

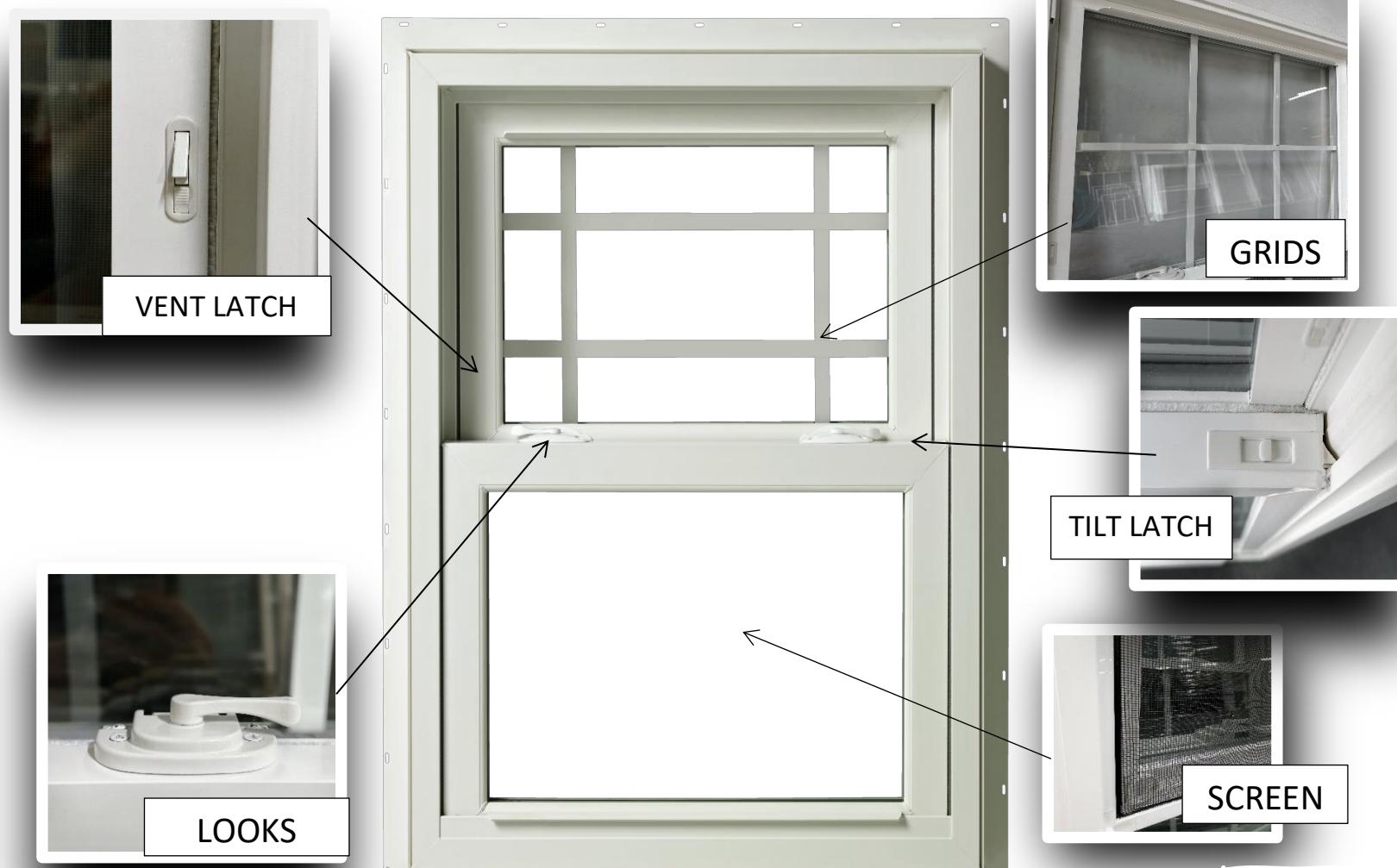


DOUBLE HUNG

Double hung windows feature two vertically sliding sashes held in frame on tracks. Both sashes can open, allowing for variable ventilation.

