

**vinylmax**  
windows



THE  
**4700**  
SERIES

# WHY VINYLMAX?



**Quality First.** In our facility, we utilize the most modern manufacturing methods and technology to produce the highest quality vinyl replacement windows. This results in the best value for your home.



**Family Values.** As a family owned and operated business, we value and respect our employees and their families as well as the millions of families who have our windows in their homes.



**Warranty.** To protect your investment and our reputation, we back our products with a Lifetime Limited Warranty so strong that it will exceed your expectations.



**Made in the USA.** Vinylmax is passionate about American manufacturing, American jobs and the American economy. That is why we source the majority of our components from other American manufacturers and fabricate our windows in our Ohio and New York factories. When you buy Vinylmax windows, you can be sure you are not only getting American quality, but also supporting and sustaining local communities.



**Our Story.** Founded in 1982 by the Doerger family and manufacturing a mere five windows per day, the Vinylmax legacy began to unfold. As one of the very first vinyl window manufacturers in the United States, Vinylmax embraced the philosophy that quality custom windows manufactured quickly would inspire loyalty in its customers.

Today the next generation of the Doerger family continues to embrace that philosophy. Millions of American homes are more beautiful and more energy efficient, thanks to Vinylmax windows.

## PASSION FOR HOMES AND FAMILIES



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windows

# DOUBLE HUNG

## STANDARD FEATURES

1. **Cove molded sash detail** replicates the look of classic wood windows.
2. **Biomaxx composite locks and keepers** are 50% stronger than standard die-cast hardware while remaining lead-free and color-true, without fading, warping or chipping. Choose from classic or modern lock.
3. **Dual Function partitioned sloped sill with integrated weep system** forms a negative pressure pocket that keeps sashes securely in place and water flowing away from your home, even during the most adverse weather conditions.
4. **Shadow grooved sash welds** replicate the classic look of mitered wood corners.
5. **IdeaSeal™ triple protection weather seal** keeps the indoor and outdoor environments separate with an integral interlock, sill compression bulb seal, and multiple rows of weatherstripping.
6. **Full balance covers** hide internal systems while eliminating unsightly visible sash stops.
7. **Integral lift and pull rails** are ergonomically engineered for smooth operation while remaining aesthetically appealing.
8. **Dual push-button forced entry resistant ASTM night locks** limit sash movement for your family's safety and security.
9. **Effortless pivot balance system** utilizes stainless steel coils making sash operation smooth, effortless and whisper-quiet.
10. **Multi-chambered vinyl construction** provides a maintenance-free lifestyle with superior strength and thermal efficiency.
11. **Low-profile tilt latches** sit subtly out of view but easily engage when sashes need to be tilted in for cleaning.
12. **Four-point fusion welding** guarantees the frames and sashes are always strong and square.
13. **BetterVue® insect screening with Water Shed Technology™** preserves optical clarity by shedding water and resisting dirt and grime for a sharp, more brilliant outward view with 20% better air flow.



## OPTIONAL FEATURES



### BASF Neopor® GPS

is a graphite polystyrene rigid foam insulation, strategically custom-fitted in energy chambers in the window frame and sash vinyl. It is comprised of many small pockets of air within a polymer matrix containing graphite. The graphite reflects radiant heat energy like a mirror, increasing the window's resistance to the flow of heat, or R-Value. NeoPor actually increases in R-value as the temperature outside drops. Neopor GPS earned GREENGUARD Gold Certification.



### Sentry System multi-function locking hardware

integrates the lock and tilt functions into the same lock housing, leaving an uncluttered appearance.



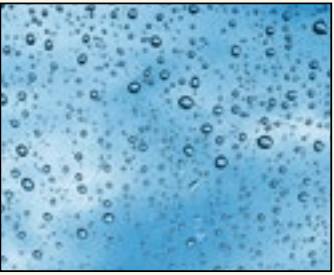
### Magnetically Sealed Sill

This two part sealing system provides extra assurance that air, water, dirt, and insects will not migrate into the home.



