



THE  
**ORION**  
SERIES

# WHY VINYLMAX?

## MADE IN THE USA



Vinylmax is passionate about 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 a Vinylmax window, you can be sure you are not only getting American quality, but also supporting and sustaining local communities.

## 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.

## 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.

## THE VINYLMAX STORY



Founded in 1982 in Cincinnati, Ohio 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 in its Ohio and New York manufacturing facilities. Millions of American homes are more beautiful and more energy efficient, thanks to Vinylmax windows.

**vinylmax**  
windows







# MAKE IT YOUR OWN

## COLORS

### Solid Colors

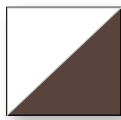


White PVC  
(standard)

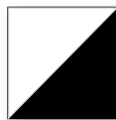


Clay PVC

### Laminated Exteriors



Bronze  
Exterior  
Laminate



Black Exterior  
Laminate

## GRIDS

### Patterns

Colonial



Perimeter



Prairie



Valance



### Profiles



Flat and Georgian profiles available.  
Grids are placed between the glass and are  
securely locked into place, so they'll always  
remain straight and true.  
Simulated Divided Lites available.

## SCREENS

### Half or Full Screen



Standard 1/2  
Screen



Optional Full  
Screen

### Optional FlexScreen



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.

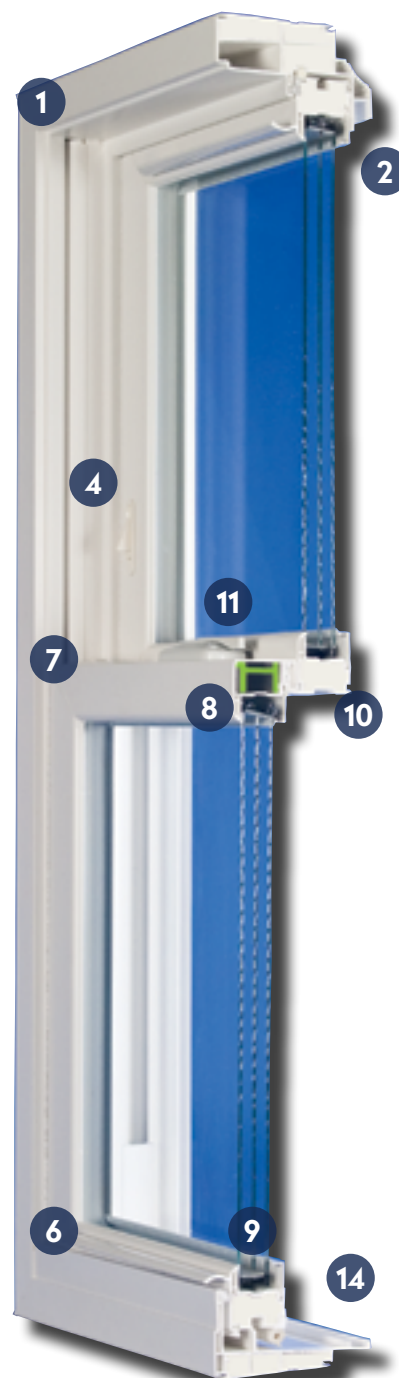






# STANDARD FEATURES

1. **Fusion Welded Frame and Sashes** provide an impenetrable barrier to air and water penetration.
2. **Deeply Pocketed Head** with weather stripping resists air infiltration.
3. **0.080" walls** are a full 12% thicker than most other windows and provide a better thermal barrier.
4. **Sash Limit/Vent Locks** allow for ventilation with security and have passed AAMA Forced Entry Resistance Testing.
5. **Soft Curved Sash Design** looks more like traditional wood window sash.
6. **Full Length Extruded Lift Rail** provides easy sash operation.
7. **Recessed-in Low Profile Tilt Latches** are color matched for a neat appearance.
8. **Innergy® Composite Reinforcement** provides maximum strength and thermal efficiency.
9. **No-metal Super Spacer® Warm Edge Technology** provides barrier to heat transfer in insulating glass unit.
10. **Interlocking Meeting Rail** provides additional security and has passed AAMA Forced Entry Resistance Test.
11. **Die Cast Cam Lock and Keeper** draws sash closer together for positive lock.
12. **Three Layers of Weather Stripping** with double mylar fins for resistance to air and water infiltration.
13. **Flexible Bulb Seal** provides a superior high performance weather seal like a refrigerator door.
14. **5° Positive Sloped Sill** provides water runoff, even in driving rain.
15. **Fully Welded Double Wall Interior Dam Leg** with fin-seal weather stripping improves strength and optimal air and water performance.