3000 series

- Block & tackle balances for superior operation
- Mulls to 3 1/4" frame fixed and operable products
- Tilt sash for ease of cleaning
- Maintenance-operated tilt-release mechanism
- Extruded automatic head and sill latches
- Full-length extruded lift handles

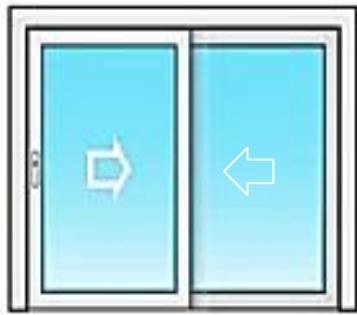
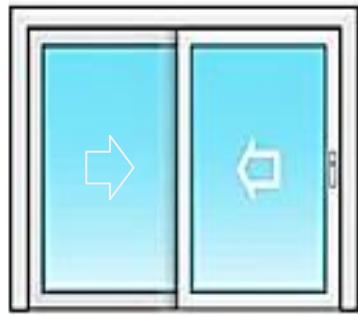




SLIDER

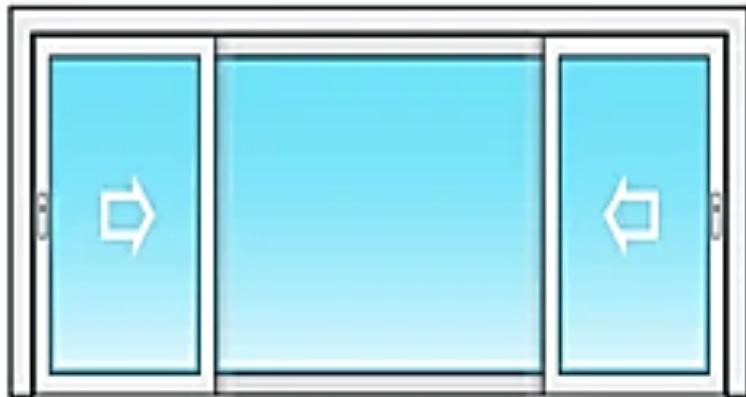
Sliding windows easily glide open horizontally from the left or right, providing a wide view and full ventilation. Choose from a 2-lite slider or a 3-lite slider window that features a large picture window with operable end vents.

2-LITE SLIDER



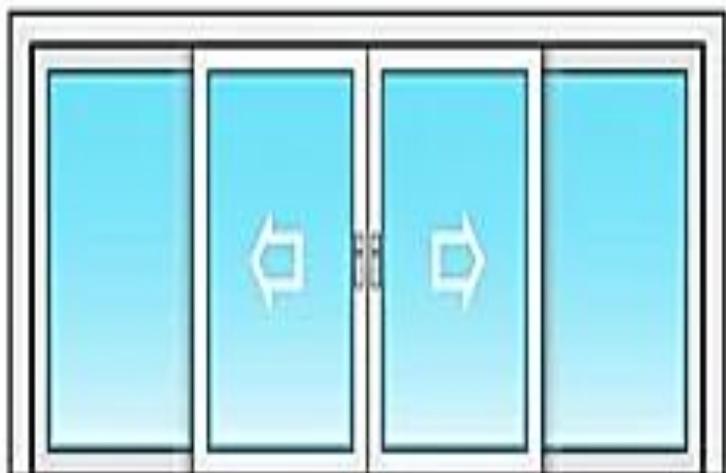
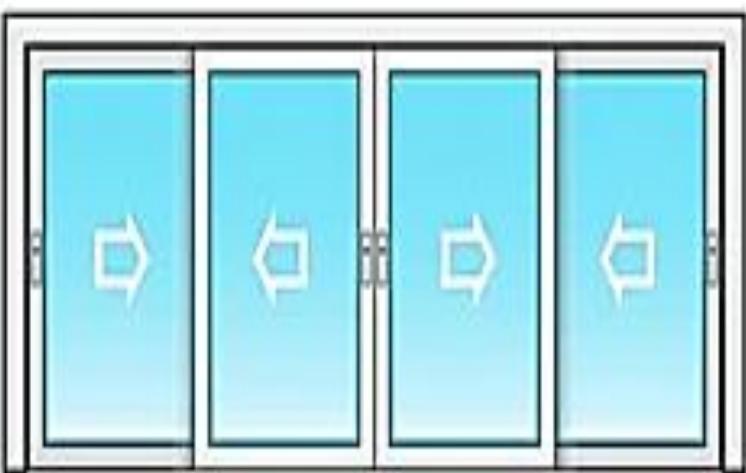
A two lite slider window will have two panes of glass; one which is stationary or “fixed” and the other pane moves side to side for easy operation.

