

A modern multi-story apartment building with balconies and large windows. In the foreground, there is a courtyard with artificial grass, a black pergola, and people relaxing. A woman is sitting in a wooden chair reading a tablet, while a man and a woman are playing catch with a ball. The building has a mix of light grey and white panels, with some balconies featuring metal railings. The sky is clear and blue.

MILGARD®

V450 Series

VINYL WINDOWS AND PATIO DOORS

VERSATILE DESIGN
TRUSTED QUALITY
DEPENDABLE PERFORMANCE

By MITER Brands™

V450



WHY WE'RE THE RIGHT CHOICE.

MILGARD offers beautiful, worry-free windows and patio doors to frame each of life's little moments. Our exacting manufacturing processes and the innovations we develop mean you get reliable windows and doors that perform year after year. With MILGARD, you'll receive a level of service and quality others simply can't match, backed with an industry-leading warranty.



MILGARD®

Framing possibilities in a new light

The path to delivering the right window and door solution has never been more clear. MILGARD delivers reliable, high-performing products built to meet the demands of today's projects. With precise manufacturing processes and continuous product innovations, we ensure consistent quality and long-term performance you can count on—backed by responsive service and an industry-leading warranty. From residential developments to large-scale projects, you'll find the products and support to deliver with confidence.

**EXPERIENCE
IS EVERYTHING**

With decades of proven results and a reputation built on reliability, we're the partner you can count on—project after project.

**CONFIDENCE TO
CREATE**

Every detail matters. From robust testing and precision manufacturing processes to a relentless pursuit of quality, our products are designed to perform, so you can focus on building.

**EVERY DETAIL,
EVERY DAY**

Our experts collaborate with you to match the right products to the right project—balancing design, performance, and budget—while delivering the service and support your business requires.

Designed to deliver. Every time.

The V450 Series is built on durable vinyl construction with multi-chambered frames that support strength and efficiency. With advanced spacer technology for long-term seal performance, multiple color options for design flexibility, and hardware that balances security with a clean profile, the V450 provides a reliable solution for a wide range of projects.

OPERATING STYLES

WINDOWS



Single-Hung



Casement



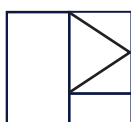
Awning



Horizontal Slider

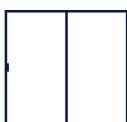


Picture

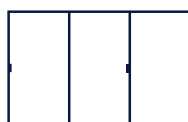


Combination Units

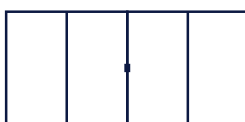
PATIO DOORS



2-Panel Sliding Door



3-Panel Sliding Door



4-Panel Sliding Door



See our entire
V450 Series
offering online!



HARDWARE

Low-profile hardware

The recessed lock and keeper create a tighter, safer seal while enhancing the style to keep you focused on the view.

TIMELESS APPEAL

Stylish frames

Stylish frames and sash profiles can help enhance the curb appeal of your home to help make a lasting impression for years to come.



Performance

Every project has requirements—and performance is where the V450 Series delivers. The table below highlights key ratings and size ranges so you can quickly evaluate how the line measures up to structural, energy, and acoustic needs.

Operating Style	Min (Callout)	Max (Callout)	PG Ratings	U-Factor (Energy)	SHGC (Energy)	STC (Sound)
Horizontal Slider	2010	7060 or 8050	PG25-40	0.23 to 0.36	0.19 to 0.49	28-39
Single Hung	1020	4080	PG30-45	0.23 to 0.36	0.19 to 0.49	28-40
Picture	1010	8060 or 1040	PG30-65	0.21 to 0.39	0.21 to 0.53	29-42
Casement	1416	3660	PG50-60	0.23 to 0.33	0.16 to 0.40	30-41
Casement Fixed	1010	7060 or 8050	PG50-60	0.23 to 0.33	0.16 to 0.40	30-41
Awning	1616	5030	PG30-60	0.22 to 0.33	0.16 to 0.40	29-38
2-Panel Sliding Door	2620	10080	PG15-30	0.21 to 0.46	0.16 to 0.60	29-35
3-Panel Sliding Door	6020	12080	PG20	0.21 to 0.46	0.16 to 0.60	29-35
4-Panel Sliding Door	7620	16080	PG20	0.21 to 0.46	0.16 to 0.60	29-35



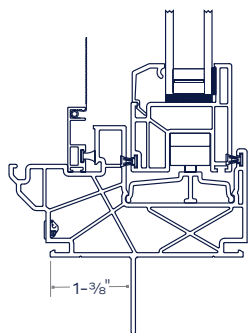
For More Technical
Resources visit
[milgard.com/
technical-resources](https://milgard.com/technical-resources)

INSTALLATION CONFIGURATIONS

Choosing the right frame type doesn't need to be complicated. The V450 Series offers multiple installation options to suit different project requirements—whether you're working on new construction, remodels, or masonry applications.