16. **Fine Tuned Balance System** provides years of smooth, trouble-free, fingertip operation of sashes.
17. **R-PG50 Rating** exceeds typical residential structural performance ratings.
18. **Optional IntelliGlass Low E with Argon Fill** meets Energy Star North and North Central performance standards. Dual and triple pane options available.
19. **Optional Integral Nailing Fin** ensures installation ease and inhibits water and air infiltration.



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# DOUBLE HUNG



Both the top and bottom sash operate allowing for ventilation and tilt-in for easy cleaning.





## 2 & 3 LITE SLIDERS

- ✦ Lift out sashes
- ✦ Multi-chambered vinyl construction
- ✦ Integrated weep system
- ✦ Multiple rows of weatherstripping
- ✦ Integral pull handles
- ✦ Full overlap interlock
- ✦ Ventilation latch
- ✦ Fusion welded corners
- ✦ Tandem non-marking rollers



## PICTURE WINDOWS

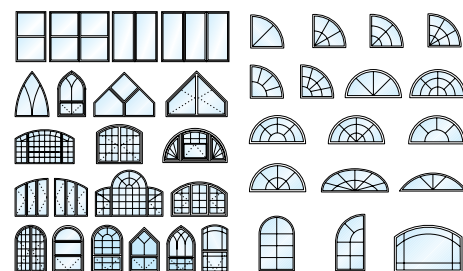
- ✦ Multi-chambered vinyl construction
- ✦ Four-point fusion welding
- ✦ Warm Edge Spacer System
- ✦ Maximize natural light while framing your view of the outdoors.



## WINDOW SHAPES

- ✦ Multi-chambered vinyl construction
- ✦ Four-point fusion welding
- ✦ Warm Edge Spacer System
- ✦ A variety of shapes are available

Common shapes:





- ✦ Fusion welded frame and sash corners
- ✦ Multi-chambered vinyl frame and sash
- ✦ Dual or triple pane IntelliGlass high performance insulated glass
- ✦ Intercept warm-edge spacer system
- ✦ Truth Encore's full-flip folding handle recesses in the operator cover
- ✦ Sealed operator housing and protected gear drive
- ✦ Patented laser-cut gear teeth
- ✦ Fold-down crank handle
- ✦ Sashes open a full 90 degrees
- ✦ Multi-point locking system
- ✦ Single lever lock handle



## CASEMENTS

- ✦ Color-matched, weatherproof PVC exterior
- ✦ Hand-selected 1-1/4" furniture-grade Birch or Oak hardwood interior
- ✦ Solid Timberstrand laminated wood mullion construction
- ✦ 6" threaded lagbolt construction anchors the head and seatboard
- ✦ Veneer-banded edges
- ✦ Eyebolt anchors and concealed adjustable cable support system
- ✦ Optional low-voltage recessed lighting
- ✦ Optional insulated seat



## BAYS & BOWS

- ✦ 6" Multi-chambered, fusion welded vinyl frame
- ✦ Operable and fixed panels are reinforced
- ✦ Both panels fully interlock when closed
- ✦ Dual or triple pane tempered glass
- ✦ Heavy-Duty rollers
- ✦ Elegant interior and exterior color matched handles
- ✦ Heavy duty adjustable extruded screen
- ✦ Low-profile threshold
- ✦ Order left or right operable door



## EQUINOX PATIO DOOR

# ENERGY EFFICIENT WINDOWS MATTER

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:** argon, krypton or blended gases are more dense and insulate better than regular air.
5. **Warm Edge Spacers:** like Super Spacer, keeps a window's glass panes the correct distance apart. Warm Edge Spacers insulate pane edges, reducing heat transfer through the window.