3-LITE SLIDER



3-Lite slider windows have three panels (or sashes) within one master frame. All American Window and Door sliding windows have no roller tracks, allowing easy movement without the worry of roller failure.

4-LITE SLIDER

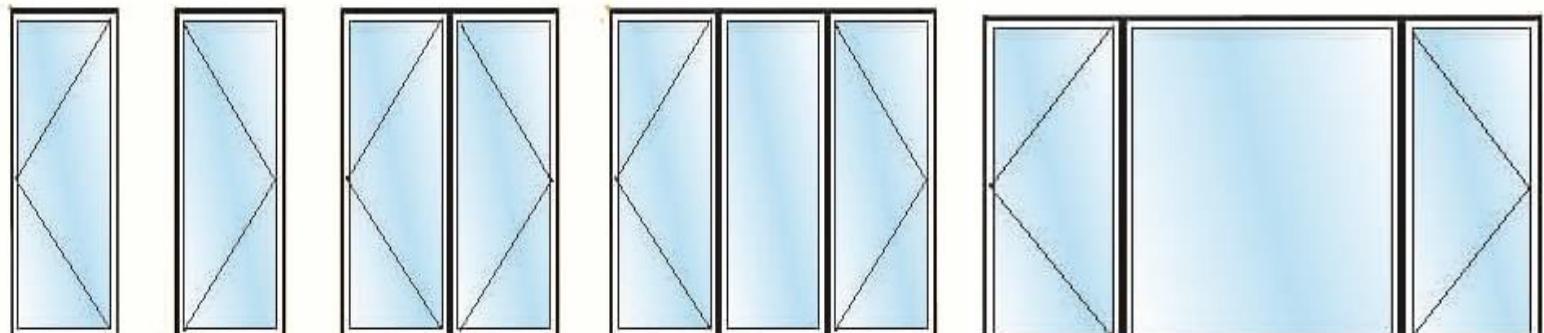




CASEMENT

Casement windows are hinged on the side and crank open outward to the left or right allowing for full top to bottom ventilation.

