



## Performance Data Cambridge - Replacement Windows

### Standard Glass Package Thermal Performance - For the North-Central, South-Central, and Southern Climate ENERGY STAR® Zones

Glazing	Window Style	Primary Unit Size	Total Unit U-Value <sup>1</sup>	Visible Light Transmittance <sup>2</sup>		SHGC <sup>5</sup>		Condensation Resistance <sup>6</sup>	ENERGY STAR Certified	
				Grids	No Grids	Grids	No Grids		Yes	No
Low-e glass, low-conductance spacer and argon gas fill.	Double-Hung	<= 48" x 72"	0.29	0.41	0.46	0.18	0.20	58	✓	
	Single-Hung	<= 40" x 72"	0.29	0.41	0.46	0.18	0.20	57	✓	
	Picture	ANY SIZE	0.26	0.45	0.51	0.20	0.22	61	✓	
	Geometric	ANY SIZE	0.25	0.48	0.54	0.21	0.23	63	✓	
	Casement	<= 36" x 72"	0.28	0.38	0.42	0.17	0.18	60	✓	
	Casement Picture	<= 72" x 72"	0.26	0.44	0.50	0.19	0.21	60	✓	
	Awning	<= 60" x 36"	0.29	0.38	0.42	0.17	0.18	56	✓	
	Slider	<= 96" x 60"	0.28	0.39	0.44	0.17	0.19	61	✓	
	Vinyl Sill Patio Door	<= 192" x 96"	0.31	0.39	0.45	0.17	0.20	56		X
Transom/Sidelites	ANY SIZE	0.26	0.50	0.56	0.22	0.24	63	✓		

### Northern Zone Glass Package Thermal Performance - For the Northern Climate ENERGY STAR® Zone

Glazing	Window Style	Primary Unit Size	Total Unit U-Value <sup>1</sup>	Visible Light Transmittance <sup>2</sup>		SHGC <sup>5</sup>		Condensation Resistance <sup>6</sup>	ENERGY STAR® Certified	
				Grids	No Grids	Grids	No Grids		Yes	No
Low-e glass, low-conductance spacer and argon gas fill.	Double-Hung	<= 48" x 72"	0.30	0.48	0.54	0.38	0.43	57	NO GRIDS	GRIDS
	Single-Hung	<= 40" x 72"	0.30	0.48	0.54	0.38	0.42	57	NO GRIDS	GRIDS
	Picture	ANY SIZE	0.27	0.53	0.59	0.41	0.45	61	✓	
	Geometric	ANY SIZE	0.26	0.57	0.63	0.45	0.49	63	✓	
	Casement	<= 36" x 72"	0.29	0.44	0.49	0.35	0.38	59	NO GRIDS	GRIDS
	Casement Picture	<= 72" x 72"	0.27	0.49	0.51	0.41	0.46	60	✓	
	Awning	<= 60" x 36"	0.29	0.44	0.49	0.35	0.39	56	NO GRIDS	GRIDS
	Slider	<= 96" x 60"	0.29	0.46	0.52	0.36	0.40	61	NO GRIDS	GRIDS
	Vinyl Sill Patio Door	<= 192" x 96"	0.32	0.45	0.52	0.35	0.40	56		X
Transom/Sidelites	ANY SIZE	0.27	0.59	0.66	0.46	0.51	62	✓		

All thermal and sound testing is done in accordance with required NFRC sizing.





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### Air, Water and Structural Performance

Window Style	Individual Unit Size	Mulled Unit Size	Test Method	Total Unit Air Infiltration @25MPH	Water (PSF)	Structural Rating	Overall Grade Rating
Double-Hung	48" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.11 CFM	9.82	60	R60
Single-Hung	48" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.09 CFM	9.19	60	R60
Double-Hung Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.06 CFM	7.52	50	R50
Double-Hung Reverse Oriel	48" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.11 CFM	7.52	50	R50
Single-Hung Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.05 CFM	7.52	50	R50
Single-Hung Reverse Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.03 CFM	6.06	40	R40
Twin Double-Hung	52" x 80"	104" x 80"	AAMA/WDMA/CSA 101/IS2/A440-05	0.11 CFM	7.52	40	R40
Triple Double-Hung	52" x 80"	157" x 80"	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.11 CFM	7.52	40	R40
Picture	96" x 48"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.01 CFM	12.12	70	R70
2-Lite Slider	96" x 48"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.10 CFM	9.20	50	R50
3-Lite Slider 1/4-1/2-1/4	138" x 60"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.08 CFM	8.36	25	R25
3-Lite Slider 1/3-1/3-1/3	138" x 60"	—	AAMA/WDMA/CSA 101/I.S.2/A440-05	0.11 CFM	8.36	30	R30

### Sound Transmission

Window Style	Unit Size	IG Unit	Glazing	STC	OITC
Double-Hung	47-1/4" x 59"	15/16"	1/8" annealed, 1/2" spacer, 1/8" annealed	27	22
Single-Hung	47-1/4" x 59"	15/16"	1/8" annealed, 1/2" spacer, 1/8" annealed	27	22
Picture	47-1/4" x 59"	15/16"	1/8" annealed, 1/2" spacer, 1/8" annealed	31	25
Slider	59" x 47-1/4"	15/16"	1/8" annealed, 1/2" spacer, 1/8" annealed	27	22

**Commercial ratings also available.**

STC rating was calculated in accordance with ASTM E 413.

<sup>1</sup> Windows tested per NFRC 100. Data applies to double-pane insulated glass units using a double-strength glass with a 1/2" airspace.  
**Data applies to:** \*Cambridge double-pane insulated glass units using double-strength glass with 11/16" air space.

<sup>2</sup> Tested using GED's Intercept® ULTRA low-conductance warm-edge spacer system. Calculations provided by Lawrence Berkeley Laboratory Window 7.4 and Optics5 software based on a 3/4" IG unit for Edgemont windows and 15/16" IGU for Cambridge windows.

<sup>3</sup> Daylight Transmittance measures the performance of the glass only.

<sup>4</sup> International Standards Organization Damage Weighted Transmission Rating (Tdw-ISO) calculations performed by Lawrence Berkeley Laboratory 7.4 Windows software and is weighted using recommended International Commission on Illumination (CIE) standards.

<sup>5</sup> Solar Heat Gain Coefficient (SHGC) tested in accordance with NFRC 200. This value varies by style, glazing system and grids.

<sup>6</sup> Condensation Resistance is tested in accordance with NFRC 500.

