Test Data

Ratings conform to ANSI/NFRC 100, 200-2014 & NFRC 500-2014 testing procedures for determining product performance as tested by Intertek-ATI.

U-factor measures temperatures ability to conduct through material. A lower U-factor means a warmer window.

SHGC (Solar Heat Gain Coefficient) measures the amount of FREE solar energy allowed to pass through the glass. In heating dominated climates, a higher SHGC results in 5 - 7% less overall heating and cooling costs.

VT (Visible Transmittance) refers to the amount of visible light that passes through glass. The lower the number, the darker the outside world appears.

CRF (Condensation Resistence Factor) the higher the number, the better the window is at resisting condensation. Notice how our CRF #'s are higher than most? Even those windows with lower U-factors and foam filled frames and sashes aren't as good at protecting against condensation.

SOFT COAT LOW E GLASS is made of low solar gain Low E on the 2nd surface of glass with Argon Gas filling. Science shows it's NOT the best for heating dominated climates. This product will qualify for utility company rebates if available.

HARD COAT LOW E GLASS is high solar gain Low E on the 3rd surface of glass with Argon Gas filling. Science shows it outperforms SOFT COAT LOW E glass in the North.

DOUBLE HARD COAT LOW E GLASS is high solar gain Low E on the 2nd and 3rd surface of glass with Argon Gas filling. This product is equivalent to Energy Star 6.0 requirements as of 01/01/16 and would therefore be eligible for **Federal income tax credits** as well as **utility company rebates** if available.

Type	Style	Double pane soft coat Low E/Argon:				Double pane hard coat Low E/Argon:				Double pane DOUBLE hard coat Low E/Argon:			
		U-factor	SHGC	VT	CRF	U-factor	SHGC	VT	CRF	U-factor	SHGC	VT	CRF
Royal Seal, Split Color and Royal Wood Family of products	Double Hung, Swing Slider & Hopper	0.29	0.27	0.51	57	0.32	0.54	0.55	57	0.30	0.46	0.49	59
	Lift-out Slider	0.28	0.28	0.52	60	0.31	0.56	0.56	58	0.30	0.46	0.50	60
	Casement	0.28	0.26	0.49	63	0.32	0.52	0.53	58	0.29	0.44	0.47	62
	Awning	0.27	0.26	0.49	58	0.32	0.52	0.53	54	0.29	0.44	0.47	58
	Picture Window	0.26	0.30	0.57	61	0.31	0.60	0.62	56	0.30	0.46	0.49	59
	Patio Door	0.28	0.28	0.52	62	0.32	0.57	0.58	57	0.30	0.42	0.45	61
Tech 2	Double Hung & Hopper	0.30	0.28	0.54	56	No certified testing available for Tech 2 & Vinyline products with double pane hard coate Low E / Argon, HOWEVER, the numbers are very similar to those above. Windows made out of vinyl and glass tend to have the same thermal conductivity and solar heat gain numbers as windows made out of the same vinyl and glass.				No certified testing available for Tech 2 & Vinyline products with double pane DOUBLE hard coat Low E / Argon, HOWEVER, the numbers are very similar to those above. Windows made out of vinyl and glass tend to have the same thermal conductivity and solar heat gain numbers as windows made out of the same vinyl and glass.			
	Lift-out Slider	0.30	0.28	0.53	57								
Vinyline	Single hung & hopper	0.30	0.29	0.56	57								
	Lift-out Slider	0.30	0.29	0.55	57								
	Picture Window	0.29	0.30	0.58	59								
Triple pane double soft coat Low E / Argon glass in Royal Seal DOUBLE HUNG:		0.25	0.25	0.41	65	04/27/16							