CASEMENT TYPES

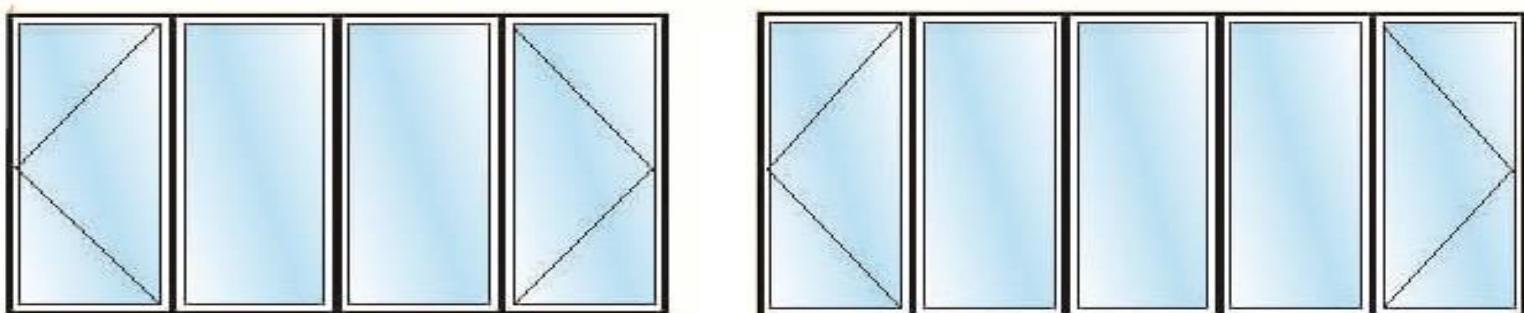


Casement
left or right

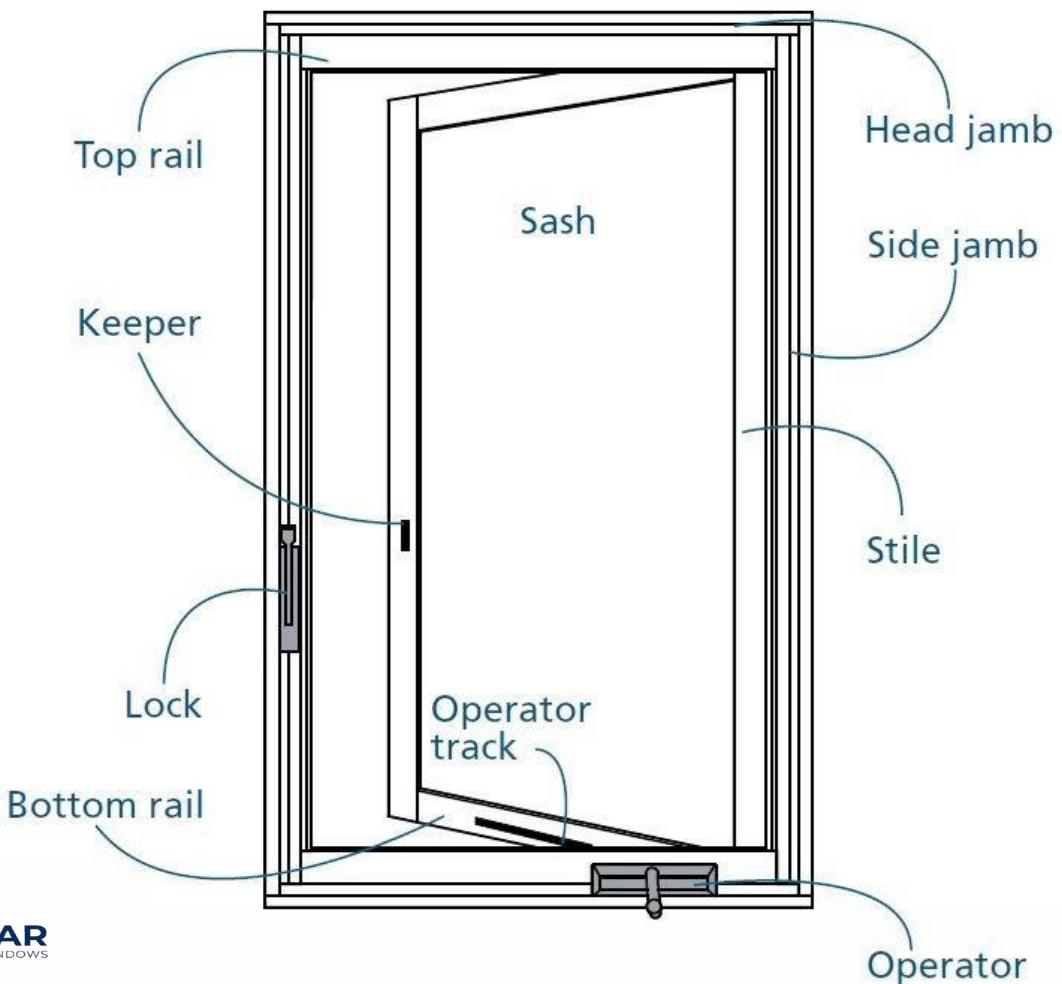
2 Lite
Casement

3 Lite Casement
equal

3 Lite Casement
50% center



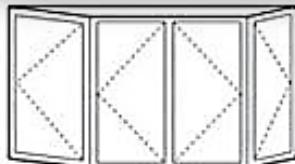
CASEMENT WINDOW ANATOMY



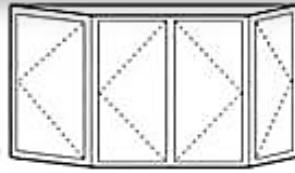


BAY & BOW

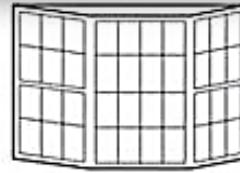
	BAY WINDOWS	BOW WINDOWS
WINDOW SIZE	Exterior walls with 40 inches or more of space	Exterior walls or corners with 80 inches or more of space
NUMBER OF WINDOWS	3 windows 30° and 45° angles	4 or more windows Creates a more subtle curve
VENTILATION	A picture window in the middle is typically flanked on either side by casement or double-hung windows	Commonly created with picture windows that do not open
COST	\$\$\$\$+ Less expensive than bow windows	\$\$\$\$+ More expensive than bay windows
COMMON HOME STYLE	Transitional Contemporary	Traditional Victorian



