

Thermal Performance Data

Signature Double Hung Windows (8122)

WEATHER SHIELD.


WINDOWS & DOORS

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/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-319-00001-00001	0.47	0.58	0.61	43					2.67	0.6	0.25	15			
	3/4"	Insul Low-E	WEA-N-319-00002-00001	0.34	0.31	0.53	53					1.93	0.6	0.25	15			
	3/4"	Insul Low E w/Argon	WEA-N-319-00003-00001	0.30	0.31	0.53	56		Y			1.70	0.6	0.25	20			
	3/4"	Bronze Low E	WEA-N-319-00002-00011	0.34	0.30	0.40	53					1.93	0.6	0.25	15			
	3/4"	Bronze Low E w/Argon	WEA-N-319-00003-00011	0.30	0.30	0.40	56		Y			1.70	0.6	0.25	20			
	3/4"	Insul Low-E 240	WEA-N-319-00012-00001	0.34	0.19	0.30	53				Y	1.93	0.6	0.25	8			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00013-00001	0.31	0.19	0.30	56				Y	1.76	0.6	0.25	12			
	3/4"	Zo-e-shield 5	WEA-N-319-00004-00001	0.33	0.21	0.48	53				Y	1.87	0.6	0.25	11			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00005-00001	0.30	0.21	0.48	56		Y	Y	Y	1.70	0.6	0.25	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00006-00001	0.28	0.20	0.47	42		Y	Y	Y	1.59	0.6	0.25	16	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00099-00001	0.26	0.20	0.47	48	Y	Y	Y	Y	1.48	0.6	0.25	19	Y		
	3/4"	Insul Low-E 180	WEA-N-319-00008-00001	0.34	0.51	0.59	52					1.93	0.6	0.25	27	Y		
	3/4"	Insul Low E 180 w/Argon	WEA-N-319-00009-00001	0.31	0.51	0.59	56					1.76	0.6	0.25	30	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-319-00022-00001	0.35	0.21	0.47	51				Y	1.99	0.6	0.25	8			
3/4"	Zo-e-shield 6 w/ Argon	WEA-N-319-00024-00001	0.30	0.20	0.47	54		Y	Y	Y	1.70	0.6	0.25	14				
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-319-00001-00002	0.47	0.52	0.54	43					2.67	0.6	0.25	11			
	3/4"	Insul Low-E	WEA-N-319-00002-00002	0.34	0.28	0.47	53					1.93	0.6	0.25	13			
	3/4"	Insul Low E w/Argon	WEA-N-319-00003-00002	0.30	0.28	0.47	56		Y			1.70	0.6	0.25	18			
	3/4"	Bronze Low E	WEA-N-319-00002-00012	0.34	0.27	0.35	53					1.93	0.6	0.25	13			
	3/4"	Bronze Low E w/Argon	WEA-N-319-00003-00012	0.30	0.27	0.35	56		Y			1.70	0.6	0.25	18			
	3/4"	Insul Low-E 240	WEA-N-319-00012-00002	0.34	0.18	0.26	53				Y	1.93	0.6	0.25	8			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00013-00002	0.31	0.17	0.26	56				Y	1.76	0.6	0.25	11			
	3/4"	Zo-e-shield 5	WEA-N-319-00004-00002	0.33	0.19	0.43	53				Y	1.87	0.6	0.25	10			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00005-00002	0.30	0.19	0.43	56		Y	Y	Y	1.70	0.6	0.25	13			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00006-00002	0.28	0.18	0.42	42		Y	Y	Y	1.59	0.6	0.25	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00099-00002	0.26	0.18	0.42	48	Y	Y	Y	Y	1.48	0.6	0.25	17	Y		
	3/4"	Insul Low-E 180	WEA-N-319-00008-00002	0.34	0.46	0.52	52					1.93	0.6	0.25	24			
	3/4"	Insul Low E 180 w/Argon	WEA-N-319-00009-00002	0.31	0.46	0.52	56					1.76	0.6	0.25	28	Y		
	3/4"	Zo-e-shield 6	WEA-N-319-00023-00001	0.36	0.19	0.42	51				Y	2.04	0.6	0.25	6			
3/4"	Zo-e-shield 6 w/ Argon	WEA-N-319-00025-00001	0.32	0.19	0.42	54				Y	1.82	0.6	0.25	11				
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-319-00001-00003	0.47	0.46	0.48	43					2.67	0.6	0.25	8			
	3/4"	Insul Low-E	WEA-N-319-00002-00003	0.34	0.25	0.42	53				Y	1.93	0.6	0.25	12			
	3/4"	Insul Low E w/Argon	WEA-N-319-00003-00003	0.30	0.25	0.42	56		Y	Y	Y	1.70	0.6	0.25	17			
	3/4"	Bronze Low E	WEA-N-319-00002-00013	0.34	0.24	0.31	53				Y	1.93	0.6	0.25	11			
	3/4"	Bronze Low E w/Argon	WEA-N-319-00003-00013	0.30	0.24	0.31	56		Y	Y	Y	1.70	0.6	0.25	16			
	3/4"	Insul Low-E 240	WEA-N-319-00012-00003	0.34	0.16	0.23	53				Y	1.93	0.6	0.25	6			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-319-00013-00003	0.31	0.15	0.23	56				Y	1.76	0.6	0.25	10			
	3/4"	Zo-e-shield 5	WEA-N-319-00004-00003	0.33	0.17	0.37	53				Y	1.87	0.6	0.25	8			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-319-00005-00003	0.30	0.17	0.37	56		Y	Y	Y	1.70	0.6	0.25	12			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-319-00006-00003	0.28	0.17	0.37	42		Y	Y	Y	1.59	0.6	0.25	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-319-00099-00003	0.26	0.16	0.37	48	Y	Y	Y	Y	1.48	0.6	0.25	16	Y		
	3/4"	Insul Low-E 180	WEA-N-319-00008-00003	0.34	0.40	0.46	52					1.93	0.6	0.25	20			
	3/4"	Insul Low E 180 w/Argon	WEA-N-319-00009-00003	0.31	0.41	0.46	56					1.76	0.6	0.25	25			
	3/4"	Zo-e-shield 6	WEA-N-319-00023-00002	0.36	0.17	0.37	51				Y	2.04	0.6	0.25	5			
3/4"	Zo-e-shield 6 w/ Argon	WEA-N-319-00025-00002	0.32	0.17	0.37	54				Y	1.82	0.6	0.25	9				

^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.

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

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US Qualification Criteria	Climate Zone	U-Factor	*SHGC	
 <p>As of January 2016</p>	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