## Vinyl Technology

The design of the window and the quality of the extrusion insures the beauty and performance of the finished product. Orion 7 Vinyl

Windows are designed and extruded by our partner, Deceuninck Inc., recognized as the world's leading extruder of vinyl window and door systems. All vinyl is produced from abundantly common natural materials and is thus an extremely eco-responsible product. All of our vinyl profiles are completely recyclable and environmental friendly.



## Super Spacer

Super Spacer is the "no metal" spacer to help your windows reduce energy costs. Its foam structure 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

## THE ORION SERIES



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. Can you feel your carbon footprint shrinking?

## COMPARE AND SAVE

We understand Northern Climates. Your HVAC system is working overtime to maintain a comfort level in your home for your family. Orion Windows are designed to keep that heated or cooled air inside your home. We measure two performance elements that translate directly to your comfort.

U-Value measures how well a window insulates, or prohibits energy transferring through the window. The lower the U-value, the better it insulates.

Solar Heat Gain Coefficient measures how much solar energy passes through your window, which in northern climates may provide some free heat through sunny exposures in the winter. The higher the SHGC, the more passive solar energy coming into your home.

Foam filling in the frames and sashes can further the insulating value of your windows.

Look at the IntelliGlass packages and their performance to select the best windows for your home. By combining foam with IntelliGlass, all Orion Windows meet Energy Star requirements for Northern and North Central climate zones.

		GLASS PANES	LOW-E TYPE	AIRSPACE FILLING
<b>IntelliGlass</b> <small>high performance</small>	Ideal for Northern climates	2	Standard	Argon
<b>IntelliGlass<sup>ESP</sup></b> <small>solar control</small>	Sunny exposures in Northern and North Central climates	2	Solar Gain	Argon
<b>IntelliGlass +</b> <small>high performance triple pane</small>	Ideal for all climates	3	Standard	Argon
<b>IntelliGlass Kr</b> <small>ultimate performance triple pane</small>	Ideal for all climates	3	Standard	Krypton

## THERMAL PERFORMANCE DATA

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	No Grids				With Grids	
Orion Double Hung Window	U-Value w/Foam	U-Value No Foam	SHGC	VLT	SHGC	VLT
IntelliGlass Low E / Argon	.27	.29	.35	.49	.32	.43
IntelliGlass <sup>ESP</sup> Low E / Argon	.23	.25	.25	.44	.26	.39
IntelliGlass Plus Triple Pane Low E / Argon	.19	.21	.28	.37	.25	.33
IntelliGlass Supreme Triple Pane Low E / Krypton	.16	.17	.28	.37	.25	.33

Orion Slider Window	U-Value w/Foam	U-Value No Foam	SHGC	VLT	SHGC	VLT
IntelliGlass Low E / Argon	.26	.28	.35	.49	.32	.44
IntelliGlass <sup>ESP</sup> Low E / Argon	.22	.25	.25	.44	.23	.39
IntelliGlass Plus Triple Pane Low E / Argon	.18/.19*	.21	.28	.37	.25	.33
IntelliGlass Supreme Triple Pane Low E / Krypton	.16	.18	.28	.37	.25	.33

Orion Picture Window	U-Value w/Foam	U-Value No Foam	SHGC	VLT	SHGC	VLT
IntelliGlass Low E / Argon	.28	.28	.39	.55	.36	.49
IntelliGlass <sup>ESP</sup> Low E / Argon	.23	.24	.28	.50	.26	.44
IntelliGlass Plus Triple Pane Low E / Argon	.19	.20	.31	.49	.28	.37
IntelliGlass Supreme Triple Pane Low E / Krypton	.16/.15*	.16/.17*	.31	.42	.28	.37

\*U-value with grids

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