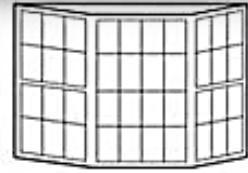
30° Bow–Casement–Casement–Casement–Casement



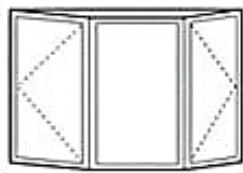
45° Bow–Casement–Casement–Casement–Casement



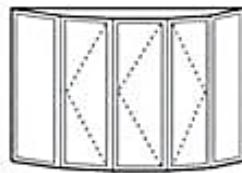
30° Bay – DH–Picture–DH



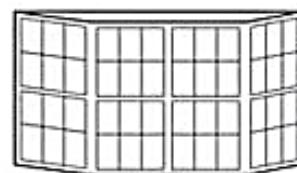
45° Bay – DH–Picture–DH



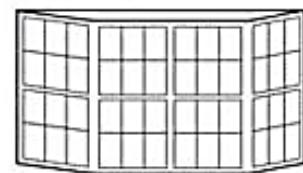
10° Bay–Casement–Picture–Casement



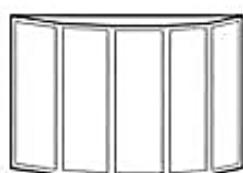
10° Bow–Picture–Casement–Casement–Casement–Picture



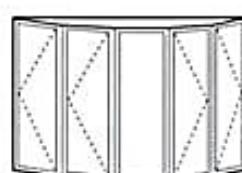
30° Bow–DH–DH–DH–DH



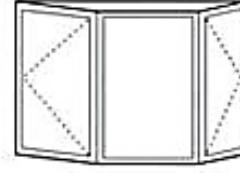
45° Bow–DH–DH–DH–DH



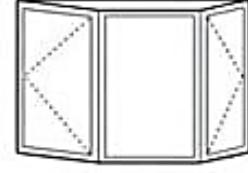
10° Bow–5 Pictures



10° Bow–Casement–Casement–Picture–Casement–Casement



30° Bay–Casement–Picture–Casement



45° Bay–Casement–Picture–Casement



SHAPE

Specialty shape windows let you choose from a variety of uncommon shapes, including elegant arches, striking angles and compelling curves.



Used alone or in combination with other windows, they add curb appeal and enhance the character of your home.



EXTRAS

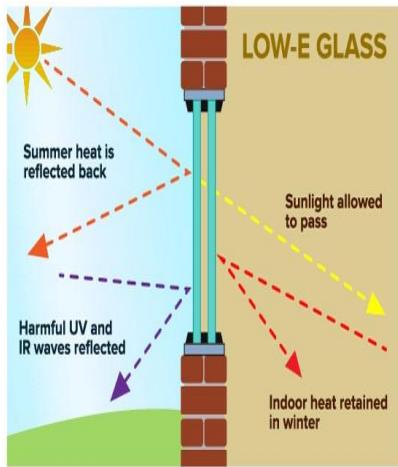
NAILING FINS FOR NEW CONSTRUCTION

Nail fins/ FLANGE are semi-flexible strips of vinyl used to attach a windows frame to a stud opening.



