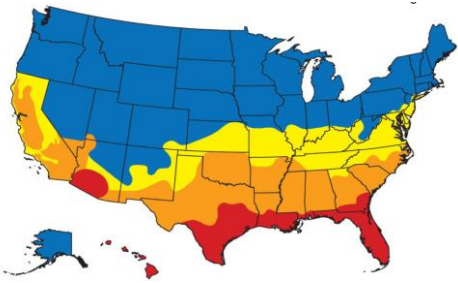
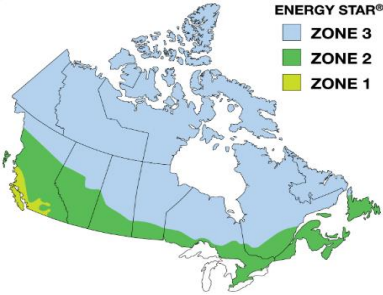


# Thermal Performance Data

Premium Wood Double Hung Transom Windows (6121)

**WEATHER SHIELD.**  
WINDOWS & DOORS

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

Canadian Qualification Criteria	Climate Zone	U-Value	or	Energy Rating
 <p>ENERGY STAR® ZONE 3 ZONE 2 ZONE 1</p> <p>As of February 2015</p>	Zone 1	<=1.60		>=25
	Zone 2	<=1.40		>=29
	Zone 3	<=1.20		>=34
	Air Leakage <= 0.3 cfm/ft2			

