

Today's Aluminum Windows

The Smart Choice for Long-lasting Beauty and Efficiency

A central insulating core (thermal barrier) between interior and exterior frame and sash members make modern aluminum windows a head-to-head competitor with wood or vinyl for energy efficiency and condensation resistance. In addition, aluminum windows offer long-term durability, stability and freedom from structural deterioration.

Strength and rigidity. Unlike wood, aluminum cannot absorb moisture, so there is no swelling, shrinking, warping, cracking or rotting. Unlike vinyl, aluminum will not become brittle at low temperatures or pliable at high temperatures. Aluminum is 23.2 times more rigid than vinyl and 7.2 times more rigid than soft wood, so it's much less likely to bend or twist due to building settling or from expansion and contraction caused by temperature extremes. Unaffected by weather and time, aluminum windows maintain their integrity against air and water leakage, while staying easy to open and close, for many years.

Verified by independent laboratory testing, Wojan aluminum windows and doors routinely exceed national performance standards set by the American Architectural Manufacturers Association.

Durable and attractive in appearance with modern baked-on enamel finishes, aluminum windows are available in virtually any color and add beauty for years to come.



WOJAN IS SECOND TO NONE IN MATCHING ANY DESIRED COLOR SCHEME.*
*Color availability subject to minimum order requirements.

ALUMINUM. It's here to stay.

Technical Information

Frame/sash materials:

- Thermally improved main frame and sash made with 6063-T5 extruded aluminum alloy.
- Optional maintenance and safety hardware, such as limiter stops.

Hardware:

- Die-cast cam-type lock.
- Sliders have heavy-duty ball-bearing rollers.
- Single-hung equipped with block & tackle balances, removable through side take-out.

Finish:

- Electrostatically-applied baked-on polyester standard colors meet or exceed AAMA 2603 performance standards: Sand Beige, Bronze, White, Hartford Green.
- Available high-performance fluoropolymer colors meet or exceed AAMA 2605 standards: White (70% Kynar®), Bronze (70% Kynar®).
- Available anodic coatings meet or exceed AAMA 611 performance standards: Clear Anodized, Bronze Anodized.
- Custom colors available subject to minimum quantity requirements.

(Kynar® is a registered trademark of Arkema Inc.)

Glazing:

- Horizontal Sliding and Hung configurations are ¾" Sealed Insulated Glass (IGU) with marine glazing on both the operating and fixed sashes.
- Fixed (Picture Window) configuration is 1" Sealed Insulated Glass (IGU) which is direct-set.
- Glass options include Low-E, tinted, obscure, tempered, laminated, argon-filled and spandrel.

Weather-stripping:

- All sash: Double weather-stripped with fin seal poly-pile or vinyl weatherstrip, fitted into extruded T-slots.

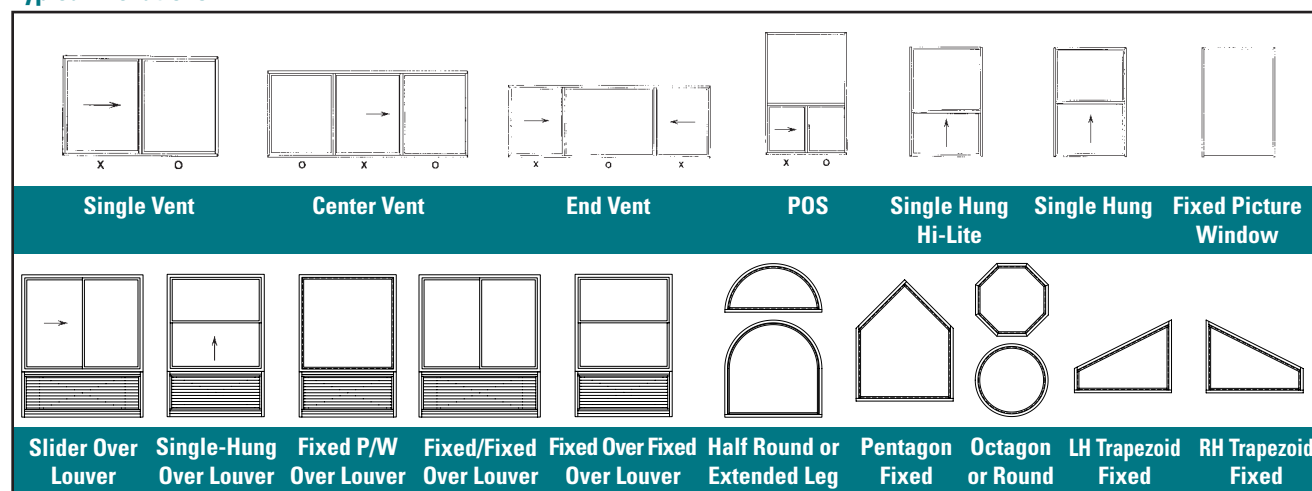
Screens:

- Aluminum frames with aluminum or fiberglass screen cloth. (Screens are not intended to act as a human barrier.)

Ratings:

- Horizontal Sliding configurations: AAMA C30 Grade, AAMA C50 Grade
- Hung configurations: AAMA C40 Grade, AAMA C50 Grade
- Fixed configurations: AAMA HC50 Grade (See web page for ratings updates.)

Typical Elevations:

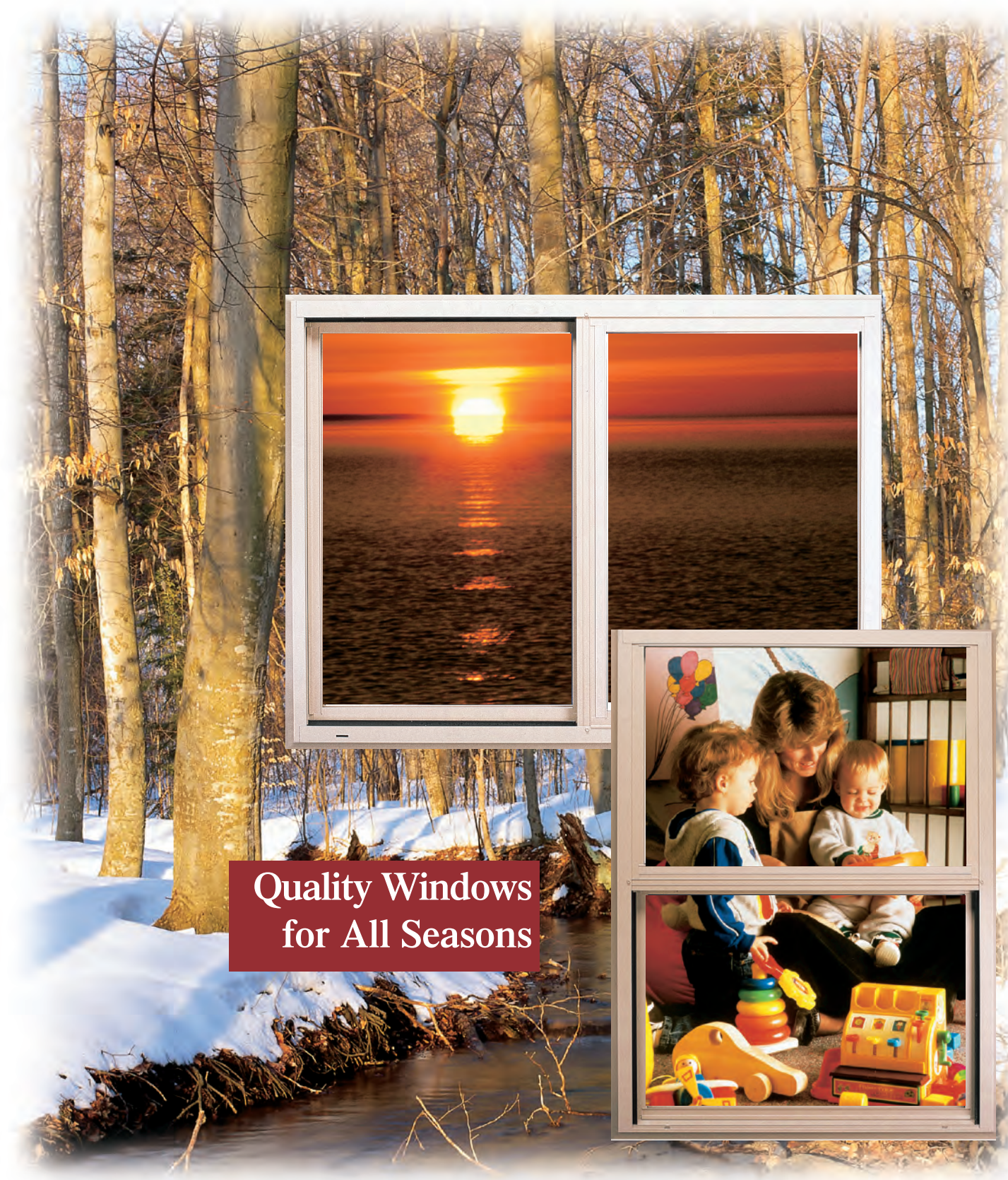


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**Quality Windows
for All Seasons**



Made in the U.S.A.

M - 8 5 Series

The M-85 Series

The Cost-effective Choice for New Construction and Renovation



RESORTS



COLLEGES



SCHOOLS



COMMERCIAL RENOVATION



COMMERCIAL



MULTIFAMILY RESIDENTIAL



CUSTOM RESIDENTIAL



HOTELS

Custom Appeal, Custom Service, Maximum Value