Block

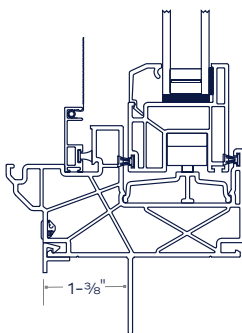
Commonly used in replacement projects, this option fits into the existing frame to preserve both interior and exterior finishes.



1 3/8" Mounting Fin Set-back

Nail Fin

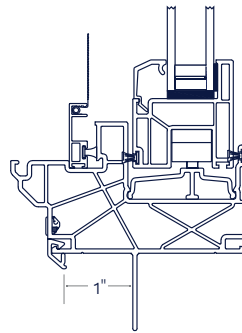
A standard choice for new construction or remodels with open studs. The fin fastens directly to the rough opening for a secure installation.



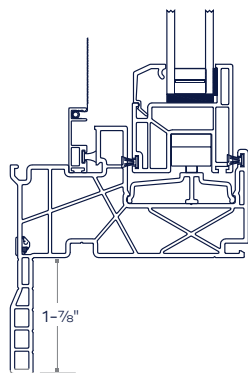
1 3/8" Mounting Fin Set-back w/ Stucco Key*

Z-Bar

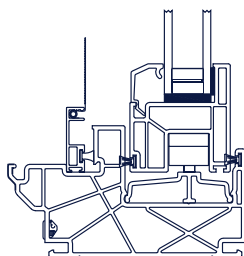
Designed for masonry or stucco applications, the exterior flange covers and seals the frame for a clean, finished look.



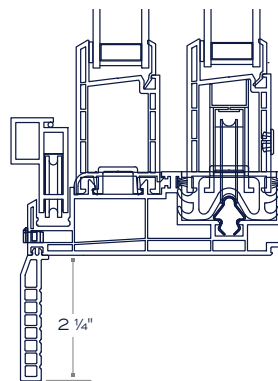
1" Mounting Fin Set-back



1 7/8" Contoured Flush Fin*



Block



2 1/4" Contoured Z-Bar

* Available on windows only

** Wide flush fin available on V400 door only



OUR APPROACH

The V450 Series is engineered to perform where it matters most—sealing out the elements, supporting energy efficiency, and maintaining long-term reliability. With proven construction and thoughtful details, these windows deliver the consistent results today's projects demand.

Window features

1 VINYL FRAME

Welded, multi-chambered vinyl frame and sash built for strength, durability, and thermal performance.

2 SECURE SEAL

Recessed lock and keeper hardware for a clean look and tighter, more reliable closure.

3 WARM-EDGE SPACER

Improves seal performance of insulated glass units while enhancing overall efficiency.

4 ENERGY EFFICIENT

Our products are engineered to help meet today's most stringent energy codes with performance designed for regional climates.

5 LIFETIME LIMITED

Backed by MILGARD's commitment to long-term product support.



Options that fit every project

The V450 Series offers a range of operating styles designed for dependable performance and ease of use on the jobsite. Hardware options are engineered for smooth operation and secure closure, with finishes that coordinate across applications for a consistent look.

HARDWARE



Cam Lock

- Single-Hung
- Horizontal Slider



Auto Lock®

- Single-Hung
- Horizontal Slider

HARDWARE FINISHES



White



Adobe

CASEMENT/AWNING HARDWARE OPTIONS



Folding Nesting Operator

- Casement
- Awning



Fold Down Roto Oversize Handle

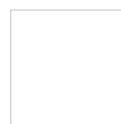
- Casement



Sash Lock

- Casement
- Awning

HARDWARE FINISHES



White



Adobe



For more information on the V450 Series visit milgard.com/V450



Strong performance. Flexible design.