### Innergy® Rigid Thermal Reinforcements

provides the structural strength of aluminum with the energy efficiency of a proprietary fiber glass resin that is impervious to cold or heat.



### Clean and Clear Coat

Our two-step process on the glass exterior results in a durable, nano-protective polymer coating that repels water, soil and stains.

# 2 & 3 LITE SLIDERS

## STANDARD FEATURES

- 1. **Biomaxx composite locks and keepers** are 50% stronger than standard die-cast hardware while remaining lead-free and color-true without fading, warping or chipping.
- 2. **Lift out sashes** allow for convenient cleaning from inside the home.
- 3. **Multi-chambered vinyl construction** provides a maintenance-free lifestyle with superior strength and thermal efficiency.
- 4. **Integrated weep system** for efficient water management.
- 5. **Multiple rows of weatherstripping** reduce air infiltration.
- 6. **Integral pull rails** are ergonomically engineered for smooth operation while remaining aesthetically appealing.
- 7. **Full height interlock meeting rails** ensure drafts stay out.
- 8. **Ventilation latch** permits secure ventilation.
- 9. **Four point fusion welding corners** guarantees that frames and sashes are always strong and square.
- 10. **Tandem non-marking rollers** glide effortlessly on monorail track.
- 11. **BetterVue® insect screening with Water Shed Technology™** preserves optical clarity by shedding water and resisting dirt and grime for a sharp, more brilliant outward view with 20% better air flow.



On sliding windows, both sashes effortlessly open horizontally. They allow for easy ventilation while brightening up any room.



# ELEGANCE PATIO DOORS

## STANDARD FEATURES

- 1. **6" Multi-chambered, fusion welded vinyl frame** will never rot and allows for seamless installation.
- 2. **Operable and fixed panels** are reinforced to maximize structural integrity while also improving security.
- 3. **Both panels fully interlock when closed engaging multiple layers of weatherstripping** for a tightly sealed unit.
- 4. **Dual or triple pane tempered glass** options customize efficiency level.
- 5. **Heavy-Duty rollers** glide on our low-profile monorail track making operation smooth and quiet.
- 6. **Elegant interior and exterior color matched handles** are available with an optional keyed lock.
- 7. **Heavy duty adjustable extruded screen** stays rigid and glides easily in a dedicated track without bending or warping. **BetterVue mesh** showcases a clearer view.
- 8. **Low-profile threshold** allows for smooth passage.
- 9. **Left or right operable door** can be specified to meet any need.

### OPTIONAL BLINDS BETWEEN THE GLASS

By choosing our optional blinds, you take control of privacy, security, and daylight. Fingertip adjustment effortlessly operates tilt, raise and lower operations. Sturdy aluminum blinds are sealed between two panes of Low-E tempered glass. Blind are covered by 10-year warranty against material and operational defects.



