



Designer 1600 Series

Replacement Windows and Doors



Opening a world of possibilities.

Designed to express the way you live your life, MIWD's Designer Series can help you create a home that is as individual as you. With a rich set of features and an extensive selection of styles, all backed by one of the strongest warranties in the industry, Designer Series windows and doors will surround you with comfort, beauty and peace of mind. Let your personality — from classic to contemporary — shine through your home.

These are the windows of a lifetime, every detail revealing the hallmarks of true craftsmanship. Choose from a variety of sizes and styles including double-hung, casement, awning, bay, bow, or picture windows, combinations and window walls, or geometric and custom shapes.





MI Windows Add Beauty and Value to Your Home

As a leading manufacturer of vinyl windows and patio doors we're committed to maintaining the highest level of quality and craftsmanship. We control every step of the manufacturing process from design to final inspection in facilities around the country.

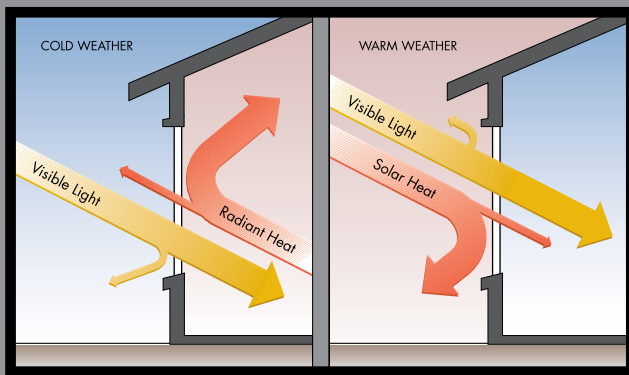
Take a look . . .



Evolutionary thermal efficiency.

Revolutionary Performance and Protection.

How you live is more than how you look. It's how you perform. How you act and feel, under every condition life can throw your way. We can say this with certainty, because we've been around long enough to experience (and help guide) the evolution of window thermal efficiency. And, we've taken part in revolutionary ideas in performance and protection along the way. Today, when it comes to thermal efficiency, no other vinyl window manufacturer can match MIWD's commitment to producing the highest quality, most thermally efficient windows and doors on the market.



Insulating glass unit with low-conductance spacer

Argon gas

TMAX™ Low "E" coating

Low-conductance spacer

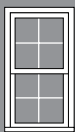


Low "E" glazing system — the lowdown on high performance.

The latest generation in the evolution of MIWD's high-performance glazing system options, including proprietary TMAX™ Low "E" and warm-edge technology keep your home comfortable and energy efficient. The TMAX™ glazing system meets ENERGY STAR® guidelines for energy efficiency in all US climate zones, and these latest advancements deliver optimum performance under the widest possible range of conditions. A combination of an insulating frame and sash, fusion-welded construction, continuous weather stripping and integral glazing help resist air and water infiltration.

A detailed system for innovation, quality, and comfort.

TMAX™ is not an isolated innovation. It's a uniquely designed system that truly gives you the best balance of performance attributes. An approach in which every detail counts, and combines:



- Multi chambered airspaces and fusion welding in the frame and sashes.
- Double-pane insulating glass with Low "E" on the inside surface and filled with argon gas.
- Low-conductance material spacer between the two panes.
- The result is increased insulation value, increased warmth, and decreased condensation.



Performance Standards.



ENERGY STAR®

Established by the US Department of Energy and the Environmental Protection Agency, the ENERGY STAR® program defines thermal efficiency levels for three different climate regions of the country. The regions are divided by their need for reducing heating costs (northern), reducing cooling costs (southern), or providing the best balance of savings for both (north/central and south/central). Products receive an ENERGY STAR® label for the region or regions for which they qualify.

It's easy to remember that MI windows with the TMAX™ glazing system have qualified for the ENERGY STAR® label in every region.

NFRC label lets you compare.

