



# Performance Data Cambridge - Replacement Windows

## Standard Glass Package Thermal Performance

Glazing	Window Style	Total Unit U-Value <sup>1</sup>	Visible Light Transmittance <sup>2</sup>		Daylight Transmittance <sup>3</sup>	Tdw-ISO <sup>4</sup>	SHGC <sup>5</sup>		Condensation Resistance <sup>6</sup>	
			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 <sup>1</sup>	Visible Light Transmittance <sup>2</sup>		Daylight Transmittance <sup>3</sup>	Tdw-ISO <sup>4</sup>	SHGC <sup>5</sup>		Condensation Resistance <sup>6</sup>	
			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 101/1.S.2/A440-05	0.11 CFM	9.82	60	R60
Single-Hung	48" x 72"	—	AAMA/WDMA/CSA 101/1.S.2/A440-05	0.09 CFM	9.19	60	R60
Double-Hung Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/1.S.2/A440-05	0.06 CFM	7.52	50	R50
Double-Hung Reverse Oriel	48" x 72"	—	AAMA/WDMA/CSA 101/1.S.2/A440-05	0.11 CFM	7.52	50	R50
Single-Hung Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/1.S.2/A440-05	0.05 CFM	7.52	50	R50
Single-Hung Reverse Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/1.S.2/A440-05	0.03 CFM	6.06	40	R40
Twin Double-Hung	52" x 80"	104" x 80"	AAMA/WDMA/CSA 101/1S2/A440-05	0.11 CFM	7.52	40	R40
Triple Double-Hung	52" x 80"	157" x 80"	AAMA/WDMA/CSA 101/1.S.2/A440-05	0.11 CFM	7.52	40	R40
Picture	96" x 48"	—	AAMA/WDMA/CSA 101/1.S.2/A440-05	0.01 CFM	12.12	70	R70
2-Lite Slider	96" x 48"	—	AAMA/WDMA/CSA 101/1.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 101/1.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 101/1.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 5.2 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 5.2 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.





# Performance Data Edgemont - Replacement Windows

## Standard Glass Package Thermal Performance

Glazing	Window Style		Total Unit U-Value <sup>1</sup>	Visible Light Transmittance <sup>2</sup>		Daylight Transmittance <sup>3</sup>	Tdw-ISO <sup>4</sup>	SHGC <sup>5</sup>		Condensation Resistance <sup>6</sup>
				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	0.42	0.48	64%	0.568	0.19	0.21	59
	Edgemont 2-Lite Slider	59" x 47-1/4"	0.28	0.44	0.49	64%	0.568	0.19	0.21	59
	Hopper	59" x 23-5/8"	0.30	0.40	0.44	64%	0.568	0.17	0.19	60
	Picture	47-1/4" x 59"	0.26	0.46	0.52	64%	0.568	0.20	0.22	60

## Edgemont Northern Zone Glass Package Thermal Performance

Glazing	Window Style		Total Unit U-Value <sup>1</sup>	Visible Light Transmittance <sup>2</sup>		Daylight Transmittance <sup>3</sup>	Tdw-ISO <sup>4</sup>	SHGC <sup>5</sup>		Condensation Resistance <sup>6</sup>
				Grids	No Grids			Grids	No Grids	
Low-e glass, low-conductance spacer and argon gas fill.	Double-Hung	47-1/4" x 59"	0.30 no grids 0.29 with grids	0.47	0.53	71%	0.568	0.39	0.43	59
	Edgemont 2-Lite Slider	59" x 47-1/4"	0.29	0.43	0.49	71%	0.568	0.37	0.40	59
	Hopper	59" x 23-5/8"	0.29	0.42	0.47	71%	0.568	0.37	0.39	60
	Picture	47-1/4" x 59"	0.27	0.50	0.56	71%	0.568	0.42	0.46	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	36" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-11	0.12 CFM	6.06	40	R40
Double-Hung	48" x 80"	—	AAMA/WDMA/CSA 101/I.S.2/A440-11	0.10 CFM	5.43	30	R30
Double-Hung Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-11	0.13 CFM	6.06	40	R40
Double-Hung Oriel	48" x 80"	—	AAMA/WDMA/CSA 101/I.S.2/A440-11	0.08 CFM	6.06	35	R35
Double-Hung Reverse Oriel	36" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-11	0.15 CFM	6.06	40	R40
Double-Hung Reverse Oriel	48" x 80"	—	AAMA/WDMA/CSA 101/I.S.2/A440-11	0.15 CFM	6.06	30	R30
Triple Double-Hung	48" x 80"	145" x 80"	AAMA/WDMA/CSA 101/I.S.2/A440-11	0.10 CFM	5.43	30	R30
Picture	72" x 72"	—	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.01 CFM	12.11	35	R35
Triple Picture Window	48" x 72"	144" x 72"	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.01 CFM	12.11	35	R35
Twin Picture Window with Transom	48" x 72"	96" x 112"	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.01 CFM	12.11	20	R20
Edgemont 2-Lite Slider	96" x 40"	—	—	—	—	—	—
Edgemont 2-Lite Slider	84" x 48"	—	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.06 CFM	8.35	40	R40
Edgemont 2-Lite Slider	84" x 36"	—	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.06 CFM	8.35	35	R35
Edgemont 3-Lite Slider 1/4-1/2-1/4	108" x 48"	—	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.06 CFM	6.06	35	R35
Edgemont 3-Lite Slider 1/3-1/3-1/3	108" x 48"	—	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.06 CFM	7.52	35	R35
Edgemont Hopper	49" x 36"	—	AAMA/WDMA/CSA 101/I.S.2/A440-08	0.01 CFM	6.06	25	R25

## Sound Transmission

Window Style	Unit Size	IG Unit	Glazing	STC	OITC
Double-Hung	47-1/4" x 59"	3/4"	1/8" annealed, 1/2" spacer, 1/8" annealed	28	23
Picture	47-1/4" x 59"	3/4"	1/8" annealed, 1/2" spacer, 1/8" annealed	27	22
Slider	59" x 47-1/4"	3/4"	1/8" annealed, 1/2" spacer, 1/8" annealed	28	22

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: Edgemont** double-pane insulated glass units using double-strength glass with 1/2" air space.  
<sup>2</sup> 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.

<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 5.2 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.

