

ACOUSTICAL WINDOWS

Clearly noticeable sound reduction in a conventional dual pane window frame.



Mercer 830 slider and 3.25 Series casement windows offer the cost, ease of operation, and egress compliance advantages of conventional dual pane window frames, with higher STC ratings from 35 to 38 and OITC ratings from 28 to 32. And they're energy efficient, and deliver high wind load and water resistance performance. Mercer 830 and 3.25 Series acoustical windows are a sound choice for building elevations located near busy streets, highways, airports, railroads, and noisy neighbors. They're also available with standard glazing for lower- or non- STC rated elevations, so the entire building can have a consistent look.



325
picture
window



830
slider
window

Mercer 830 & 3.25 Series provide the best overall value for sound reduction, energy efficiency, ease of operation, wind/water resistance, and appearance.

- Mercer 830 Series slider/single hung windows feature 1-5/16" and 1-3/8" thick dual pane glazing for STC 37 and 38 ratings, and 0.29 and 0.31 "U" value performance. Window projects 2-3/8" from nail fin into stud wall, allowing adequate depth for stool and apron casing in conventional framing. Overall 4.5" deep and 3.5" high, thick wall frames with reinforced center rails provide superior structural integrity and AAMA certified wind/water resistance ratings of HS-C60 and H-C55. Double, high-pile, fin-seal weather strip assures very low air infiltration at all vent seals. Exterior tape glazed with tight fitting square cut glazing bead. Sliding vents latch securely with a single positive action lock.
- Mercer 3.25 Series casement/awning windows feature energy efficient 3/4" O.A. dual pane glazing for STC 37 rating, and 0.27 "U" value performance. Window projects 1-7/8" from nail fin into stud wall, allowing adequate depth for stool and apron casing in conventional framing. Overall 3.25" deep and 3-5/8" high, thick wall frames with reinforced perimeter and ventilators provide superior structural integrity and AAMA certified wind/water resistance ratings of C-C65 and AP-C40. Interior dry glazed with tubular square cut glazing bead. Vents equipped with roto operators and single-lever multi-point lock, and interior flush mount screens.
- Welded frame corners assure watertight joints. Vinyl frames are warranted against chipping, peeling, blistering, rot, and corrosion.
- 830 Series frames offered in white and clay colors standard. 3.25 Series offered in white and tan colors standard. 17 optional exterior paint colors.
- 850 Series sliding patio door available with STC 34 rating and white or clay colors standard.

MERCER

ACOUSTICAL WINDOWS

NFRC 100 & 200 Thermal / Optical Performance*

Window Series Type / OA / Glass Combo	Air Space	"U" Factor	Solar Heat Gain Coefficient	Visible Light Transmittance	STC	OITC
830 Series						
Horizontal Slider / 1 ⁵ / ₁₆ " O.A. 1/4" LoE 366 x 5/16 Clear	3/4"	0.29	0.21	0.47	38	32
Horizontal Slider / 1 ³ / ₈ " O.A. 1/8" LoE 366 x 3/16 Clear Aluminum Box Spacer	1 1/16"	0.31	0.21	0.49	37	29
325 Series						
Casement 3/4" O.A. 3/16" LoE 366 x 1/8" Clear	7/16"	0.27	0.17	0.38	37	29
Narrow Picture Window / 3/4" O.A. 3/16" LoE 366 x 1/8" Clear	7/16"	0.26	0.24	0.54	36	27
850 Series						
Patio Door / 3/4" O.A. ** 3/16" LoE 366 x 1/8" Clear	7/16"				34	28
Patio Door / 3/4" O.A. 1/8" LoE 366 x 1/8" Clear	1/2"	0.29	0.23	0.53	28	22

* Cardinal XL Edge Dual Seal Insulated Glass Units With Argon Gas Fill Airspace Without Internal Grids

"U" Factor: The rate of heat flow through a given glazing. The lower the number, the better the insulating quality.

Solar Heat Gain Coefficient: The fraction of direct solar radiation that enters a building thru the glass as heat. Lower numbers means the glazing lets less heat in.

Visible Light Transmittance: Measures the amount of light transmitted through the glass. VLT is expressed as a number between 0 and 1. The higher the VLT, the more light is transmitted.

**Thermal/ Optical performance test pending.

AAMA Certified Window Performance Ratings

830 Series						
Horizontal Slider	72" x 60"	36" x 60"	HS-C60	90.0 PSF = 189 MPH	9 PSF = 60 MPH AIR = .05 cfm/ft ²	
Single Hung	56" x 91"	56" x 45"	H-C55	82.5 PSF = 181 MPH	9 PSF = 60 MPH AIR = .07 cfm/ft ²	
Picture Window	60" x 99"	N/A	FW-LC35	50 PSF = 141 MPH	12.00 PSF = 69 MPH AIR = .01 cfm/ft ²	
325 Series						
Casement Single Vent	36" x 60"	36" x 60"	C-C65	97.5 PSF = 198 MPH	20.25 PSF = 89 MPH AIR = .02 cfm/ft ²	
Awning Window	60" x 36"	60" x 36"	AP-C40	60.0 PSF = 155 MPH	12 PSF = 69 MPH AIR = .02 cfm/ft ²	
Picture Window	60" x 99"	N/A	F-HC60	90.0 PSF = 189 MPH	20.25 PSF = 89 MPH AIR = .01 cfm/ft ²	

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