Since 1952, Wojan products have been bringing comfortable environments to multi-family housing, hotels, homes, offices and classrooms. Whatever the performance requirement, for residential or commercial new construction or remodeling, Wojan provides economical window and door products while offering the design flexibility of special styles, shapes, sizes and custom colors.

The M-85 Series

Practical, Attractive, Economical, Durable — for Long-Lasting Comfort Where Quality is Paramount

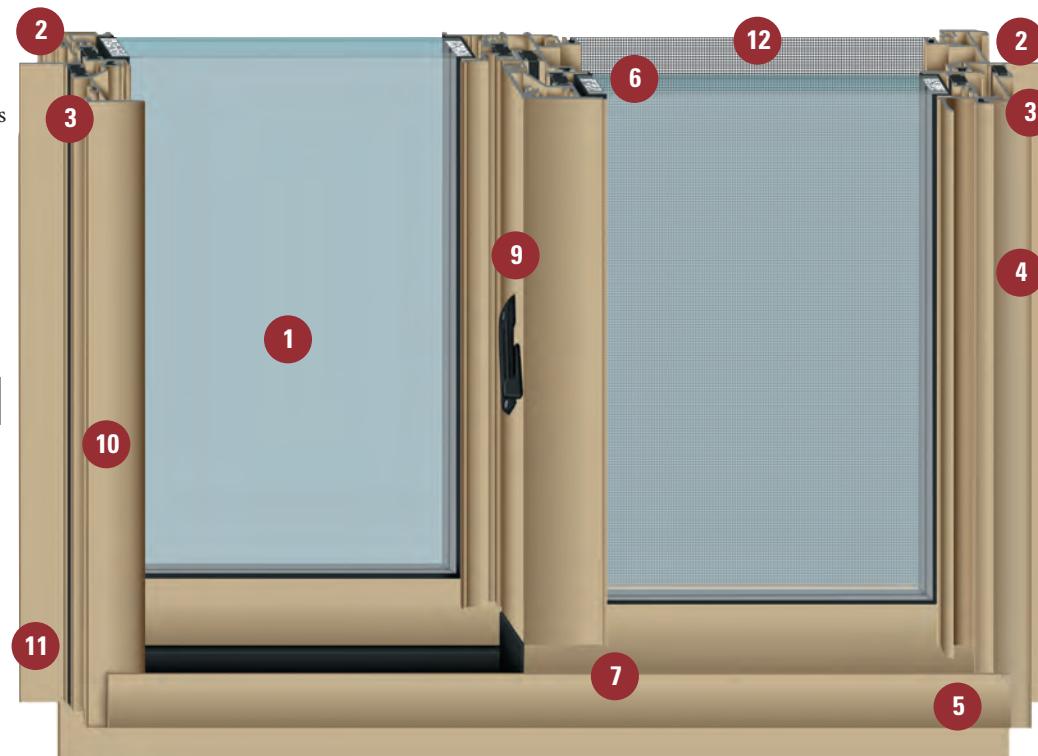
Thermally Improved for Energy Savings and Condensation Resistance

The Wojan M-85 Series is the cost-effective leader in a heavy duty window with excellent energy efficiency for comfort and lower building operating costs. Design features provide low thermal transmittance and minimize unsightly (and potentially damaging) moisture condensation, while holding energy-robbing air infiltration to a level as low as 62% less than that required by industry standards.