The complimentary V400 Tuscany® Series sliding patio door is engineered for durability and smooth operation across a range of project needs. Available in two-, three-, and four-panel configurations, it can accommodate sizes up to 16 feet wide by 8 feet high, providing expansive openings with reliable performance. Built for strength and long-term operation, this door delivers a clean, functional design that supports both residential and multi-family applications.

HARDWARE

SLIDING DOOR



SmartTouch®
Handle



D-Handle

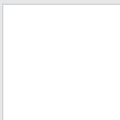


Decorative Handle
Upgrade
(interior only)

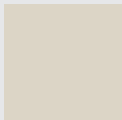


Exterior Sliding
Handle
(available keyed
or unkeyed)

HARDWARE FINISHES



White



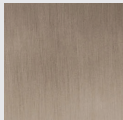
Adobe



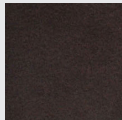
Black



Brushed
Chrome*



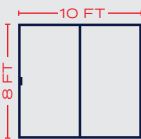
Satin
Nickel*



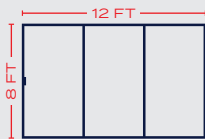
Oil Rubbed
Bronze*

Standard hardware color
matches the door color.

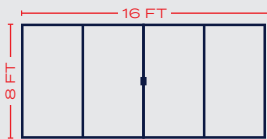
MAXIMUM DOOR SIZING



2-Panel



3-Panel



4-Panel

Door sizes and
configurations of moving
and fixed panels vary by
location; please consult
your MILGARD dealer for
doors available in your area.



See our entire
V450 Series
patio door
offering online!

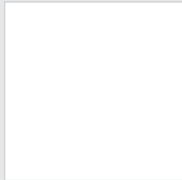
*Brushed chrome, satin nickel, and oil rubbed bronze hardware finishes available with decorative handle upgrade only.

Finishes that perform

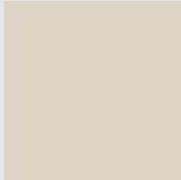
The V450 Series offers a range of finish options designed to complement project requirements while delivering long-term durability. With color-matched interiors and exterior choices that stand up to the elements, these finishes give you flexibility without sacrificing performance.

VINYL EXTRUSIONS

Solid vinyl extrusions provide consistent color distribution inside and out. Available in White or Adobe, both options include color-matched interiors for a cohesive look.



White



Adobe

CAPSTOCK

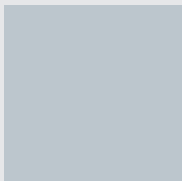
Capstock is an acrylic layer bonded to the vinyl profile for enhanced durability and UV resistance. Available in Black with a white interior, it ensures strong performance with a modern aesthetic.



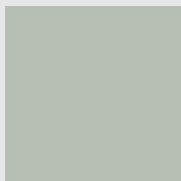
Black

GLASS

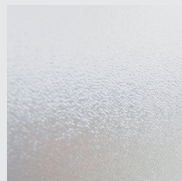
Choose from clear Low-E options or privacy glass to meet design and performance needs.