The National Fenestration Rating Council (NFRC) sets standards for reporting energy performance information based on independent testing, so you can compare windows with confidence. In fact, this is the data that the ENERGY STAR® ratings are based on. When you compare, you'll see that MI windows are among the leaders in thermal efficiency. What's more, they transmit a high level of visible light for a natural view, and they beat industry standards for air leakage by 100 percent. Learn the measurements that matter:

	MI Windows and Doors High Performance Window	
	1650 Series Double-Hung Vinyl Frame with TMAX™	
ENERGY PERFORMANCE RATINGS		
U-Factor(U.S./I-P)	Solar Heat Gain Coefficient	
0.29	0.29	
ADDITIONAL PERFORMANCE RATINGS		
_____	_____	
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>		

■ U-value measures heating efficiency.

This is a window's ability to block the flow of heat through the glazing system, and retain the heat in the room. The lower the U-value, the better the efficiency. For an easy reference, MIWD's proprietary TMAX™ Low "E" glazing system with a low-conductance spacer and argon gas between the panes has a U-value of 0.29, so it is almost twice as efficient as an ordinary double-pane glass system with a rating of 0.50.

■ Solar Heat Gain Coefficient measures cooling efficiency.

This is a window's ability to block the infrared heat from the sun, and maintain a cooler temperature in the room. The lower the coefficient, the better. MIWD's TMAX™ system has a rating of 0.29, so it is almost twice as efficient as an ordinary double-pane glass system with a 0.58 rating.



Energy Saving Options

TMAX[™] Extreme Package GLASS SYSTEM



Maximum Energy Efficiency

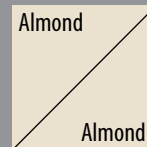
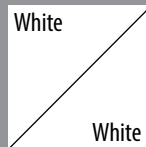
Foam Enhanced Mainframe.
Provides added insulation to the frame.

Triple Pane Glass.
Superior Energy Efficient glass with two layers of LowE and Argon enhancement. The most Energy Efficient MI Window available. The 1600 Series qualifies for the Department of Energy's R-5 Volume Program. MI Windows and Doors was named the 2011 top manufacturer of R-5 windows by the Department of Energy.

DP 50 and Impact Rated

MIWD offers DP 50 and Impact Rated Double Hungs.

Color Options:



Optional Colors



Paintable/Stainable



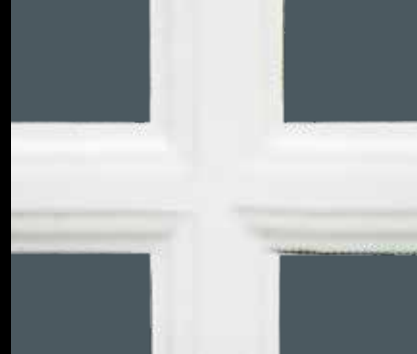
- Allows homeowners to paint or stain the interior to match existing trim
- Real look of wood without the maintenance
- Will not rot or warp like wood
- Thermal and Structural ratings of vinyl
- Available with white exterior
- Available with Paintable/Stainable SDL interior grids and white SDL exterior grids
- Available in fin or finless

Optional Features



Grids Between the Glass

Color-coordinated sculptured or flat grids.



Simulated Divided Light

Color-coordinated sculptured grids.



Nailing Fin with or without J-Channel

For New Construction.



Clarity Screen™

50% more clarity. Strength of stainless steel.

Optional Hardware Finishes

Bright Brass

Brushed Nickel

Beauty. Brawn. And Breadth.

MIWD stands behind that creative expression you call home with everything you need to satisfy the artist, business person and builder in you. The beauty of an array of window styles; the brawn of the strongest industry warranty; and, the entire list of standard features and options you need to complement your creative style.

Two Warranties To Guarantee Your Satisfaction

Every MI window and door is built with pride and quality but for that added assurance, feel confident that the Designer Series is backed by two of the strongest warranties in the business. Our Lifetime limited warranty is your guarantee of satisfaction and protection against manufacturer's defects for as long as you own your home. And now, the Lifetime Glass Breakage Warranty on our double-strength glass give's you added piece of mind.



