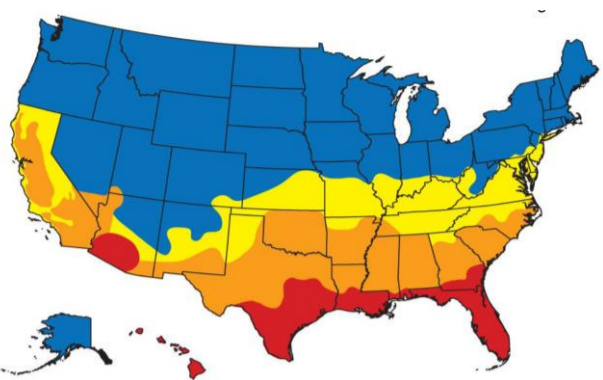


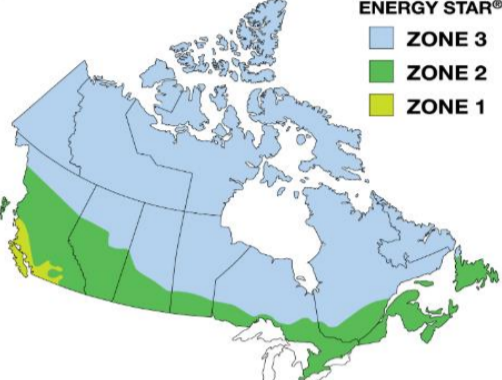
# Thermal Performance Data

Signature Direct-Set Door Transom (830)

**WEATHER SHIELD.**

**WINDOWS & DOORS**

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

Canadian Qualification Criteria	Climate Zone	U-Value	or	Energy Rating
 <p>As of February 2015</p>	Zone 1	$\leq 1.60$		$\geq 25$
	Zone 2	$\leq 1.40$		$\geq 29$
	Zone 3	$\leq 1.20$		$\geq 34$
	Air Leakage $\leq 0.3$ cfm/ft <sup>2</sup>			

## U-Value

A measurement of how much energy a material conducts. The lower the U-Value, the greater the insulating effect.

## Solar Heat Gain Coefficient (SHGC)

Measures how well a window or door prevents heat from passing through it. The lower a window or door's SHGC, the less heat it allows to pass through it.

## Visible Light Transmittance

The amount of light in the visible portion of the spectrum that passes through a glazing material.

## Condensation Resistance Rating

Measures how well a window resists the formation of condensation on the inside surface. The higher the number the better resistance to condensation.

## Energy Rating

A value demonstrating the balance between U-Value, SHGC and air leakage. The higher the number, the more efficient the product.

## R-Value

A measurement of how much a material resists heat transfer.

A higher R-Value means a greater insulating effect and a lower rate of heat flow out of the home.

While **R-value** measures resistance to heat transfer, **U-value** measures the rate of heat transfer.

In simple terms, **U-value** is the mathematical reciprocal of **R-value**; that is, **U = 1/R and R = 1/U**.

<sup>a</sup> Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100, NFRC 200, and NFRC 500.