## 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														CANADIAN ENERGY PERFORMANCE DATA		ENERGY STAR			
Premium Wood Double Hung Transom Windows (6121)														US ENERGY STAR V 6.0		CANADA ENERGY STAR v 4.1			
Grille Option	Glazing thickness	a)NFRG Total Unit Calculations b)Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	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-330-00001-00001	0.44	0.60	0.63	45					2.50	0.6	0.02	20				
	3/4"	Insul Low-E	WEA-N-330-00002-00001	0.30	0.32	0.55	56		Y			1.70	0.6	0.02	21				
	3/4"	Insul Low E w/Argon	WEA-N-330-00010-00001	0.27	0.32	0.55	60	Y	Y			1.53	0.6	0.02	25	Y			
	3/4"	Passive Solar	WEA-N-330-00005-00001	0.31	0.52	0.61	56					1.76	0.6	0.02	31	Y	Y		
	3/4"	Passive Solar w/Argon	WEA-N-330-00013-00001	0.28	0.53	0.61	59	Y				1.59	0.6	0.02	36	Y	Y	Y	
	3/4"	Passive Solar Extreme	WEA-N-330-00006-00001	0.26	0.48	0.59	43	Y				1.48	0.6	0.02	35	Y	Y	Y	
	3/4"	Passive Solar Extreme w/Argon	WEA-N-330-00014-00001	0.24	0.48	0.59	47	Y				1.36	0.6	0.02	38	Y	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-330-00003-00001	0.30	0.21	0.49	57		Y	Y	Y		1.70	0.6	0.02	15			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-330-00011-00001	0.26	0.21	0.49	60	Y	Y	Y	Y		1.48	0.6	0.02	20	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-330-00004-00001	0.25	0.21	0.48	45	Y	Y	Y	Y		1.42	0.6	0.02	21	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-330-00012-00001	0.23	0.21	0.48	48	Y	Y	Y	Y		1.31	0.6	0.02	23	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-330-00051-00001	0.30	0.21	0.49	58		Y	Y	Y		1.70	0.6	0.02	15			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-330-00059-00001	0.27	0.21	0.49	61	Y	Y	Y	Y		1.53	0.6	0.02	19	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-330-00056-00001	0.30	0.21	0.48	58		Y	Y	Y		1.70	0.6	0.02	15			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-330-00064-00001	0.26	0.21	0.48	61	Y	Y	Y	Y		1.48	0.6	0.02	20	Y		
	3/4"	Zo-e-shield 7	WEA-N-330-00033-00001	0.22	0.19	0.39	48	Y	Y	Y	Y		1.25	0.6	0.02	24	Y	Y	
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-330-00037-00001	0.19	0.19	0.39	48	Y	Y	Y	Y		1.08	0.6	0.02	27	Y	Y	Y
	3/4"	Insul Low-E 240	WEA-N-330-00007-00001	0.31	0.20	0.31	56				Y		1.76	0.6	0.02	13			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-330-00015-00001	0.27	0.19	0.31	59	Y	Y	Y	Y		1.53	0.6	0.02	17	Y		
	3/4"	Insul Low-E 340	WEA-N-330-00008-00001	0.30	0.14	0.30	57		Y	Y	Y		1.70	0.6	0.02	11			
3/4"	Insul Low-E 340 w/Argon	WEA-N-330-00016-00001	0.27	0.14	0.30	60	Y	Y	Y	Y		1.53	0.6	0.02	15				
3/4"	Bronze Low E	WEA-N-330-00002-00011	0.30	0.30	0.41	56		Y				1.70	0.6	0.02	20				
3/4"	Bronze Low E w/Argon	WEA-N-330-00010-00011	0.27	0.30	0.41	60	Y	Y				1.53	0.6	0.02	24	Y			
Less Than 1" GIA or SDL	3/4"	Clear Insul	WEA-N-330-00001-00002	0.44	0.53	0.56	45					2.50	0.6	0.02	16				
	3/4"	Insul Low-E	WEA-N-330-00002-00002	0.30	0.29	0.49	56		Y			1.70	0.6	0.02	19				
	3/4"	Insul Low E w/Argon	WEA-N-330-00010-00002	0.27	0.29	0.49	60	Y	Y			1.53	0.6	0.02	23	Y			
	3/4"	Passive Solar	WEA-N-330-00005-00002	0.31	0.47	0.54	56					1.76	0.6	0.02	29	Y			
	3/4"	Passive Solar w/Argon	WEA-N-330-00013-00002	0.28	0.47	0.54	59	Y				1.59	0.6	0.02	32	Y	Y		
	3/4"	Passive Solar Extreme	WEA-N-330-00006-00002	0.26	0.43	0.53	43	Y				1.48	0.6	0.02	32	Y	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-330-00014-00002	0.24	0.43	0.53	47	Y				1.36	0.6	0.02	35	Y	Y	Y	