Designed for Reliable Service

Energy efficiency is not the whole story. The Wojan M-85 Series also offers exceptional strength and durability, flexible installation, ease of operation and simplified maintenance.

HORIZONTAL SLIDING



Solid Class

The M-85 is a rugged, no-nonsense performer, but there's no shortage of custom options for a unique architectural statement. **Be creative!** Rely on Wojan for:

Custom sizes and styles, from standard single-hung, double-hung, fixed and sliding windows to commercial combinations and pass-through service windows.

Custom shapes: gothic, half round, triangle, trapezoid and more.

Custom grilles.

Custom installation accessories: caps, subsills, panning, trim, mullions, expanders, and receptors help achieve a custom look, especially in challenging renovation projects.

Glazing options: meet any job glazing requirement with standard clear annealed glass, tempered glass, laminated glass for maximum resistance to sound transmission, tinted or Low-E glazing for energy efficiency.

Custom colors to match any interior or exterior decor.

- 1 Energy-efficient 3/4-inch insulating glass (1" in fixed window) - Low-E or tinted glazing also available for maximum thermal performance
- 2 Polyurethane thermal barrier in frame and sash
- 3 Highly efficient fin seal weather-stripping
- 4 Commercial-grade extrusions offer strength with a solid, attractive appearance
- 5 Coped (non-mitered) corners resist flexing and racking to ensure structural integrity, reduce air infiltration and stop damaging water leakage.
- 6 Glazed inserts with marine-type wrap-around glazing system for easy field replacement of glass compared to direct-set glazing
- 7 Ball-bearing easy-glide rollers provide smooth, quiet operation of sliding windows.
- 8 Block & tackle balances, readily accessible through side take-outs, offer positive, safe operation of hung windows and greater reliability compared to torsion springs.
- 9 Heavy die cast aluminum hardware with positive cam-action latch enhances security.
- 10 Durable, low-maintenance electrostatically-applied baked-on enamel finish
- 11 Integral nailing fins or finless configuration offers easy, flexible installation.
- 12 Spring-loaded screens install and remove easily.
- 13 Side take-out sash for easy cleaning
- 14 Energy-efficient 1-inch insulating glass-Low-E or tinted glazing also available for maximum thermal performance.