Lifetime Glass Breakage Warranty.

Giving you the piece of mind to enjoy the benefits of your new windows.

1650 Double Hung Windows

Reflections and expressions of tradition and craftsmanship.



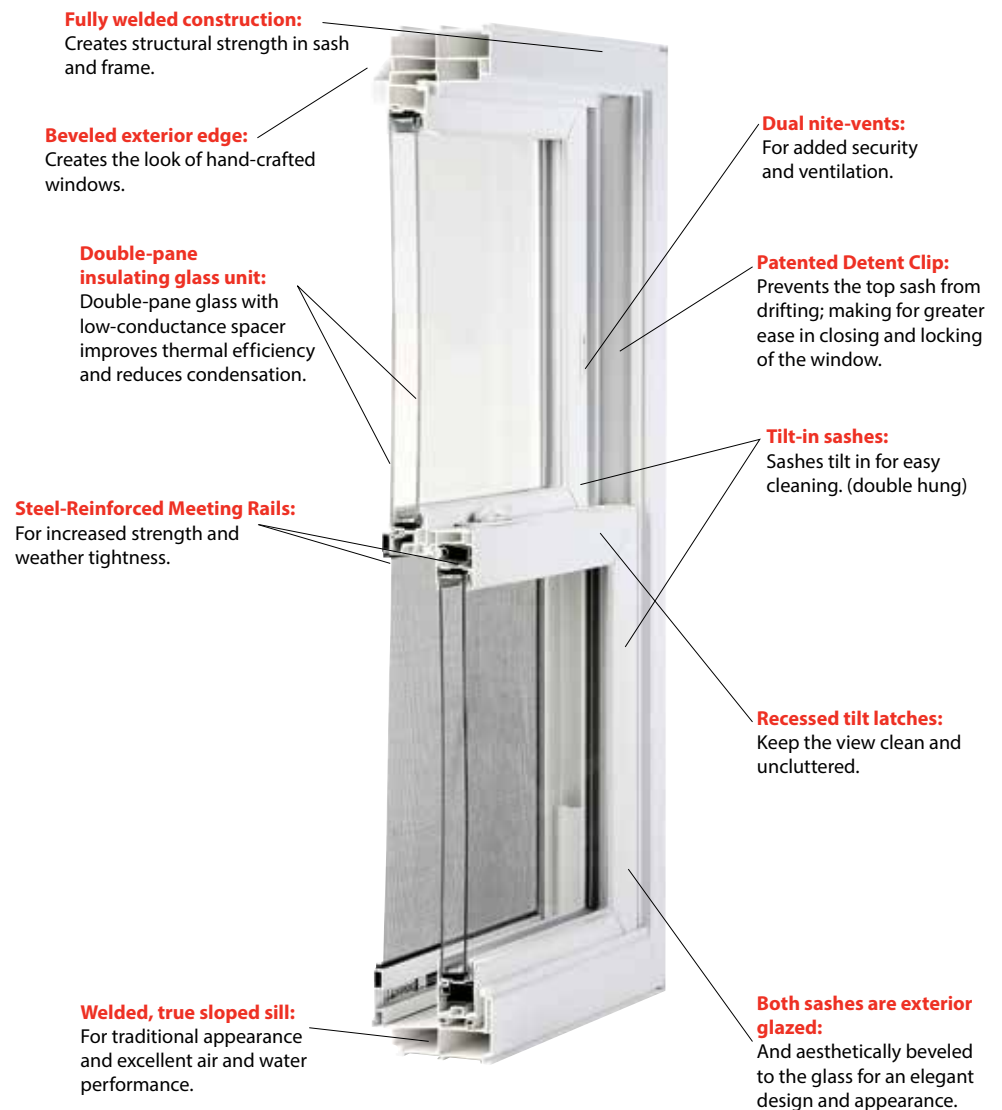
Traditional craftsmanship is the first thing you see in 1650 double-hung windows, with detailed features like beveled exterior edges and a 5-degree true-sloped sill. A closer look reveals this crafted style is made even stronger through advanced engineering details. Solid vinyl construction and operating hardware that's been time-tested for decades make the double-hung window the ideal pick if you're looking for design flexibility.