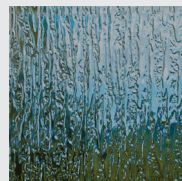
Low-E 340



Low-E 366



Obscure

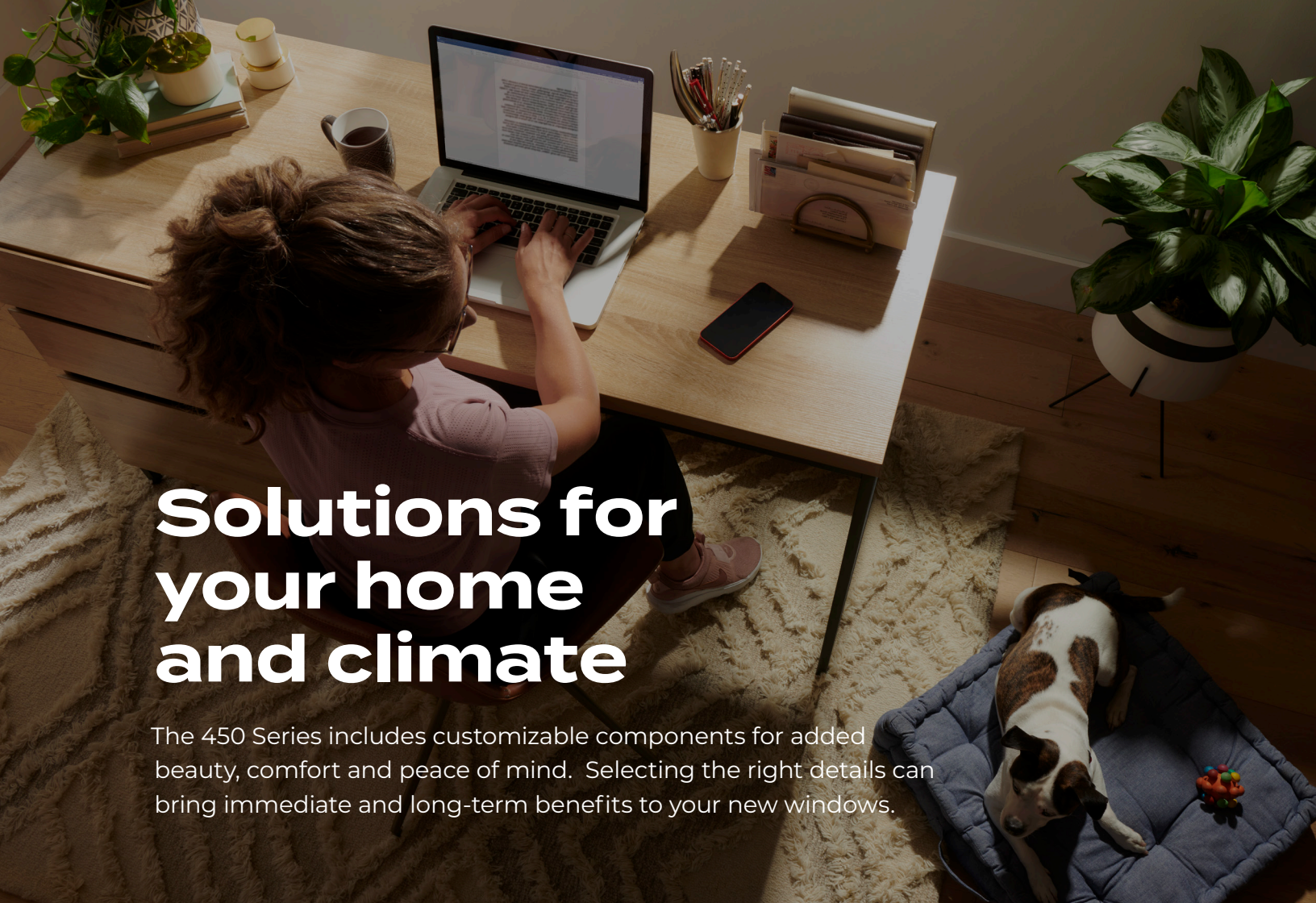


Rain

On-screen and printed color representations may vary from actual finish colors.



See even more
V450 Series
customization
options online.



Solutions for your home and climate

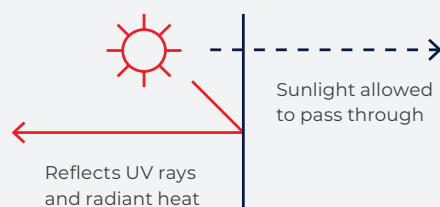
The 450 Series includes customizable components for added beauty, comfort and peace of mind. Selecting the right details can bring immediate and long-term benefits to your new windows.

ENERGY EFFICIENCY

Our products are engineered to help meet today's most stringent energy codes. Warm-edge spacers reduce conductivity, improve argon gas retention, and increase condensation resistance. Low-E coatings reflect heat while allowing in natural light—supporting efficiency and comfort across a wide range of climates.

What is Low-E?

Low-E glass blocks the bad stuff and lets in only the light you want.



NOISE REDUCTION GLASS

Select glass configurations designed to help reduce exterior noise intrusion, with performance ratings up to STC 42. These options support acoustic comfort while maintaining energy performance, providing a practical, cost-effective approach to sound control.

Sound Transmission Classification (STC)

The higher the STC Value, the greater the noise reduction.

