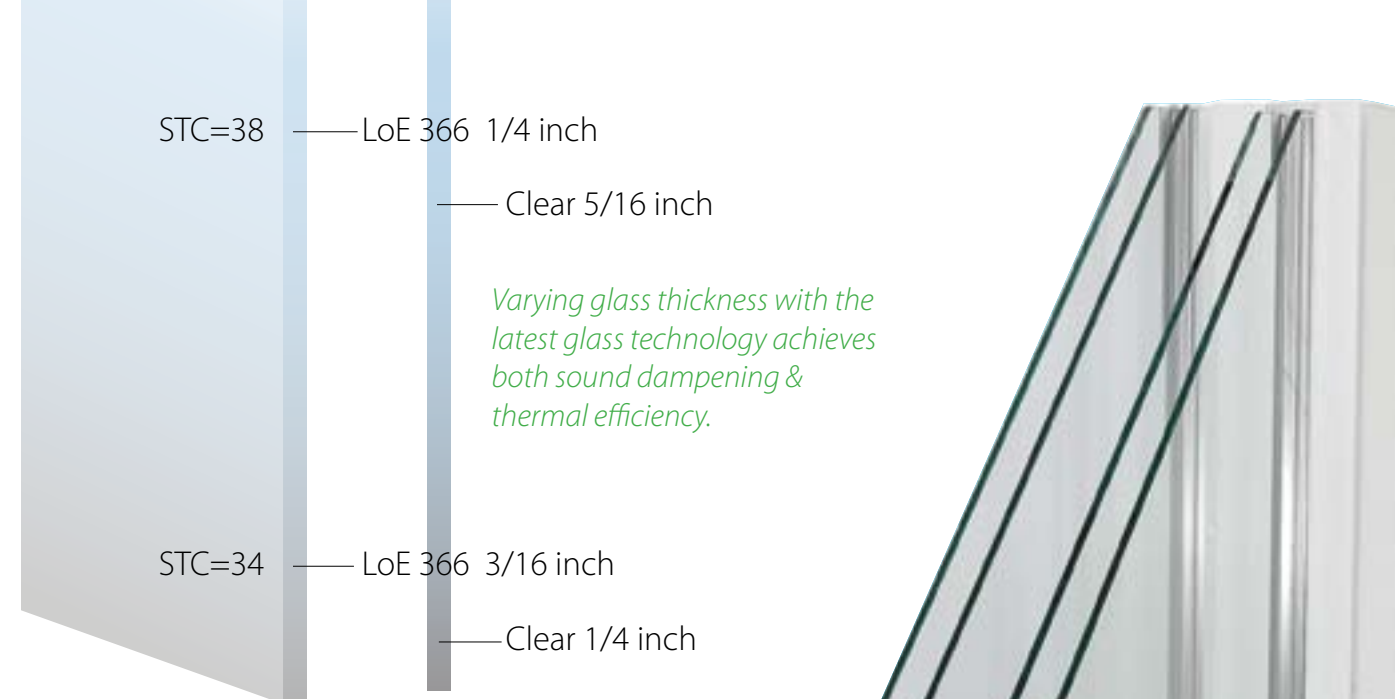
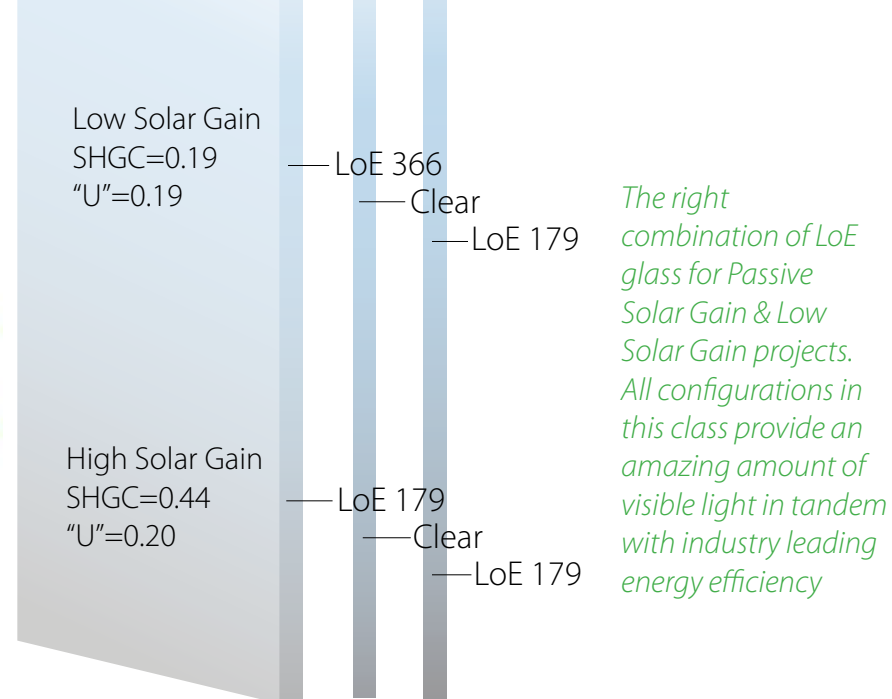




Introducing
our greenest
high performance
Window System.

