

# Thermal Performance Data

## Contemporary Push Out Casement Windows (8213)

# WEATHER SHIELD.


## WINDOWS & DOORS

ENERGY PERFORMANCE DATA								CANADIAN ENERGY PERFORMANCE DATA										
NFRC Total Unit Calculations <sup>a</sup>								ENERGY STAR										
Grille Option	Glazing thickness	Glazing Option <sup>b</sup>	CPD #	U Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 6.0				J-Value (metric)	Maximum Air Leakage L/s/m <sup>2</sup>	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-292-00149-00001	0.45	0.53	0.55	45					2.56	0.6	0.63	13			
	3/4"	Insul Low-E	WEA-N-292-00159-00001	0.33	0.29	0.48	59					1.87	0.6	0.63	15			
	3/4"	Insul Low E w/Argon	WEA-N-292-00169-00001	0.30	0.28	0.48	62		Y			1.70	0.6	0.10	19			
	3/4"	Bronze Low E	WEA-N-292-00159-00011	0.33	0.27	0.36	59					1.87	0.6	0.63	13			
	3/4"	Bronze Low E w/Argon	WEA-N-292-00169-00011	0.30	0.27	0.36	62		Y			1.70	0.6	0.10	18			
	3/4"	Insul Low-E 240	WEA-N-292-00261-00001	0.33	0.18	0.27	59				Y	1.87	0.6	0.10	9			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-292-00291-00001	0.30	0.18	0.27	62		Y	Y	Y	1.70	0.6	0.10	13			
	3/4"	Zo-e-shield 5	WEA-N-292-00179-00001	0.33	0.19	0.43	60				Y	1.87	0.6	0.10	10			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-292-00215-00001	0.30	0.19	0.43	63		Y	Y	Y	1.70	0.6	0.10	14			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-292-00187-00001	0.28	0.19	0.42	47		Y	Y	Y	1.59	0.6	0.10	16			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-292-00223-00001	0.26	0.19	0.42	51	Y	Y	Y	Y	1.48	0.6	0.10	18	Y		
	3/4"	Insul Low-E 180	WEA-N-292-00251-00001	0.34	0.46	0.53	59					1.93	0.6	0.10	24			
	3/4"	Insul Low E 180 w/Argon	WEA-N-292-00281-00001	0.31	0.47	0.53	62					1.76	0.6	0.10	28	Y		
	1"	Zo-e-shield 6	WEA-N-292-00198-00001	0.32	0.19	0.42	63				Y	1.82	0.6	0.10	11			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-292-00234-00001	0.29	0.19	0.42	66		Y	Y	Y	1.65	0.6	0.10	15			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-292-00439-00001	0.27	0.18	0.35	67	Y	Y	Y	Y	1.53	0.6	0.10	17	Y		
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-292-00441-00001	0.24	0.17	0.35	69	Y	Y	Y	Y	1.36	0.6	0.10	20	Y			
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-292-00149-00002	0.45	0.48	0.50	45					2.56	0.6	0.63	10			
	3/4"	Insul Low-E	WEA-N-292-00159-00002	0.33	0.26	0.43	59					1.87	0.6	0.63	13			
	3/4"	Insul Low E w/Argon	WEA-N-292-00169-00002	0.30	0.26	0.43	62		Y			1.70	0.6	0.10	18			
	3/4"	Bronze Low E	WEA-N-292-00159-00012	0.33	0.25	0.32	59				Y	1.87	0.6	0.63	12			
	3/4"	Bronze Low E w/Argon	WEA-N-292-00169-00012	0.30	0.25	0.32	62		Y	Y	Y	1.70	0.6	0.10	17			
	3/4"	Insul Low-E 240	WEA-N-292-00261-00002	0.33	0.17	0.24	59				Y	1.87	0.6	0.10	9			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-292-00291-00002	0.30	0.16	0.24	62		Y	Y	Y	1.70	0.6	0.10	12			
