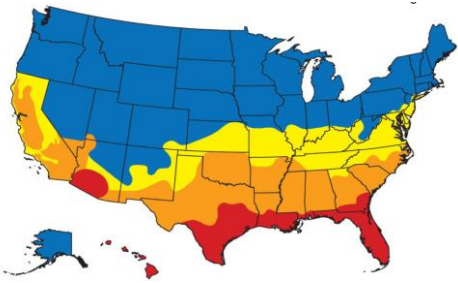
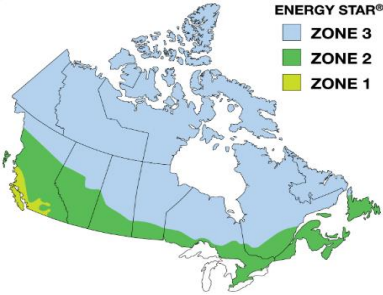


Thermal Performance Data

Weather Shield HR175 Single Hung Windows (6101)

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>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**.

^a 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.

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

ENERGY PERFORMANCE DATA

Weather Shield HR175 Single Hung Windows (6101)



US ENERGY STAR V 6.0

CANADIAN ENERGY PERFORMANCE DATA



CANADA ENERGY STAR v 4.1

Grille Option	Glazing thickness	a)NFRC Total Unit Calculations b)Glazing Option	CPD #	U-Value	Solar Heat Gain Coefficient	Visible Light Transmittance	Condensation Resistance Rating	US ENERGY STAR V 6.0				CANADIAN ENERGY PERFORMANCE DATA						
								N	NC	SC	S	U-Value (metric)	Maximum Air Leakage Ls/m2	Air Infiltration/Exfiltration Average	Energy Rating	1	2	3
No GIA or SDL	5/8"	Clear Insul	WEA-N-230-00373-00001	0.46	0.53	0.55	42					2.61	0.6	0.15	13			
	5/8"	Insul Low-E	WEA-N-230-00375-00001	0.34	0.26	0.47	51					1.93	0.6	0.15	12			
	5/8"	Insul Low E w/Argon	WEA-N-230-00387-00001	0.30	0.26	0.47	55		Y			1.70	0.6	0.15	17			
	5/8"	Passive Solar	WEA-N-230-00212-00001	0.35	0.46	0.53	52					1.99	0.6	0.15	23			
	5/8"	Passive Solar w/Argon	WEA-N-230-00221-00001	0.31	0.46	0.53	56					1.76	0.6	0.15	28	Y		
	5/8"	Zo-e-shield 5	WEA-N-230-00377-00001	0.34	0.19	0.41	51					1.93	0.6	0.15	8			
	5/8"	Zo-e-shield 5 w/ Argon	WEA-N-230-00389-00001	0.30	0.19	0.41	55		Y	Y	Y	1.70	0.6	0.15	13			
	5/8"	Zo-e-shield 5 Extreme	WEA-N-230-00200-00001	0.29	0.19	0.42	41					1.65	0.6	0.15	15			
	5/8"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-230-00207-00001	0.27	0.18	0.42	45	Y	Y	Y	Y	1.53	0.6	0.15	17	Y		
	5/8"	Zo-e-shield 6	WEA-N-230-00202-00001	0.39	0.19	0.42	48					2.21	0.6	0.15	2			
	5/8"	Zo-e-shield 6 w/ Argon	WEA-N-230-00209-00001	0.34	0.19	0.42	53					1.93	0.6	0.15	8			
	5/8"	Zo-e SafeGuard Certified	WEA-N-230-00203-00001	0.38	0.19	0.42	44					2.16	0.6	0.15	3			
	5/8"	Zo-e SafeGuard Certified w/ Argon	WEA-N-230-00210-00001	0.34	0.19	0.42	53					1.93	0.6	0.15	8			
	5/8"	Insul Low-E 240	WEA-N-230-00215-00001	0.34	0.18	0.27	52					1.93	0.6	0.15	8			
	5/8"	Insul Low-E 240 w/Argon	WEA-N-230-00224-00001	0.31	0.17	0.27	56					1.76	0.6	0.15	11			
	5/8"	Insul Low-E 340	WEA-N-230-00218-00001	0.34	0.13	0.26	53					1.93	0.6	0.15	5			
	5/8"	Insul Low-E 340 w/Argon	WEA-N-230-00227-00001	0.30	0.13	0.26	57		Y	Y	Y	1.70	0.6	0.15	10			
	5/8"	Bronze Low E	WEA-N-230-00183-00001	0.34	0.27	0.36	53					1.93	0.6	0.15	13			
5/8"	Bronze Low E w/Argon	WEA-N-230-00192-00001	0.30	0.27	0.36	56		Y			1.70	0.6	0.15	18				
Less Than 1" GIA or SDL	5/8"	Clear Insul	WEA-N-230-00374-00001	0.47	0.47	0.48	42					2.67	0.6	0.15	8			
	5/8"	Insul Low-E	WEA-N-230-00376-00001	0.36	0.24	0.41	51					2.04	0.6	0.15	9			
	5/8"	Insul Low E w/Argon	WEA-N-230-00388-00001	0.32	0.23	0.41	55					1.82	0.6	0.15	13			
	5/8"	Passive Solar	WEA-N-230-00355-00001	0.36	0.41	0.46	52					2.04	0.6	0.15	19			
	5/8"	Passive Solar w/Argon	WEA-N-230-00364-00001	0.32	0.41	0.46	56					1.82	0.6	0.15	24			
