



Performance Data Cambridge - Replacement Windows

Standard Glass Package Thermal Performance

Glazing	Window Style	Total Unit U-Value ¹	Visible Light Transmittance ²		Daylight Transmittance ³	Tdw-ISO ⁴	SHGC ⁵		Condensation Resistance ⁶	
			Grids	No Grids			Grids	No Grids		
Low-e glass, low-conductance spacer and argon gas fill.	Double-Hung	47-1/4" x 59"	0.29	0.41	0.46	64%	0.559	0.18	0.20	56
	Single-Hung	47-1/4" x 59"	0.28	0.41	0.46	64%	0.559	0.18	0.20	56
	Picture	47-1/4" x 59"	0.26	0.45	0.51	64%	0.559	0.20	0.22	61
	Slider	59" x 47-1/4"	0.28	0.41	0.46	64%	0.559	0.18	0.20	60

Northern Zone Glass Package Thermal Performance

Glazing	Window Style	Total Unit U-Value ¹	Visible Light Transmittance ²		Daylight Transmittance ³	Tdw-ISO ⁴	SHGC ⁵		Condensation Resistance ⁶	
			Grids	No Grids			Grids	No Grids		
Low-e glass, low-conductance spacer and argon gas fill.	Double-Hung	47-1/4" x 59"	0.29	0.46	0.52	71%	0.559	0.38	0.42	56
	Single-Hung	47-1/4" x 59"	0.30 no grids 0.29 with grids	0.45	0.51	71%	0.559	0.38	0.42	56
	Picture	47-1/4" x 59"	0.27	0.50	0.56	71%	0.559	0.42	0.46	61
	Slider	59" x 47-1/4"	0.29	0.43	0.49	71%	0.559	0.37	0.40	60

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

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	Commercial ratings also available.
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	

STC rating was calculated in accordance with ASTM E 413.

¹ 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 1/16" air space.

² Tested using GED's Intercept® ULTRA low-conductance warm-edge spacer system. Calculations provided by Lawrence Berkeley Laboratory Window 5.2 and Optics5 software based on a 3/4" IG unit for Edgemont windows and 15/16" IGU for Cambridge windows.

³ Daylight Transmittance measures the performance of the glass only.

⁴ International Standards Organization Damage Weighted Transmission Rating (Tdw-ISO) calculations performed by Lawrence Berkeley Laboratory 5.2 Windows software and is weighted using recommended International Commission on Illumination (CIE) standards.

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

⁶ Condensation Resistance is tested in accordance with NFRC 500.