	3/4"	Zo-e-shield 5	WEA-N-330-00003-00002	0.30	0.19	0.44	57		Y	Y	Y		1.70	0.6	0.02	14			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-330-00011-00002	0.26	0.19	0.44	60	Y	Y	Y	Y		1.48	0.6	0.02	19	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-330-00004-00002	0.25	0.19	0.43	45	Y	Y	Y	Y		1.42	0.6	0.02	20	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-330-00012-00002	0.23	0.19	0.43	48	Y	Y	Y	Y		1.31	0.6	0.02	22	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-330-00051-00002	0.30	0.19	0.43	58		Y	Y	Y		1.70	0.6	0.02	14			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-330-00059-00002	0.27	0.19	0.43	61	Y	Y	Y	Y		1.53	0.6	0.02	17	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-330-00056-00002	0.30	0.19	0.43	58		Y	Y	Y		1.70	0.6	0.02	14			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-330-00064-00002	0.26	0.19	0.43	61	Y	Y	Y	Y		1.48	0.6	0.02	19	Y		
	3/4"	Zo-e-shield 7	WEA-N-330-00034-00001	0.23	0.18	0.35	48	Y	Y	Y	Y		1.31	0.6	0.02	22	Y	Y	
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-330-00038-00001	0.19	0.17	0.35	48	Y	Y	Y	Y		1.08	0.6	0.02	26	Y	Y	Y
	3/4"	Insul Low-E 240	WEA-N-330-00007-00002	0.31	0.18	0.27	56				Y		1.76	0.6	0.02	12			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-330-00015-00002	0.27	0.18	0.27	59	Y	Y	Y	Y		1.53	0.6	0.02	17	Y		
	3/4"	Insul Low-E 340	WEA-N-330-00008-00002	0.30	0.13	0.26	57		Y	Y	Y		1.70	0.6	0.02	10			
3/4"	Insul Low-E 340 w/Argon	WEA-N-330-00016-00002	0.27	0.13	0.26	60	Y	Y	Y	Y		1.53	0.6	0.02	14				
3/4"	Bronze Low E	WEA-N-330-00002-00012	0.30	0.27	0.37	56		Y				1.70	0.6	0.02	18				
3/4"	Bronze Low E w/Argon	WEA-N-330-00010-00012	0.27	0.27	0.37	60	Y	Y				1.53	0.6	0.02	22	Y			
1" Or Over GIA or SDL	3/4"	Clear Insul	WEA-N-330-00001-00003	0.44	0.47	0.50	45					2.50	0.6	0.02	12				
	3/4"	Insul Low-E	WEA-N-330-00002-00003	0.30	0.26	0.43	56		Y			1.70	0.6	0.02	18				
	3/4"	Insul Low E w/Argon	WEA-N-330-00010-00003	0.27	0.26	0.43	60	Y	Y			1.53	0.6	0.02	21	Y			
	3/4"	Passive Solar	WEA-N-330-00005-00003	0.31	0.42	0.48	56					1.76	0.6	0.02	26	Y			
	3/4"	Passive Solar w/Argon	WEA-N-330-00013-00003	0.28	0.42	0.48	59	Y				1.59	0.6	0.02	29	Y	Y		
	3/4"	Passive Solar Extreme	WEA-N-330-00006-00003	0.26	0.38	0.47	43	Y	Y			1.48	0.6	0.02	29	Y	Y		
	3/4"	Passive Solar Extreme w/Argon	WEA-N-330-00014-00003	0.24	0.38	0.47	47	Y	Y			1.36	0.6	0.02	32	Y	Y		
	3/4"	Zo-e-shield 5	WEA-N-330-00003-00003	0.30	0.17	0.39	57		Y	Y	Y		1.70	0.6	0.02	13			
	3/4"	Zo-e-shield 5 w/ Argon	WEA-N-330-00011-00003	0.26	0.17	0.39	60	Y	Y	Y	Y		1.48	0.6	0.02	17	Y		
	3/4"	Zo-e-shield 5 Extreme	WEA-N-330-00004-00003	0.25	0.17	0.38	45	Y	Y	Y	Y		1.42	0.6	0.02	19	Y		
	3/4"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-330-00012-00003	0.23	0.17	0.38	48	Y	Y	Y	Y		1.31	0.6	0.02	21	Y	Y	
	3/4"	Zo-e-shield 6	WEA-N-330-00051-00003	0.30	0.17	0.38	58		Y	Y	Y		1.70	0.6	0.02	13			
	3/4"	Zo-e-shield 6 w/ Argon	WEA-N-330-00059-00003	0.27	0.17	0.38	61	Y	Y	Y	Y		1.53	0.6	0.02	16	Y		
	3/4"	Zo-e SafeGuard Certified	WEA-N-330-00056-00003	0.30	0.17	0.38	58		Y	Y	Y		1.70	0.6	0.02	13			
	3/4"	Zo-e SafeGuard Certified w/ Argon	WEA-N-330-00064-00003	0.26	0.17	0.38	61	Y	Y	Y	Y		1.48	0.6	0.02	17	Y		
	3/4"	Zo-e-shield 7	WEA-N-330-00034-00002	0.23	0.16	0.31	48	Y	Y	Y	Y		1.31	0.6	0.02	21	Y	Y	
	3/4"	Zo-e-shield 7 w/ Argon	WEA-N-330-00038-00002	0.19	0.16	0.31	48	Y	Y	Y	Y		1.08	0.6	0.02	26	Y	Y	Y
	3/4"	Insul Low-E 240	WEA-N-330-00007-00003	0.31	0.16	0.24	56				Y		1.76	0.6	0.02	11			
	3/4"	Insul Low-E 240 w/Argon	WEA-N-330-00015-00003	0.27	0.16	0.24	59	Y	Y	Y	Y		1.53	0.6	0.02	16			
	3/4"	Insul Low-E 340	WEA-N-330-00008-00003	0.30	0.12	0.23	57		Y	Y	Y		1.70	0.6	0.02	10			
3/4"	Insul Low-E 340 w/Argon	WEA-N-330-00016-00003	0.27	0.11	0.23	60	Y	Y	Y	Y		1.53	0.6	0.02	13				
3/4"	Bronze Low E	WEA-N-330-00002-00013	0.30	0.24	0.32	56		Y	Y	Y		1.70	0.6	0.02	17				
3/4"	Bronze Low E w/Argon	WEA-N-330-00010-00013	0.27	0.24	0.32	60	Y	Y	Y	Y		1.53	0.6	0.02	20	Y			