	5/8"	Zo-e-shield 5	WEA-N-230-00378-00001	0.36	0.18	0.36	51					2.04	0.6	0.15	5			
	5/8"	Zo-e-shield 5 w/ Argon	WEA-N-230-00390-00001	0.32	0.17	0.36	55					1.82	0.6	0.15	10			
	5/8"	Zo-e-shield 5 Extreme	WEA-N-230-00343-00001	0.30	0.17	0.37	41			Y	Y	1.70	0.6	0.15	12			
	5/8"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-230-00350-00001	0.27	0.16	0.37	45	Y	Y	Y	Y	1.53	0.6	0.15	15			
	5/8"	Zo-e-shield 6	WEA-N-230-00345-00001	0.41	0.17	0.37	48					2.33	0.6	0.15	-2			
	5/8"	Zo-e-shield 6 w/ Argon	WEA-N-230-00352-00001	0.36	0.17	0.37	53					2.04	0.6	0.15	5			
	5/8"	Zo-e SafeGuard Certified	WEA-N-230-00346-00001	0.41	0.17	0.37	44					2.33	0.6	0.15	-2			
	5/8"	Zo-e SafeGuard Certified w/ Argon	WEA-N-230-00353-00001	0.36	0.17	0.37	53					2.04	0.6	0.15	5			
	5/8"	Insul Low-E 240	WEA-N-230-00358-00001	0.36	0.16	0.23	52					2.04	0.6	0.15	4			
	5/8"	Insul Low-E 240 w/Argon	WEA-N-230-00367-00001	0.32	0.16	0.23	56					1.82	0.6	0.15	9			
	5/8"	Insul Low-E 340	WEA-N-230-00361-00001	0.35	0.12	0.23	53					1.99	0.6	0.15	3			
	5/8"	Insul Low-E 340 w/Argon	WEA-N-230-00370-00001	0.31	0.11	0.23	56					1.76	0.6	0.15	8			
	5/8"	Bronze Low E	WEA-N-230-00326-00001	0.35	0.24	0.32	53					1.99	0.6	0.15	10			
5/8"	Bronze Low E w/Argon	WEA-N-230-00335-00001	0.31	0.24	0.32	56					1.76	0.6	0.15	15				
1" Or Over GIA or SDL	5/8"	Clear Insul	WEA-N-230-00374-00002	0.47	0.41	0.42	42					2.67	0.6	0.15	5			
	5/8"	Insul Low-E	WEA-N-230-00376-00002	0.36	0.21	0.36	51					2.04	0.6	0.15	7			
	5/8"	Insul Low E w/Argon	WEA-N-230-00388-00002	0.32	0.21	0.36	55					1.82	0.6	0.15	12			
	5/8"	Passive Solar	WEA-N-230-00355-00002	0.36	0.36	0.41	52					2.04	0.6	0.15	16			
	5/8"	Passive Solar w/Argon	WEA-N-230-00364-00002	0.32	0.36	0.41	56					1.82	0.6	0.15	21			
	5/8"	Zo-e-shield 5	WEA-N-230-00378-00002	0.36	0.16	0.32	51					2.04	0.6	0.15	4			
	5/8"	Zo-e-shield 5 w/ Argon	WEA-N-230-00390-00002	0.32	0.15	0.32	55					1.82	0.6	0.15	9			
	5/8"	Zo-e-shield 5 Extreme	WEA-N-230-00343-00002	0.30	0.15	0.32	41			Y	Y	1.70	0.6	0.15	11			
	5/8"	Zo-e-shield 5 Extreme w/ Argon	WEA-N-230-00350-00002	0.27	0.15	0.32	45	Y	Y	Y	Y	1.53	0.6	0.15	15			
	5/8"	Zo-e-shield 6	WEA-N-230-00345-00002	0.41	0.15	0.33	48					2.33	0.6	0.15	-3			
	5/8"	Zo-e-shield 6 w/ Argon	WEA-N-230-00352-00002	0.36	0.15	0.33	53					2.04	0.6	0.15	4			
	5/8"	Zo-e SafeGuard Certified	WEA-N-230-00346-00002	0.41	0.15	0.33	44					2.33	0.6	0.15	-3			
	5/8"	Zo-e SafeGuard Certified w/ Argon	WEA-N-230-00353-00002	0.36	0.15	0.33	53					2.04	0.6	0.15	4			
	5/8"	Insul Low-E 240	WEA-N-230-00358-00002	0.36	0.14	0.21	52					2.04	0.6	0.15	3			
	5/8"	Insul Low-E 240 w/Argon	WEA-N-230-00367-00002	0.32	0.14	0.21	56					1.82	0.6	0.15	8			
	5/8"	Insul Low-E 340	WEA-N-230-00361-00002	0.35	0.11	0.20	53					1.99	0.6	0.15	2			
	5/8"	Insul Low-E 340 w/Argon	WEA-N-230-00370-00002	0.31	0.10	0.20	56					1.76	0.6	0.15	7			
	5/8"	Bronze Low E	WEA-N-230-00326-00002	0.35	0.21	0.28	53					1.99	0.6	0.15	8			
5/8"	Bronze Low E w/Argon	WEA-N-230-00335-00002	0.31	0.21	0.28	56					1.76	0.6	0.15	13				