	3/4"	Zo-e-shield 5	WEA-N-292-00179-00002	0.33	0.18	0.39	60				Y	1.87	0.6	0.10	9			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-292-00215-00002	0.30	0.17	0.39	63		Y	Y	Y	1.70	0.6	0.10	12			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-292-00187-00002	0.28	0.17	0.38	47		Y	Y	Y	1.59	0.6	0.10	15			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-292-00223-00002	0.26	0.17	0.38	51	Y	Y	Y	Y	1.48	0.6	0.10	17	Y		
	3/4"	Insul Low-E 180	WEA-N-292-00251-00002	0.34	0.42	0.48	59					1.93	0.6	0.10	22			
	3/4"	Insul Low E 180 w/Argon	WEA-N-292-00281-00002	0.31	0.42	0.48	62					1.76	0.6	0.10	26	Y		
	1"	Zo-e-shield 6	WEA-N-292-00198-00002	0.32	0.17	0.38	63				Y	1.82	0.6	0.10	10			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-292-00234-00002	0.29	0.17	0.38	66		Y	Y	Y	1.65	0.6	0.10	13			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-292-00440-00001	0.28	0.16	0.31	67		Y	Y	Y	1.59	0.6	0.10	14			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-292-00442-00001	0.24	0.16	0.31	69	Y	Y	Y	Y	1.36	0.6	0.10	19	Y			
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-292-00149-00003	0.45	0.43	0.45	45					2.56	0.6	0.63	8			
	3/4"	Insul Low-E	WEA-N-292-00159-00003	0.33	0.24	0.39	59				Y	1.87	0.6	0.63	12			
	3/4"	Insul Low E w/Argon	WEA-N-292-00169-00003	0.30	0.24	0.39	62		Y	Y	Y	1.70	0.6	0.10	16			
	3/4"	Bronze Low E	WEA-N-292-00159-00013	0.33	0.23	0.29	59				Y	1.87	0.6	0.63	11			
	3/4"	Bronze Low E w/Argon	WEA-N-292-00169-00013	0.30	0.22	0.29	62		Y	Y	Y	1.70	0.6	0.10	15			
	3/4"	Insul Low-E 240	WEA-N-292-00261-00003	0.33	0.15	0.22	59				Y	1.87	0.6	0.10	8			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-292-00291-00003	0.30	0.15	0.22	62		Y	Y	Y	1.70	0.6	0.10	11			
	3/4"	Zo-e-shield 5	WEA-N-292-00179-00003	0.33	0.16	0.35	60				Y	1.87	0.6	0.10	8			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-292-00215-00003	0.30	0.16	0.35	63		Y	Y	Y	1.70	0.6	0.10	12			
	3/4"	Zo-e-shield 5 Extreme	WEA-N-292-00187-00003	0.28	0.16	0.34	47		Y	Y	Y	1.59	0.6	0.10	14			
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-292-00223-00003	0.26	0.16	0.34	51	Y	Y	Y	Y	1.48	0.6	0.10	17	Y		
	3/4"	Insul Low-E 180	WEA-N-292-00251-00003	0.34	0.38	0.43	59					1.93	0.6	0.10	19			
	3/4"	Insul Low E 180 w/Argon	WEA-N-292-00281-00003	0.31	0.38	0.43	62					1.76	0.6	0.10	23			
	1"	Zo-e-shield 6	WEA-N-292-00198-00003	0.32	0.16	0.34	63				Y	1.82	0.6	0.10	9			
	1"	Zo-e-shield 6 w/ Argon	WEA-N-292-00234-00003	0.29	0.16	0.34	66		Y	Y	Y	1.65	0.6	0.10	13			
	1"	Zo-e-shield 7 (Triple Glazed)	WEA-N-292-00440-00002	0.28	0.15	0.28	67		Y	Y	Y	1.59	0.6	0.10	14			
1"	Zo-e-shield 7 w/ Argon (Triple Glazed)	WEA-N-292-00442-00002	0.24	0.15	0.28	69	Y	Y	Y	Y	1.36	0.6	0.10	19	Y			

<sup>a</sup> 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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<sup>b</sup> 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/ft<sup>2</sup>