## HARDWARE UPGRADES

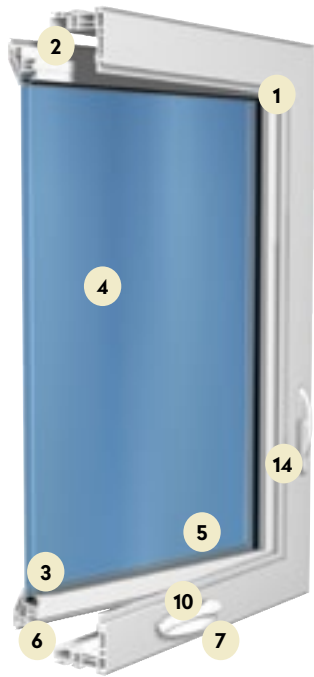


Keylock



Kick operated toe lock

# PRESTIGE CASEMENTS & AWNINGS



## STANDARD FEATURES

1. **Fusion welded frame and sash corners** are secure, weathertight and never pull apart.
2. **Multi-chambered vinyl frame and sash** are energy efficient, maintenance-free and last a lifetime.
3. **Beveled sash exterior** gracefully accents every architectural style
4. **Double paned IntelliGlass high performance insulated glass** produces optimal energy performance.
5. **Intercept warm-edge spacer system** has proven seal integrity and conducts less heat and cold than other systems.
6. **Color-matched compression seals** are foam filled and create a water and weathertight seal around the entire opening on both the frame and the sash
7. **Premium operating hardware** effortlessly handles the weight of even the heaviest sashes with smooth, quiet operation.
8. **Sealed operator housing and protected gear drive** minimizes contaminants from affecting operation.
9. **Patented laser-cut gear teeth** are hardened for superior strength
10. **Fold-down crank handle** subtly nests into the operator housing to prevent interference with window treatments.
11. **Sashes open a full 90 degrees** for both maximum ventilation and for cleaning both sides of the glass from inside the home.
12. **Multi-point locking system** secures the sash tightly into the frame in at least three locking locations
13. **Sequential lock operation** assists sash pull in for effortless locking of even the tallest windows
14. **Single lever lock handle** actuates the locking system with an audible click to signify open/closed positions
15. **Color Matched Screen** with concealed retention system and UltraVue excellent visibility screen mesh.

One, two and three lite configurations available.

# BAYS & BOWS



## STANDARD FEATURES

1. **Color-matched, weatherproof PVC exterior** is maintenance free and resists scratching and denting.
2. **Hand-selected 1-1/4" furniture-grade Birch or Oak hardwood interior** is 67% thicker than typical products and won't delaminate or show glued seams.
3. **Solid Timberstrand laminated wood mullion** construction with "walled in" window openings provide superior strength and will not twist or warp.
4. **6" threaded lagbolt construction** anchors the head and seatboard for support and durability.
5. **Veneer-banded edges** for a beautifully finished interior reveal.
6. **Eyebolt anchors and concealed adjustable cable support system** allows precise leveling of the window's pitch, while providing sturdy support.
7. **Optional low-voltage recessed lighting** highlights accent pieces.
8. **Optional insulated seat** increases comfort. Choose Superior R9 (as shown above) or Ultimate R21.

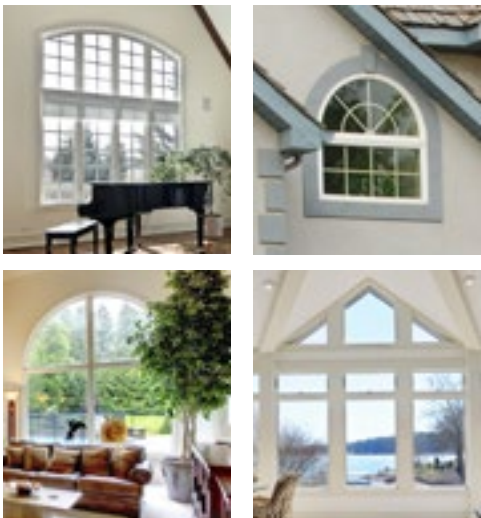
Bay and Bow windows add special space to any room and dimension to the home exterior. Bays and Bows are custom made to match your other windows and are available with double hungs, picture windows or casements. Three lite bays and three, four, or five lite bows available.



# PICTURE WINDOWS



Picture windows are fully fusion welded and maximize natural light. Architectural shapes are available.



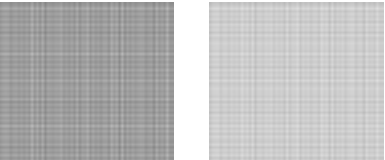
# SCREEN OPTIONS



Standard 1/2 Screen      Heavy Duty 1/2 Screen      Full Screen



High-performance PVC coated spring steel frame is damage resistant, beautifully invisible and effortless to install. Simply hold the screen in your hands, bend the sides in, and fit **FlexScreen** in to your screen track.



Typical Screen Mesh      **BETTERVUE** IMPROVED VISIBILITY INSECT SCREEN

## Benefits of BetterVue screen with Water Shed Technology



Water Shed Technology gives BetterVue a clear view for the life of the product by repelling water and resisting dirt and grime, making them much less likely to accumulate on the screen.