GLASS OPTIONS

Low E



FROSTED



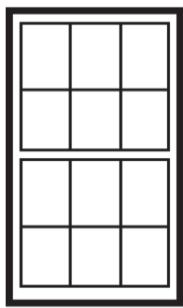
TEMPERED



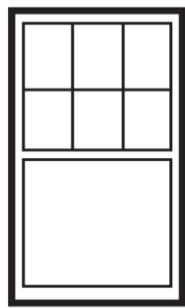
ARGON GAS



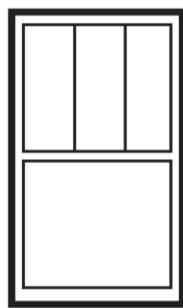
GRIDS



Colonial



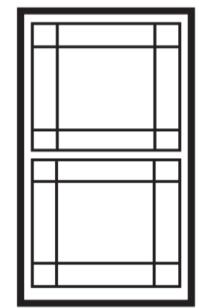
Colonial



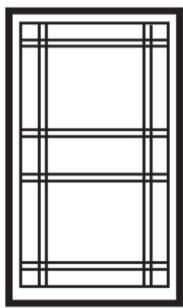
Vertical



Horizontal



Single Prairie

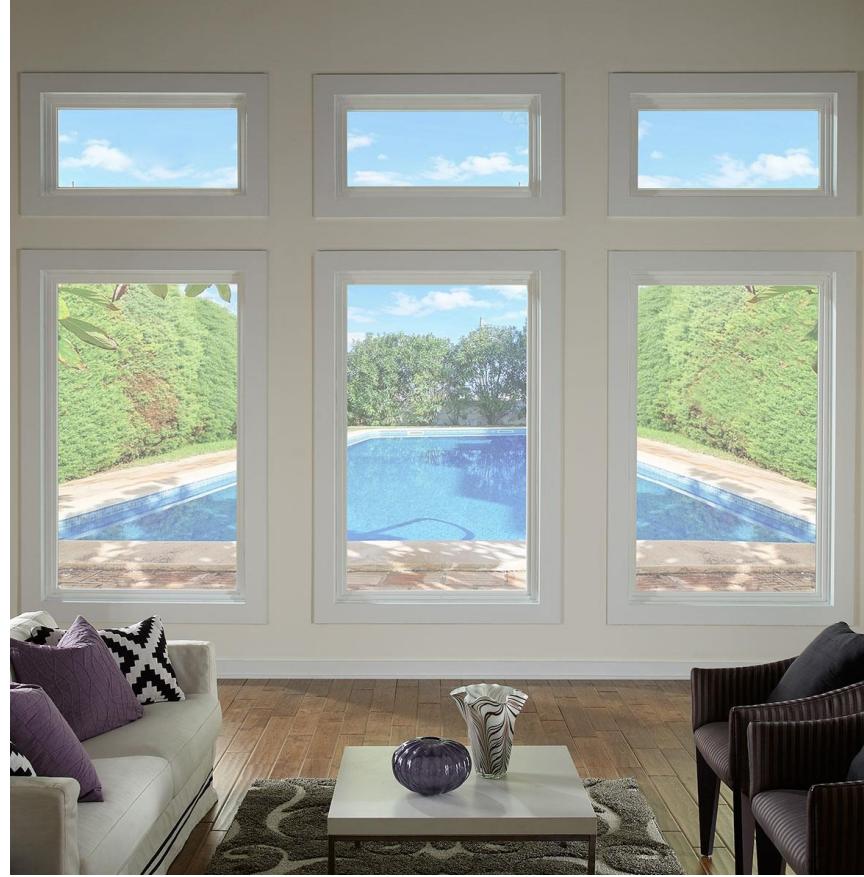


Double Prairie

PICTURE WINDOWS

A **picture window** is exactly what it sounds like: a window that creates an unobstructed picture of your outside surroundings.

A picture window consists of a single pane of glass without any rails to obstruct the view.





BLACK WINDOWS



Black windows work well in mild and cold climates, as the dark color attracts the sun.



They are also a stylish choice in modern homes, complementing sleek and minimalist aesthetics.