Easy cleaning.
Spring-loaded tilt latches allow sash to tilt in for easy cleaning from inside the home.



Trouble-free operation.
3/4" stainless steel balance system applies a constant force so sashes lift and lower easily — and stay where you put them. They never sag and they never need adjustment.



1675 Casement & 1665 Awning Windows

The way to freshen every corner with sunshine and breezes.



MIWD's stylish and functional designs of casement and awning windows are a dream when it comes to the beauty and freshness of natural sunlight and fresh air meet your home.

Beyond the presentation, the performance of MIWD's casement and awning combination is perfect for those whose lifestyle merges outdoor and indoor living. Both are fully operable for full-room ventilation.



Easy cleaning.

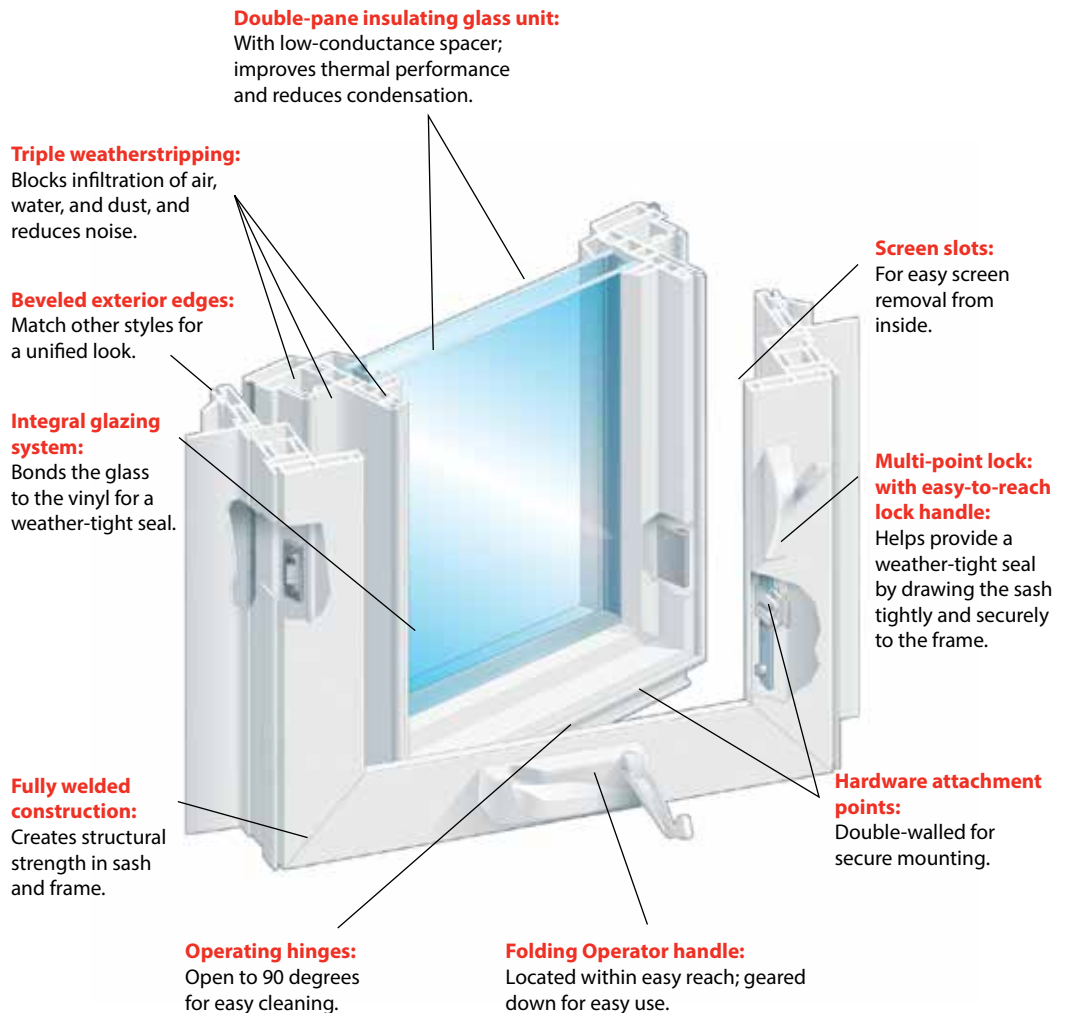
Specially designed hinges open to a full 90-degrees and allow access to the outside sash surfaces from inside the home.