- Durable, hydrophobic coating will not wash off
- Sheds water and debris during rainstorm or with hose sprayer
- Preserves viewing clarity for more brilliant outward views
- Remains cleaner longer and increases life expectancy of the screening







# CHOOSE YOUR PERFECT LOOK








## COLORS

**Solid Colors**  
  
White  
  
Tan

**Laminated Interiors**  
  
Cavalier Oak  
  
Colonial Cherry

**Laminated Interiors**  
  
Natural Oak  
  
Vintage Pecan

**Laminated Exteriors**  
  
Tan  
  
Clay  
  
Bronze

**Exterior Finishes**  
  
Tan  
  
Clay  
  
Forest  
  
Brick  
  
Silver  
  
Chocolate  
  
Butter  
  
Bronze  
  
Terra  
  
Cocoa  
  
Black  
  
Chestnut  
  
Pebble

Woodgrain and exterior laminates available on white · Exterior finish available on any color · Custom colors available

Hardware is color-matched to the window interior. Choose between the modern or classic lock style.

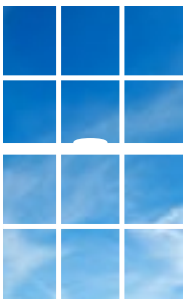
Bronze hardware is standard on Cavalier Oak, Colonial Cherry, and Vintage Pecan. Tan hardware is standard on Natural Oak.

Sentry System multi-function locking hardware integrates the lock and tilt functions into the same lock housing, leaving an uncluttered appearance.



## GRIDS

Colonial



Perimeter



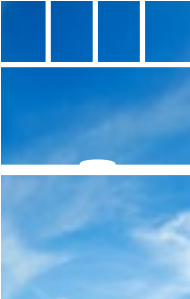
Prairie



Diamond



Valance



Vintage Pecan Interior Laminate



Black Exterior Finish



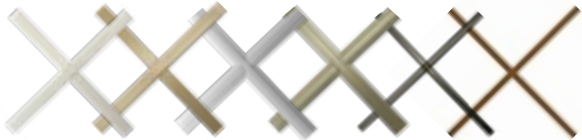
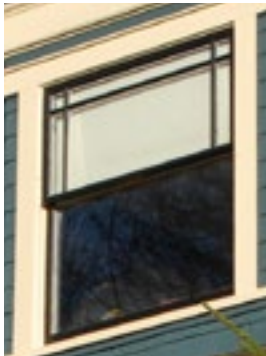
Bronze Exterior Laminate



Clay Exterior Laminate



Cocoa Exterior Finish



Flat, Georgian, and Pencil profiles available.  
Grids are placed between the glass and are securely locked in to place, so they'll always remain straight and true.

# ANATOMY OF AN ENERGY EFFICIENT WINDOW

- 1. **Quality Frame Materials:** low-maintenance frame materials, like vinyl, reduce heat transfer and help to better insulate.
- 2. **Multiple Panes:** two or three panes of glass with a gas filled airspace are energy-efficient, resist impact damage and provide sound insulation.
- 3. **Low E Glass:** reflects heat and keeps heat inside in the winter and outside in the summer. UV is also reflected, protecting furnishings from fading while allowing plants to thrive.
- 4. **Gas Fill:** Inert argon and krypton are more dense and insulate better than regular air.
- 5. **Warm Edge Spacers:** like Intercept or Super Spacer, keeps a window's glass panes the correct distance apart. Warm Edge Spacers insulate pane edges, reducing heat transfer through the window.



### Intercept Spacer System

features a unique, one-piece, tin-plated U-channel design that creates an effective thermal barrier to help reduce conducted heat loss through the window. Its sealed, one-piece design makes Intercept spacers stronger and better at retaining insulating gas than many conventional designs.