SINGLE HUNG



FIXED WINDOW

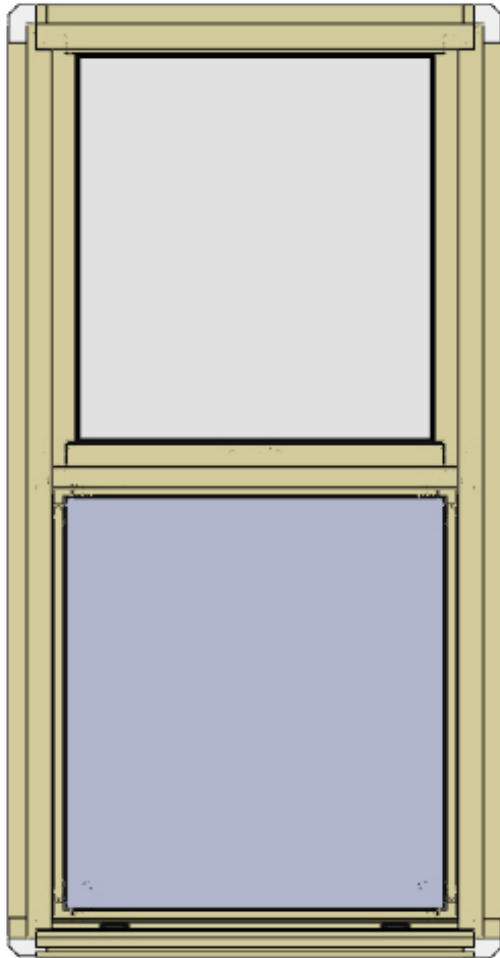


M-85 Series Single-Hung

New Self-Locking Feature and Sill Re-Design



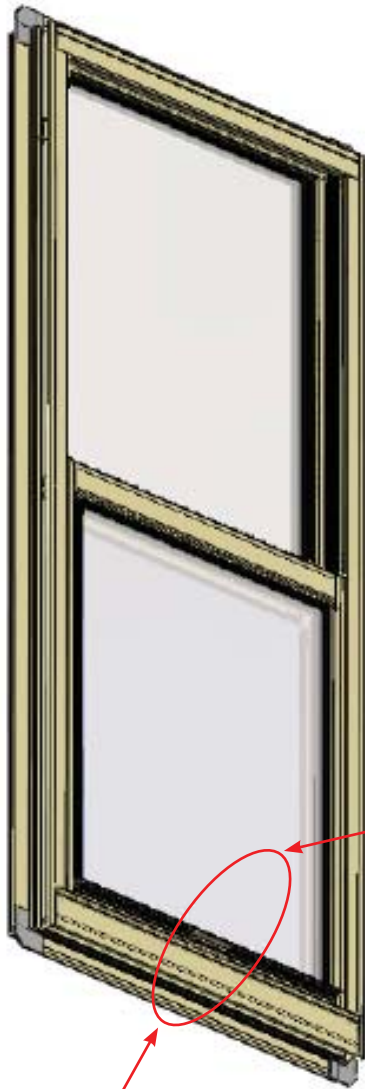
CW30 CW50



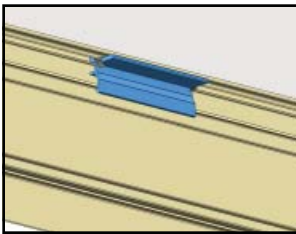
Made in the U.S.A.

Aluminum single-hung windows with improved sight-lines and performance.

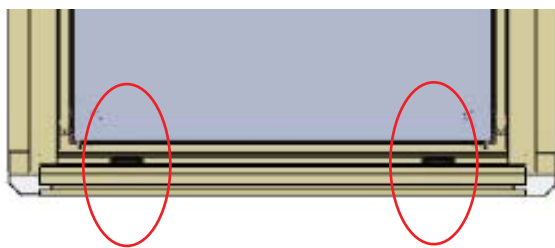
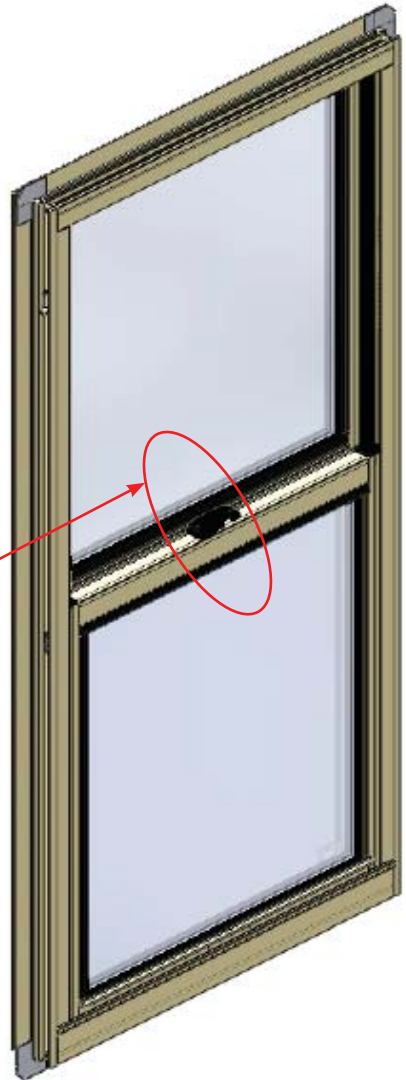
- Enhanced pour and de-bridge polyurethane thermal break for better performance - utilizing Azo-Brader™ technology
- Most favorable U-Values with optional high-performance glass package - factory marine glazing
- 3/4" sealed insulated glass (IGU) - 10-year limited warranty (see supporting document for details)
- 5-year limited warranty on materials and workmanship (one year on moving parts)
- New self-locking feature is now standard - sweep lock remains available as option
- Both locks have same level of forced-entry resistance - Grade 10 performance
- CW performance class products now achieve higher water resistance pressures
 - Performance grade 30 (Test size 56" x 91")
 - Performance grade 50 (Test size 48" x 78")
- Modified screen channel allows for new weep hole cover design and improved water flow from sill - no more need for reticulated foam weep baffles in sill
- Standard finishes include white, bronze, sand beige, hartford green (AAMA 2603); white or bronze Kynar® (AAMA 2605); and clear or bronze anodized (AAMA 611) - custom colors with minimum order
(Kynar® is a registered trademark of Arkema Inc.)
(Azo-Brader™ is a trademark of Azon USA Inc.)