Easy to open, easy to close.

Located within easy reach, the operating hardware requires very little effort to use, as the crank is geared down and hinges are designed to bear the load easily.

CASEMENT WINDOW SHOWN



1680 Slider Windows

Slide into something that will spice up any space.



Because fresh air, natural light and viewing area are welcomed in any corner or space in your home; MIWD's slim profile gives even the smallest room in your home an open air outlook on life.

A vast offering of styles from single double sliders, or even three-lite or vent styles to expand your design horizons. Color coordinated hardware just adds to the clean, continuous lines of the windows without the need to cover them up making the slider the picture perfect way to add a little something to every little space.



Easy cleaning.
Operable sashes lift out for easy cleaning from the inside. For added security, closed and locked sashes cannot be removed from the exterior.



Optimum viewing area.
Slim profiles, color-coordinated hardware, and a large viewing area give you clean, continuous lines and an unobstructed outlook.

Double-pane insulating glass unit:
Double-pane glass with low-conductance spacer improves thermal efficiency and reduces condensation.

Integral glazing system:
Bonds sash to glass for a weather-tight seal.

Exclusive cam-type lock and keeper:
For positive weather-tight seal.

Beveled exterior edge:
Creates the look of hand-crafted windows.

Double weather stripping:
Blocks air, water, and dust, and reduces noise.

Molded-in pull rail:
Permits easy sash operation.

Lift-out sashes:
For easy cleaning from inside.

Sash stop on double sliders:
So sashes do not overlap when opening.

Fully welded construction:
Creates structural strength in sash and frame.



1600 Picture & Transom Windows

Picture your home with a panoramic point of view.



MIWD's combination of picture and transom windows captures all the details of the big, unobstructed views surrounding you. While the picture window provides the perfect panorama, the transom provides extra height and additional light. It's your personal window on the world. In fact, you can almost think of the MIWD picture and transom combination as a wide-screen movie formatted to full screen for your viewing pleasure!



More light.
Picture windows are a highly cost-effective way to fill a room with light or open it up to a view.



Design flexibility.
Use double-hungs alone or with other MIWD styles to create big and beautiful combinations.



Double-hung and transom windows give a room an added brightness and height.



Window walls, like this, made from picture windows and transoms, open a room to the beauty of the outside.



Picture windows are a highly cost-effective way to add light to a room.



Combination windows — this one is a picture window flanked by double-hungs and topped by a half-round — dramatically emphasize architectural space.

1600 Architectural Shapes™ — Geometric Windows

From every angle, turn expression into impression.



Architectural Shapes™ geometric windows let you add full-featured distinction to your home's exterior at about half the cost of wood windows. And since they're loaded with energy-saving features, these windows aren't just beautiful; they're beautifully efficient.

Select from nearly a dozen shapes, or create your own to highlight your home's personality and points of interest, or simply to grace a space with sunlight.



A unique appeal. A feature combination, like this half-round flanked by quarter-rounds, can add dramatic personality to a large or small home.



Under the eaves. A tall window like this fixed extended arch flanked by double-hungs can open up a top floor.



Dramatic lighting. The height of this twin double-hung topped with a half-round creates a sense of light and space that makes a small room seem light and airy.