### Optional Super Spacer

Optional warm edge Super Spacer is the “no metal” upgrade to help your windows reduce energy costs. Its 100% memory foam formula stands up to a wide range of temperatures and is designed to provide outstanding UV resistance. It dramatically decreases condensation and blocks heat escape for best thermal performance.



# HOW DOES LOW-E GLASS WORK?

Low Emissivity (Low-E) glass is one of the cornerstones of any energy efficient window. Its primary purpose is managing radiation, whether it's solar, light, ultraviolet, or heat. The secret is two or three microscopic layers of silver, which reflect heat back to its source. Other layers in the Low-E coating filter ultraviolet and solar radiation, while allowing visible light through.

To further enhance low-e effectiveness, glass packages are filled with either argon or krypton gas in between the panes of glass. Both gases are denser than air, so they make it more difficult for heat or cold to transmit through the glass units. We use high quality sealants, sophisticated filling equipment and a voluntary verification system to ensure consistent glass performance.



# INTELLIGLASS PACKAGES

## WHAT WE MEASURE AND WHY

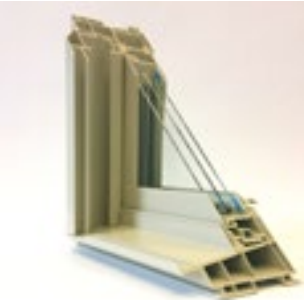
**U-Value** measures the rate of heat transfer and tells you how well the window insulates. On average, windows have a U-Value that ranges from .25 to 1.25 and are measured in Btu/h ·ft<sup>2</sup>·°F. The lower the U-Value, the better the window insulates.

**Solar Heat Gain Coefficient (SHGC)** measures the fraction of solar energy transmitted and tells you how well the product blocks heat caused by sunlight. SHGC is measured on a scale of 0 to 1; values typically range from 0.25 to 0.80. The lower the SHGC, the less solar heat the window transmits.

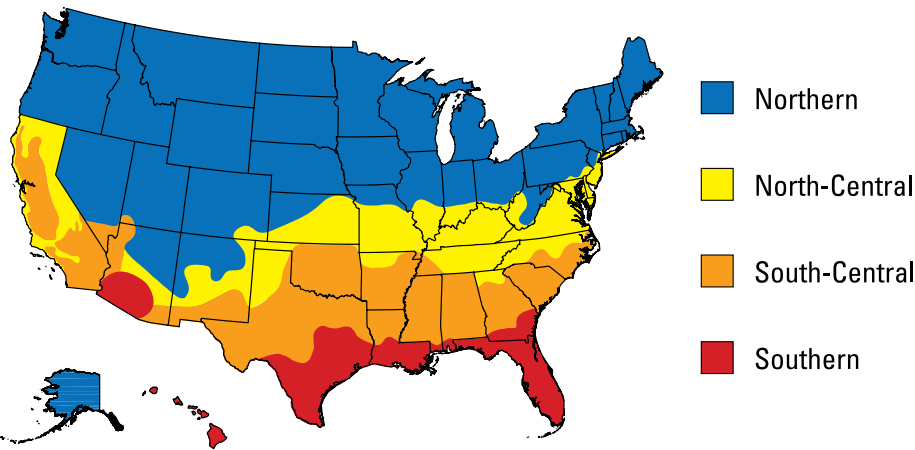
**Visible Light Transmittance** measures the fraction of visible light transmitted through the window. The higher the Visible Light Transmittance, the more light shines through.

**Condensation Resistance** measures how well a window resists condensation on the inside surface. It is expressed as a number between 1 and 100. The higher the number, the better the window at condensation resistance.

		GLASS PANES	LOW-E TYPE	AIRSPACE FILLING
IntelliGlass	Northern & North Central climates	2	Standard	Argon
IntelliGlass X	Southern & South Central climates	2	Solar	Argon
IntelliGlass X <sup>3</sup>	Southern & South Central climates	3	Solar	Argon
IntelliGlass +	All climates	3	Standard	Argon
IntelliGlass Kr	All climates	3	Standard	Krypton



**Triple Pane glass** is up to 50% more energy efficient than dual pane. Installing triple pane windows also reduces noise from the outside and fading from the sun.