New self-locking feature is now standard



*Sweep lock available, as an option
(or both lock types can be
ordered together)*



*Modified screen channel allows for new weep hole
cover design and improved water flow from sill*

Performance*:

- CW-PG30-H (NAFS-08) (56" x 91")
- CW-PG50-H (NAFS-08) (48" x 78")

(* The 05 fenestration standard utilized five performance classes - R, LC, C, HC and AW. NAFS-08 utilizes four such classes - R, LC, CW and AW.)



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Window and Door Selection Chart



Series	Types	AAMA Class ⁽¹⁾	Option	Glazing	Thermal Barrier	Frame Thickness	Finish**
M-950	Single-Hung	AW50, HC50		1" IGU	Yes	3 1/4"	Clear Anodized, Bronze Anodized.♣ White (70% Kynar®), Bronze (70% Kynar®).♦ White, Bronze.■
	Fixed	AW80, HC80					
	Horizontal Slider*	CW50					
M-950B	Single-Hung Blast-Resistant	AW50	Blast			4 3/4"	
	Fixed Blast-Resistant	AW80					
M-85	Horizontal Slider*	C50, CW35		3/4" IGU	Yes	2 11/16"	Clear Anodized, Bronze Anodized.♣ White (70% Kynar®), Bronze (70% Kynar®).♦ White, Bronze, Sand Beige.■
	Single-Hung	CW50, CW30					
	Fixed	HC50		Impact/Hurricane			
M-750 Synergy ^{3™}	Horizontal Slider (single vent, end vent)	C50, CW35		Triple Glazed: 3/4" IGU Exterior, Single Glazed Interior	Yes	5"	White, Bronze■
	Fixed	HC50		Triple Glazed: 1" IGU Exterior, Single Glazed Interior			
M-66	Internal Storm: Horizontal Slider*	n/a		SS, DS, 3/16" Single Glazed	No	2 1/8" HS	White, Bronze■
	Internal Storm: Fixed						
4300	Casement	n/r		3/4" IGU	Yes	2 3/8"	White, Bronze■
4500	Project-In Hopper	AW90		1" IGU	Yes	2 3/8"	Clear Anodized, Bronze Anodized.♣ White (70% Kynar®), Bronze (70% Kynar®).♦ White, Bronze.■
	Project-In Casement	n/r					
	Fixed	AW80					
4600	Project-Out Awning	AW70, HC65		1" IGU	Yes	2 3/8"	Clear Anodized, Bronze Anodized.♣ White (70% Kynar®), Bronze (70% Kynar®).♦ White, Bronze.■
	Project-Out Casement	HC65					
2500 Model	Sliding Glass Door (Transom/Sidelite available)	LC25		1" IGU	Yes	4 3/4"	Clear Anodized, Bronze Anodized.♣ White (70% Kynar®), Bronze (70% Kynar®).♦ White, Bronze, Sand Beige.■
2600 Model	Sliding Glass Door (Transom/Sidelite available)	CW40					

* M-950, M-85 and M-66 horizontal sliding configurations available in 2-panel single-vent; and 3-panel center or end vent.

** Custom colors also available - minimum order quantities required.

■ Electrostatically-applied baked-on polyester standard colors meet or exceed AAMA 2603 performance standards.

♦ Available high-performance fluoropolymer colors meet or exceed AAMA 2605 performance standards.

♣ Available anodic coatings meet or exceed AAMA 611 performance standards.

⁽¹⁾ The '05 fenestration standard utilized five performance classes - R, LC, C, HC and AW. NAFS-08 utilizes four such classes - R, LC, CW and AW.

Visit www.wojan.com for ratings updates