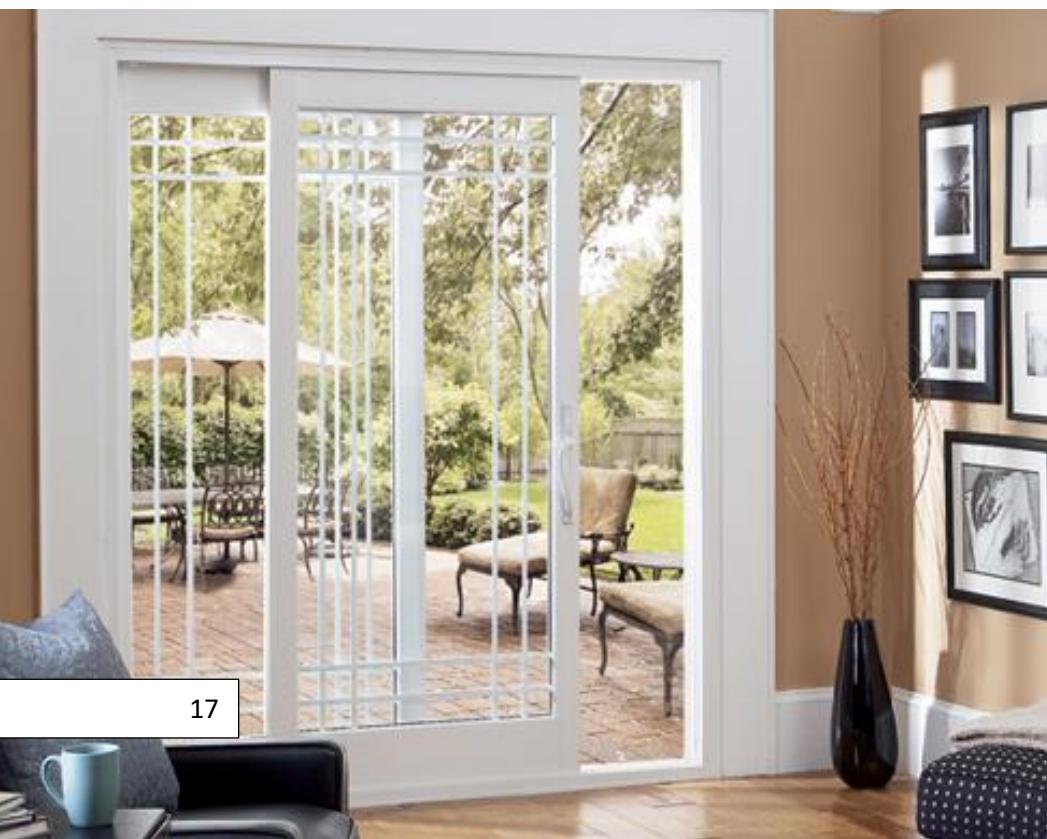
Patio Doors

PVC doors enables you to meet all your requirements. The flexibility of our models lets you configure our doors to suit your market, your customer's design and functionality goals, and your geographic region and climate conditions.

- Multiple units
- Standard two-panel, up to four-panel
- Fixed and operable panels
- Sidelights and transoms for even more daylight
- All in a variety of colors and finishes

200.200 PVC Patio Door

- Mechanical frame options
- 1" IG capable
- Field reversible
- Dedicated transom and side lite frame
- Heavy interlocks
- Multiple hardware configuration
- Dual rollers places for panel weight transfer







EUROPEAN SYSTEMS



BI-FOLD DOOR 4500

BOASTS SUPERIOR DESIGN AND ENGINEERING:

KEY FEATURES AND BENEFITS

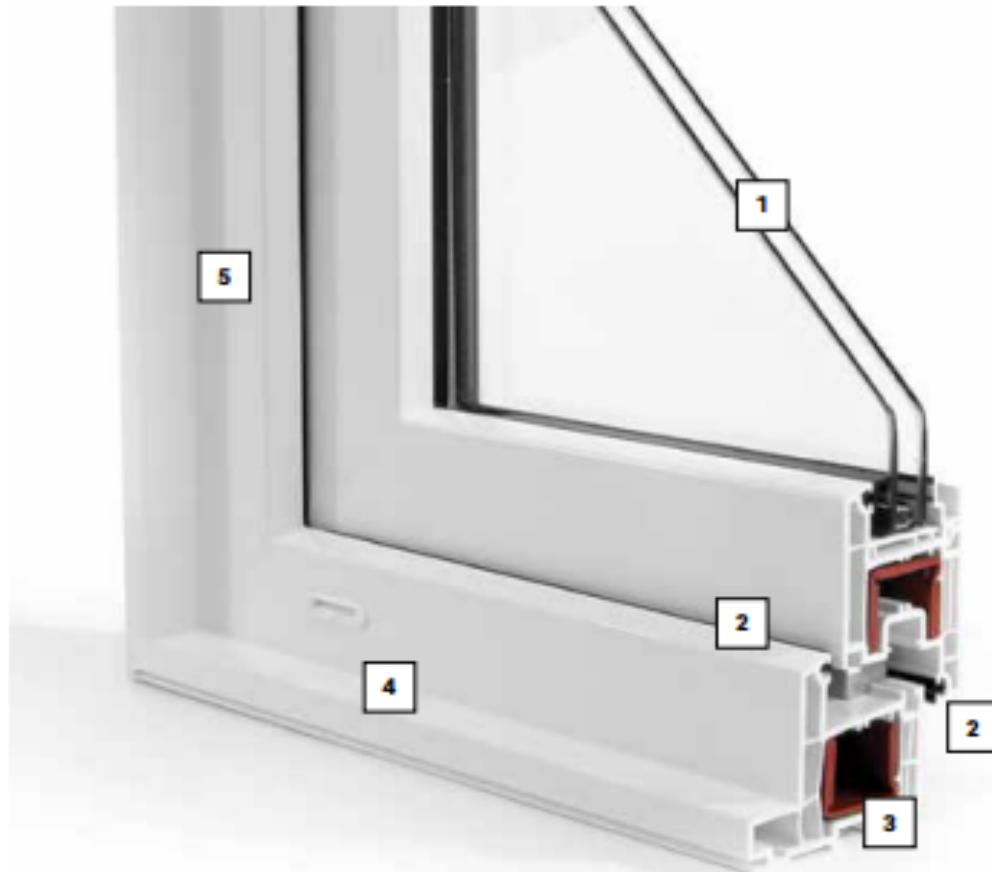
- 1 Large glazing capacity of up to 1 3/8 in (35 mm) in thickness** improves energy efficiency and acoustical properties
- 2 Large reinforcement chambers in the sash** allow for sash sizes as large as 7.5 ft (2.4 m) high and 3 ft (0.9 m) wide, weighing up to 175 lbs (80 kg)
- 3 Four-chambered sashes and frames** provide high energy efficiency
- 4 High-quality hardware** operates quietly and effortlessly
- 5 Lever-locking mechanism** securely closes the end panel of the bi-folding sashes
- 6 Multiple locking points and compression seals all around the sash perimeter** provide water tightness, minimal air infiltration, security and good sound insulation