Installing ENERGY STAR qualified windows and doors lowers energy bills and saves you money. With more efficient windows, you also use less energy, which reduces greenhouse gas emissions from power plants.

# PERFORMANCE DATA

No Grids

With Grids

4700 Double Hung	Intercept		Super Spacer		Energy Star
	U-Value	U-Value	SHGC	VLT	
IntelliGlass Low E / Argon	.28	.27	.38	.53	N NC
IntelliGlass X Low E / Argon	.28	.27	.22	.50	NC SC S
IntelliGlass X3 Triple Pane Low E / Argon	.24	.23	.21	.46	N NC SC S
IntelliGlass Plus Triple Pane Low E / Argon	.20	.18	.24	.40	N NC SC S
IntelliGlass Supreme Triple Pane Low E / Krypton	.18	.17	.24	.40	N NC SC S

	Intercept		Super Spacer		Energy Star
	U-Value	U-Value	SHGC	VLT	
	.28	.27	.34	.47	N NC
	.28	.27	.20	.50	NC SC S
	.25	.23	.19	.41	N NC SC S
	.20	.18	.22	.40	N NC SC S
	.18	.17	.22	.35	N NC SC S

4750/4753 Slider	Intercept		Super Spacer		Energy Star
	U-Value	U-Value	SHGC	VLT	
IntelliGlass Low E / Argon	.28	.27	.37	.52	N NC
IntelliGlass X Low E / Argon	.28	.27	.22	.50	NC SC S
IntelliGlass X3 Triple Pane Low E / Argon	.24	.23	.21	.46	N NC SC S
IntelliGlass Plus Triple Pane Low E / Argon	.20	.18	.24	.39	N NC SC S
IntelliGlass Supreme Triple Pane Low E / Krypton	.17	.16	.24	.39	N NC SC S

	Intercept		Super Spacer		Energy Star
	U-Value	U-Value	SHGC	VLT	
	.28	.27	.34	.47	N NC
	.28	.27	.20	.44	NC SC S
	.24	.23	.19	.41	N NC SC S
	.20	.18	.22	.35	N NC SC S
	.18	.16	.22	.35	N NC SC S

4770 Picture Window	Intercept		Super Spacer		Energy Star
	U-Value	U-Value	SHGC	VLT	
IntelliGlass Low E / Argon	.27	.26	.39	.55	N NC
IntelliGlass X Low E / Argon	.27	.26	.23	.52	N NC SC S
IntelliGlass X3 Triple Pane Low E / Argon	.23	.22	.22	.48	N NC SC S
IntelliGlass Plus Triple Pane Low E / Argon	.18	.17	.25	.41	N NC SC S
IntelliGlass Supreme Triple Pane Low E / Krypton	.16	.15	.25	.41	N NC SC S

	Intercept		Super Spacer		Energy Star
	U-Value	U-Value	SHGC	VLT	
	.27	.26	.36	.49	N NC
	.27	.26	.21	.47	N NC SC S
	.23	.22	.20	.48	N NC SC S
	.18	.17	.23	.37	N NC SC S
	.16	.15	.23	.37	N NC SC S

2019 Energy Star most efficient

Product Rating	Up to this size window*	Structural Test Pressure PSF	Water Resistance PSF	Air Infiltration cfm/ft <sup>2</sup>
Double Hung R-PG45	40" x 63" SS glass	45	7.5	0.12
Double Hung R-PG50	40" x 63" DS glass	50	7.5	0.09
Slider R-PG25	63" x 44" SS glass	25	4.5	0.13

The lower the **U-value**, the greater a window's resistance to heat flow and the better its insulating value.  
The lower the **SHGC**, the more a product is blocking solar heat from coming through the window.  
**VLT** - Visible Light Transmittance - lower values mean less light passing through the window.

\* windows outside these size limits have not been structurally tested



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