Zo-e-shield 7 (Triple Glazed)	0.29	0.15	0.29	61	Y	Y	Y	Y	1.65	0.36	12	Y			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	0.25	0.15	0.29	64	Y	Y	Y	Y	1.42	0.36	17	Y	Y	Y		

^a Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100-04.

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