20	26	28-30	33-37	39-42	36
Typical Single Pane Glass	High Performance Dual Pane Glass	V450 Dual Pane Glass	V450 Dual Pane with Offset Glass	V450 Dual Pane Laminated Glass	Typical 2x4 Insulated Wall

CHANGES IN STC RATING

+/- 1

+/- 3

+/- 5

+/- 10

CHANGES IN APPARENT LOUDNESS

Almost imperceptible

Just perceptible

Clearly noticeable

Twice (or half) as loud

Sound reduction in windows and doors is tested and most commonly rated for comparison using a Sound Transmission Class (STC) rating. V4550 windows are tested and rated to ASTM E(90) for Sound Transmission (test sizes per ASTM E1425). STC ratings will vary by product type. Data compiled from stcratings.com

GRIDS

Grids between the glass provide easy cleaning and low maintenance, while simulated divided lites (SDLs) offer a more traditional appearance.



5/8" Flat Grids
Between the Glass



15/16" Sculptured Grid
Between the Glass



5/8" Sculptured Simulated Divided Lites



15/16" Sculptured Simulated Divided Lites



OUR COMMITMENT TO YOU

We have a dedication to quality and build our windows and patio doors to last. With the V450 Series, you're covered with our Lifetime Limited Warranty. See complete details at MILGARD.com/warranty

See complete details at
milgard.com/warranty

OUR GOAL IS 100% TROUBLE-FREE

With a goal of 100% trouble-free, our teams work tirelessly to help ensure your project stays on track.

From regular inspections and quality audits throughout the manufacturing process, we strive to ensure that the final product you receive meets our high standards.

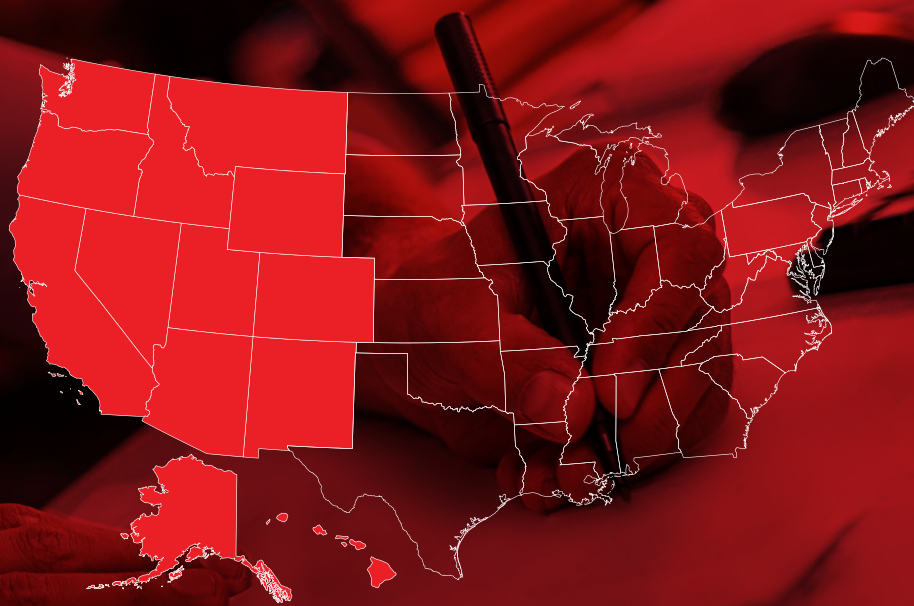
In addition, most MILGARD windows and patio doors carry the American Architectural Manufacturers Association (AAMA) Gold Label to show they have met their strict requirements, which are tested and certified by a third party. This rigorous testing includes water penetration, air leakage, structural integrity, and forced entry resistance.



Backed by MITER Brands

Nationwide strength, regional expertise – windows and doors for every project. At MITER Brands, we bring together the power of MI, MILGARD, and PGT to redefine the window and door industry. With a commitment to precision manufacturing, uncompromising quality, and continuous innovation, we deliver solutions that builders and homeowners trust.

With nearly two dozen fabrication centers across the U.S. and parts of Canada, we provide energy-efficient, high-performance windows and doors tailored to regional needs. Our diverse product portfolio—including vinyl, aluminum, and fiberglass windows, sliding and swinging patio doors, and moving glass wall systems—ensures the right solution for every project.



V450 SERIES

MILGARD®
WINDOWS and DOORS

Success means getting it right
in every detail, every time.
Build boldly with MILGARD.

MILGARD.com

By MITER Brands™

A family of leading window and door
brands, united by our passion for
quality and relentless pursuit of 100%.

miterbrands.com

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