MERCER



Cutaway view of 830 slider triple pane window

Thermally Efficient 830 TRIPLANE

- Energy efficient triple glaze technology. Certified "U" value better than R-5 insulating value. Perfect hedge against rising energy costs.
- The solution for Passive *and* Low Solar Gain projects requiring LEED certification.
- 4.50" deep, 3.50" high frame provides superior structural integrity.
- Tested and certified for wind resistance from 182 – 190 MPH.
- May help reduce length of perimeter duct runs and capacity of HVAC systems.
- Double, high pile, fin-seal weather strip on moving ventilators assures very low air infiltration at all seals.
- Welded frame corners provide watertight joints.
- Available in single hung, slider, and picture window configurations.
- Optional 1" simulated divided lites or optional 5/8" colonial or 1" contoured internal grids.
- Offered in white, clay, or 17 optional paint colors.

Acoustical DUAL PANE

- Sound Dampening and Thermal Efficiency
- 830 series structural integrity in a dual pane glass configuration. Designed for energy performance, visible light transmittance, and reduction of outside noise. A great application for projects located near loud urban settings like busy streets, highways, and airports.



Cutaway view of 830 slider dual pane window



High Wind & Rain PERFORMANCE

The 830 series provides unmatched resistance to high wind and rain pressures when compared to other vinyl slider and single hung windows. The 830 series is the alternative to casement and awning windows because they won't fall out of alignment or sag due to glass weight, as could be the case with fully opened casements. This makes the 830 perfect for mid-rise residential/commercial projects or high exposure areas like coastal and mountainous locations.

MERCER 830 WINDOWS

830 Thermal / Optical Performance*

Maximum Thermal Efficiency

Glazing Type	"U" Factor	Solar Heat Gain Coefficient	Visible Light Transmittance
Horizontal Slider			
LoE 366 / Clear / LoE 179	0.19	0.19	0.43
LoE 366 / LoE 179 / LoE 179	0.19	0.19	0.42
LoE 366 / LoE 179 / LoE i81	0.18	0.17	0.39

High Solar Gain & Thermal Efficiency (South/Southwest Facing Building Elevations)

Glazing Type	"U" Factor	Solar Heat Gain Coefficient	Visible Light Transmittance
Clear / Clear / LoE 179	0.24	0.48	0.55
LoE 179 / Clear / LoE 179	0.20	0.44	0.53
LoE 179 / LoE 179 / LoE i81	0.18	0.39	0.48

Sound Dampening And Thermal Efficiency

Glazing Type	"U" Factor	Solar Heat Gain Coefficient	Visible Light Transmittance	SoundTransmission	OITC
Horizontal Slider					
6mm (1/4") LoE 366 * /6mm (1/4") Clear Lamin Safety/6mm (1/4") Clear	0.24	0.19	0.43	35	28
3mm (1/8") LoE 366 ** /5mm (3/16") Clear	0.31	0.21	0.49	37	29
6mm (1/4") LoE 366 * /8mm (5/16") Clear	0.29	0.21	0.47	38	32

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

"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.

Sound Transmission Class (STC): A rating of a material's ability to resist airborne sound transfer at the frequencies 125 – 4000 Hz. A higher STC rating blocks more noise from transmitting through a partition . Changes of +/- 3 are just perceptible; +/- 5 clearly noticeable; +/- 10 twice (or half) as loud. Loud speech can be understood fairly well through an STC 30 wall.

Outdoor Indoor Transmission Class (OITC): A rating calculated in accordance with ASTM E1332 . Created to provide a single number rating for facades (exterior walls) and facade element (windows and doors) that are subjected to transportation noises (aircraft, trains, autos, and other low to mid-frequency noise sources). The higher the number the better the noise isolation. OITC is calculated over the frequency range of 80 to 4000 hertz. The OITC is calculated by subtracting the logarithmic summation of the transmission loss values from the logarithmic summation of the A- weighted transportation noise reference spectrum. An apparent OITC rating can be assigned to specimens tested in the field and in the laboratory.

830 AAMA Certified Window Performance Ratings

Window Type	Test Size Rough Opening	Vent Size	AAMA Performance Rating	Uniform Structural Load MPH	5 Gal/Ft/Hour=8"/Hr Water Resistance MPH/ Air Infiltration Rate
Horizontal Slider	72" x 60" XO	36" x 60"	HS-C60	90.0 PSF = 190 MPH	9.00 PSF = 60 MPH AIR = .05 cfm/ft(2)
	120" x 60" XOX	30" x 60	HS-LC55	82.5 PSF = 182 MPH	9.00 PSF = 60 MPH AIR = .01 cfm/ft(2)
Single Hung	56" x 91"SH	52" x 45"	H-C55	82.7 PSF = 182 MPH	9.20 PSF = 60 MPH AIR = .07 cfm/ft(2)
Picture Window	120" x 60" fixed	N/A	FW-C30	45.0 PSF = 134 MPH	12.00 PSF = 69 MPH AIR < .01 cfm/ft(2)

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