



# Which high-performance glass is right for your Bainbridge LE Windows?

GLASS SYSTEM	ENERGY EFFICIENCY	SOUND REDUCTION	SECURITY	UV BLOCKING	DETAILS
Solar Ultimate	 Whole-Window U-Factor = 0.16 SHGC = 0.20				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL PLUS LOW-EMISSIONITY COATING</li> <li>2. CLIMATE CONTROL LOW-EMISSIONITY COATING</li> <li>3. KRYPTON GAS BETWEEN GLASS PANES</li> <li>4. SUPER SPACER</li> </ol>
Ultimate	 Whole-Window U-Factor = 0.16 SHGC = 0.27				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL LOW-EMISSIONITY COATING</li> <li>2. KRYPTON GAS BETWEEN GLASS PANES</li> <li>3. SUPER SPACER</li> </ol>
Solar Ultra S	 Whole-Window U-Factor = 0.21 SHGC = 0.20				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL PLUS LOW-EMISSIONITY COATING</li> <li>2. CLIMATE CONTROL LOW-EMISSIONITY COATING</li> <li>3. ARGON GAS BETWEEN GLASS PANES</li> <li>4. SUPER SPACER</li> </ol>
Solar Ultra	 Whole-Window U-Factor = 0.21 SHGC = 0.20				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL PLUS LOW-EMISSIONITY COATING</li> <li>2. CLIMATE CONTROL LOW-EMISSIONITY COATING</li> <li>3. ARGON GAS BETWEEN GLASS PANES</li> <li>4. INTERCEPT STAINLESS STEEL SPACER</li> </ol>
Ultra S	 Whole-Window U-Factor = 0.21 SHGC = 0.27				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL LOW-EMISSIONITY COATING</li> <li>2. ARGON GAS BETWEEN GLASS PANES</li> <li>3. SUPER SPACER</li> </ol>
Ultra	 Whole-Window U-Factor = 0.21 SHGC = 0.27				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL LOW-EMISSIONITY COATING</li> <li>2. ARGON GAS BETWEEN GLASS PANES</li> <li>3. INTERCEPT STAINLESS STEEL SPACER</li> </ol>
Solar Low-E/A	 Whole-Window U-Factor = 0.27 SHGC = 0.21				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL PLUS LOW-EMISSIONITY COATING</li> <li>2. ARGON GAS BETWEEN GLASS PANES</li> <li>3. INTERCEPT STAINLESS STEEL SPACER</li> </ol>
Low-E/A	 Whole-Window U-Factor = 0.27 SHGC = 0.29				 <ol style="list-style-type: none"> <li>1. CLIMATE CONTROL LOW-EMISSIONITY COATING</li> <li>2. ARGON GAS BETWEEN GLASS PANES</li> <li>3. INTERCEPT STAINLESS STEEL SPACER</li> </ol>

Performance:  Excellent  Very Good  Good

All U-Values shown are for single-strength glass systems in Soft-Lite Bainbridge LE Double-Hung Windows with fiberglass reinforcement. Performance will vary with other window operating styles.

Version 5.0  
(2015)

## ENERGY STAR® Qualification Criteria for Residential Windows

### WINDOWS

CLIMATE ZONE	U-FACTOR <sup>1</sup>	SHGC <sup>2</sup>	
Northern	≤ 0.30	Any	Prescriptive
	≥ 0.31	≥ 0.35	Equivalent Energy Performance
	≥ 0.32	≥ 0.40	
North Central	≤ 0.30	≤ 0.40	
South Central	≤ 0.30	≤ 0.25	
Southern	≤ 0.40	≤ 0.25	

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>

<sup>1</sup> Btu/h ft<sup>2</sup>·°F

<sup>2</sup> Solar Heat Gain Coefficient

Version 6.0  
(2016)

## ENERGY STAR® Qualification Criteria for Residential Windows and Doors

### WINDOWS

CLIMATE ZONE	U-FACTOR <sup>1</sup>	SHGC <sup>2</sup>
Northern*	≤ 0.27	Any
	≥ 0.28	≥ 0.32
	≥ 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

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>

<sup>1</sup> Btu/h ft<sup>2</sup>·°F

<sup>2</sup> Solar Heat Gain Coefficient

### DOORS

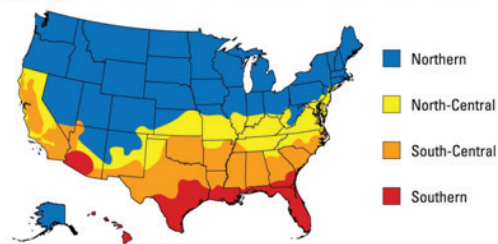
GLAZING LEVEL	U-FACTOR <sup>1</sup>	SHGC <sup>2</sup>
Opaque	≤ 0.17	No Rating
≤ ½-Lite	≤ 0.25	≤ 0.25
> ½-Lite	≤ 0.30	Northern North-Central ≤ 0.40 Southern South-Central ≤ 0.25

Air Leakage for Sliding Doors ≤ 0.3 cfm/ft<sup>2</sup>

Air Leakage for Swinging Doors ≤ 0.5 cfm/ft<sup>2</sup>



## ENERGY STAR® for Windows, Doors, and Skylights CLIMATE ZONE MAP



To carry the ENERGY STAR label, windows must currently meet the Version 6.0 specification (shown bottom left) for the North-Central, South-Central, and/or Southern Climate Zones. Windows may continue to carry the label if they meet the Version 5.0 specification (also shown top left) for the Northern Zone in 2015, but they must meet the Version 6.0 specification for the Northern Zone beginning on January 1, 2016. Doors must meet the Version 6.0 product specification in all climate zones currently.

To qualify for ENERGY STAR, windows may also have NFRC-certified U-Factor and, where applicable, SHGC ratings at levels which meet or exceed the equivalent energy performance criteria specified. These criteria allow windows with energy performance equivalent to the prescriptive criteria to qualify in the Northern Zone. Equivalent performance criteria are not applicable to the North-Central, South-Central, or Southern Zones or to Doors. The equivalent energy performance values for both 2015 and 2016 are shown on the charts on the left.



**U-Value/U-Factor**—The lower the U-Value, the better the window's overall thermal performance. The glass package, the window's materials, and its components all affect the rating.

**Solar Heat Gain Coefficient (SHGC)**—A measurement of how well products block heat caused by sunlight. The rating expressed as a number between 0 and 1. The lower the number, the better.