TIlt-Turn Windows 4500

REACHING TOP PERFORMANCE

WITH OPERATING AND FIXED DESIGNS



1 Up to 1 3/8 in (35 mm) glazing capability

Increases both energy efficiency and acoustical properties

2 Multiple locking points and dual weather seals

Create a tight seal against sound, air and water infiltration

3 Large chambers

Accommodate robust reinforcements required in heavy commercial applications

4 Frame accessory groove

Accepts a variety of accessories such as brickmolds, extension jambs and mulling components to couple window elements

5 3 1/4 in (83 mm) North American frame depth

Allows for hassle-free replacement installation; 2 3/8 in (60 mm) European frame also available



3 windows style in 1

A secure top venting hopper in the tilt position, an inward opening casement in the turn position and a tightly-sealed fixed window when closed.

A vinyl window that can achieve an AAMA AP-HC100 rating – impossible! Or perhaps not.

The outstanding performance of the REHAU EuroDesign 4500 window design is one of North America's best kept fenestration secrets. uPVC windows not only far exceed aluminum on thermal performance; they can also meet the highest available structural standards.

- Fusion-welded corners enhance structural strength and offer a cleaner finish
- Dual overlapping neoprene gaskets provide a tight seal against air and water infiltration
- Galvanized steel-reinforced chambers add structural strength and energy efficiency
- Insulated glass up to 1 3/8 in (35 mm) thick achieves U-values down to 0.17 (R.88)
- Multi-point locking system increases security
- ADA-compliant hardware solutions achieve disability design goals



CONTACTS

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minmarwindows.com

PRODUCTS

Double Hung

Slider

Casement

Awning

Bay & Bow

Shapes

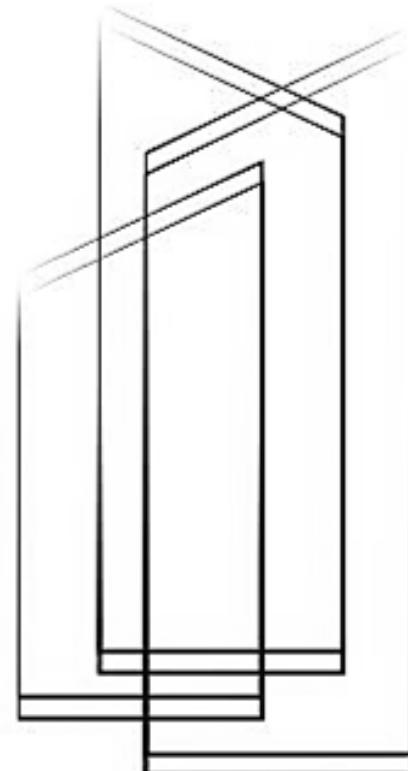
Picture Windows

Black Windows

Doors

European Systems

Screens



**Minmar Wholesale
Windows**