Custom built shapes. Any straight-sided shape, like these triangles, can be custom-built to complement and feature a combination or fill a nook.



A refined look. The subtle curve of an extended arch can bestow a classic grace on an entire room.

1600 Bay & Bow Windows

Add dimension and bring daylight to your home!



MIWD bay and bow windows genuinely bring dimension and more sunlight to a space, both inside the home and from exterior viewpoints, opening up your home to bright new possibilities.

The angle of the bay created from a combination of a central fixed window and a double-hung window on each side provides architectural interest, spaciousness and additional light to any room. The bow window, consisting of casement windows, is the ideal way to bring in maximum sunlight and gentle breezes, while creating a more spacious view of the world around you.



A 30° bay of casements adds architectural interest outside and offers optimum ventilation inside.



A 30° bow of double-hung windows adds architectural interest outside and offers optimum ventilation inside.

SHOWN WITH DOUBLE-HUNG WINDOW

Chain suspension system:
Secures window structure to frame of house for strength and stability.

Fusion-welded frames and sashes:
For structural strength.

Tie rods:
Tie head and seatboards for optimum strength.

Head and seatboards:
Foam core adds insulation.



Insulating glass unit:
Double-pane glass with low-conductance spacer achieves excellent thermal efficiency and reduces condensation.

Interior covers:
Create a smooth, carpentered look with no exposed joints, hardware, or sealants.

Exterior covers:
Provide weather-tight finished edges.

Oak head and seatboards:
Can be stained or painted.

1600 Standard & French Patio Doors

A door should be more than an entrance – it should be an



opening event.

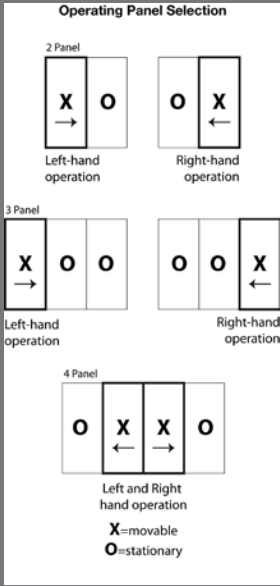
MIWD patio doors, Standard and French, are without a doubt the perfect complement to the most important architecture anywhere—the home you design and build. More than an entryway, they're a statement of who you are and your view on life, so why not make it an opening event.

The real beauty of MI patio doors lies in the fact that their beauty is more than skin deep. Dependable security, high durability and easy operation are just a part of the inside story on how MIWD has transformed a good idea into great door for every home style.

It's the door that let's you tell the world, "I've arrived."



With your selection of Standard or French rail styles, it's easy to make your statement in either a bold or classic way with two-, three-, or even four-panel options. Combined with a selection of sidelites and transoms you can also make it as big as you like.



High durability.

Anodized aluminum threshold is thermally broken to create a barrier that resists frost build-up. Easy-to-clean track designed to guard against air and water infiltration.



Easy operation.

Two sets of adjustable, stainless steel, wide-diameter rollers with encased bearings provide a smooth glide.



Color choices.

Choose white or tan vinyl with color-matched hardware. Optional Oil Rubbed Bronze, Brushed Nickel and non-tarnishing, gold-coated interior handle.



Dependable security.

2-panel and 3-panel doors have a standard two-point lock; four-point lock is optional. 4-panel door has a four-point lock and a shoot bolt in the header. Exterior key lock (shown above) is optional on all doors.

With plants across the country, MI Windows and Doors is one of America's most respected manufacturers of vinyl, aluminum and composite window and door products. Since 1947, we've focused on great people making great products. To us, "Seeing You Through" is a philosophy that goes beyond the factory, beyond the warehouse, and right into each home and construction site. It's what drives us to manufacture products that are complete, accurate and delivered on time. But most of all, it's why our customers place their trust in us.



Individual products may be subject to a variation in performance.

For additional product information, technical documents, installation instructions and warranty information, please visit: www.miwd.com



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