<sup>b</sup> Published values reflect 3mm/3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA								ENERGY STAR		CANADIAN ENERGY PERFORMANCE DATA				ENERGY STAR				
Signature Direct-Set Door Transom (830)								US ENERGY STAR V 6.0						CANADA ENERGY STAR v 4.1				
Grille Option	Glazing thickness	aNFRC Total Unit Calculations bGlazing Option	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-332-00001-00001	0.48	0.70	0.74	42					2.73	0.6	0.05	21			
	3/4"	Insul Low-E	WEA-N-332-00002-00001	0.32	0.38	0.65	53					1.82	0.6	0.05	22			
	3/4"	Insul Low E w/Argon	WEA-N-332-00010-00001	0.28	0.37	0.65	57	Y	Y			1.59	0.6	0.05	26	Y		
	3/4"	Passive Solar	WEA-N-332-00005-00001	0.33	0.62	0.72	53					1.87	0.6	0.05	35	Y	Y	Y
	3/4"	Passive Solar w/Argon	WEA-N-332-00013-00001	0.29	0.62	0.72	56	Y				1.65	0.6	0.05	40	Y	Y	Y
	3/4"	Zo-e-shield 5	WEA-N-332-00003-00001	0.31	0.25	0.59	54				Y	1.76	0.6	0.05	16			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-332-00011-00001	0.27	0.25	0.59	57	Y	Y	Y	Y	1.53	0.6	0.05	21	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-332-00004-00001	0.25	0.24	0.57	42	Y	Y	Y	Y	1.42	0.6	0.05	23	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-332-00012-00001	0.22	0.24	0.57	46	Y	Y	Y	Y	1.25	0.6	0.05	26	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-332-00083-00001	0.31	0.25	0.58	54				Y	1.76	0.6	0.05	16			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-332-00089-00001	0.27	0.24	0.58	57	Y	Y	Y	Y	1.53	0.6	0.05	20	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-332-00094-00001	0.31	0.24	0.57	55				Y	1.76	0.6	0.05	15			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-332-00096-00001	0.27	0.24	0.57	58	Y	Y	Y	Y	1.53	0.6	0.05	20	Y		
	3/4"	Insul Low-E 240	WEA-N-332-00007-00001	0.32	0.23	0.36	53				Y	1.82	0.6	0.05	13			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-332-00015-00001	0.28	0.23	0.36	56		Y	Y	Y	1.59	0.6	0.05	18	Y		
	3/4"	Insul Low-E 340	WEA-N-332-00008-00001	0.31	0.17	0.35	54				Y	1.76	0.6	0.05	11			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-332-00016-00001	0.27	0.16	0.35	57	Y	Y	Y	Y	1.53	0.6	0.05	16			
	3/4"	Bronze Low E	WEA-N-332-00002-00011	0.32	0.36	0.49	53					1.82	0.6	0.05	21			
3/4"	Bronze Low E w/Argon	WEA-N-332-00010-00011	0.28	0.36	0.49	57	Y	Y			1.59	0.6	0.05	26	Y			
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-332-00001-00002	0.48	0.64	0.67	42					2.73	0.6	0.05	17			
	3/4"	Insul Low-E	WEA-N-332-00002-00002	0.32	0.34	0.58	53					1.82	0.6	0.05	20			
	3/4"	Insul Low E w/Argon	WEA-N-332-00010-00002	0.28	0.34	0.58	57	Y	Y			1.59	0.6	0.05	25	Y		
	3/4"	Passive Solar	WEA-N-332-00005-00002	0.33	0.56	0.64	53					1.87	0.6	0.05	31	Y	Y	
	3/4"	Passive Solar w/Argon	WEA-N-332-00013-00002	0.29	0.56	0.64	56	Y				1.65	0.6	0.05	36	Y	Y	Y
	3/4"	Zo-e-shield 5	WEA-N-332-00003-00002	0.31	0.23	0.53	54				Y	1.76	0.6	0.05	15			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-332-00011-00002	0.27	0.22	0.53	57	Y	Y	Y	Y	1.53	0.6	0.05	19	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-332-00004-00002	0.25	0.22	0.51	42	Y	Y	Y	Y	1.42	0.6	0.05	22	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-332-00012-00002	0.22	0.22	0.51	46	Y	Y	Y	Y	1.25	0.6	0.05	25	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-332-00083-00002	0.31	0.22	0.52	54				Y	1.76	0.6	0.05	14			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-332-00089-00002	0.27	0.22	0.52	57	Y	Y	Y	Y	1.53	0.6	0.05	19	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-332-00094-00002	0.31	0.22	0.51	55				Y	1.76	0.6	0.05	14			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-332-00096-00002	0.27	0.22	0.51	58	Y	Y	Y	Y	1.53	0.6	0.05	19	Y		
	3/4"	Insul Low-E 240	WEA-N-332-00007-00002	0.32	0.21	0.33	53				Y	1.82	0.6	0.05	12			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-332-00015-00002	0.28	0.21	0.33	56		Y	Y	Y	1.59	0.6	0.05	17	Y		
	3/4"	Insul Low-E 340	WEA-N-332-00008-00002	0.31	0.15	0.32	54				Y	1.76	0.6	0.05	10			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-332-00016-00002	0.27	0.15	0.32	57	Y	Y	Y	Y	1.53	0.6	0.05	15			
	3/4"	Bronze Low E	WEA-N-332-00002-00012	0.32	0.33	0.44	53					1.82	0.6	0.05	19			
3/4"	Bronze Low E w/Argon	WEA-N-332-00010-00012	0.28	0.32	0.44	57	Y	Y			1.59	0.6	0.05	24	Y			
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-332-00001-00003	0.48	0.57	0.60	42					2.73	0.6	0.05	13			
	3/4"	Insul Low-E	WEA-N-332-00002-00003	0.32	0.31	0.52	53					1.82	0.6	0.05	18			
	3/4"	Insul Low E w/Argon	WEA-N-332-00010-00003	0.28	0.31	0.52	57		Y			1.59	0.6	0.05	23	Y		
	3/4"	Passive Solar	WEA-N-332-00005-00003	0.33	0.50	0.58	53					1.87	0.6	0.05	28	Y		
	3/4"	Passive Solar w/Argon	WEA-N-332-00013-00003	0.29	0.50	0.58	56	Y				1.65	0.6	0.05	33	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-332-00003-00003	0.31	0.21	0.47	54				Y	1.76	0.6	0.05	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-332-00011-00003	0.27	0.20	0.47	57	Y	Y	Y	Y	1.53	0.6	0.05	18	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-332-00004-00003	0.25	0.20	0.46	42	Y	Y	Y	Y	1.42	0.6	0.05	20	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-332-00012-00003	0.22	0.20	0.46	46	Y	Y	Y	Y	1.25	0.6	0.05	24	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-332-00083-00003	0.31	0.20	0.46	54				Y	1.76	0.6	0.05	13			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-332-00089-00003	0.27	0.20	0.46	57	Y	Y	Y	Y	1.53	0.6	0.05	18	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-332-00094-00003	0.31	0.20	0.46	55				Y	1.76	0.6	0.05	13			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-332-00096-00003	0.27	0.20	0.46	58	Y	Y	Y	Y	1.53	0.6	0.05	18	Y		
	3/4"	Insul Low-E 240	WEA-N-332-00007-00003	0.32	0.19	0.29	53				Y	1.82	0.6	0.05	11			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-332-00015-00003	0.28	0.19	0.29	56		Y	Y	Y	1.59	0.6	0.05	16	Y		
	3/4"	Insul Low-E 340	WEA-N-332-00008-00003	0.31	0.14	0.28	54				Y	1.76	0.6	0.05	9			
	3/4"	Insul Low-E 340 w/Argon	WEA-N-332-00016-00003	0.27	0.14	0.28	57	Y	Y	Y	Y	1.53	0.6	0.05	14			
	3/4"	Bronze Low E	WEA-N-332-00002-00013	0.32	0.29	0.39	53					1.82	0.6	0.05	17			
3/4"	Bronze Low E w/Argon	WEA-N-332-00010-00013	0.28	0.29	0.39	57		Y			1.59	0.6	0.05	22	Y			