



# VINYL PRODUCTS CATALOG

Featuring GS Series, Galaxy Series, &  
Imperial Series of Windows &  
Patio Doors

WINDOW & DOOR PRODUCTS

FOR REPLACEMENT & NEW CONSTRUCTION

APPLICATIONS







Trust 1st Class Windows for your next replacement or new construction project. For more than 10 years we have perfected our products in every step of the design and engineer process, and have selected only the best components to ensure high performance and long lasting satisfaction.

We strive to provide remarkable customer service and outstanding products that surpass industry's standards and are beautiful, functional and energy efficient.

With continued innovation and a commitment to excellence, we are at the forefront in product development and design with full lines of windows and patio doors sure to meet your project needs.

## OUR PARTNERS

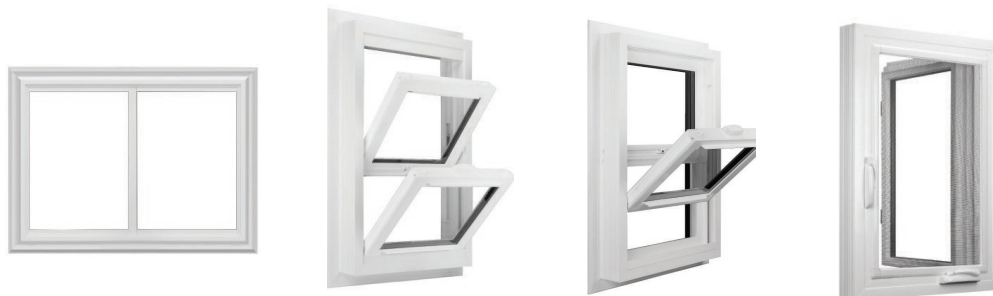


Note: Manufacturer reserves the right to substitute components as necessary  
for continued product improvement. Custom options selection may vary.



## TABLE OF CONTENTS

Innovative Design .....	02
GS Series .....	07
Galaxy Series .....	20
Imperial Series .....	28
Enhancements .....	32
Vinyl Shutters .....	38
Our Trusted Partners .....	39



A WINDOW FOR EVERY NEED



# GS Series

## GS FAMILY OF WINDOWS & DOORS

GS is our most complete, top of the line window family. Created to surpass expectations and deliver outstanding performance; engineered to host several glass packages including triple glazing and dual glazed laminated glass options, this impressive window is proudly made in the U.S.A.

With many styles to choose from and features like even sight lines for a balanced look, outstanding strength and rigidity, virtually maintenance free extruded vinyl, these windows manufactured to order are made to last. Select a glass package for enhanced energy efficiency or noise reduction and enjoy increased comfort in your home. For a unique look opt for an exterior color from our wide selection of finishes. GS windows, green sound security!





## OUTSTANDING FEATURES EXCEPTIONAL BENEFITS

Precise engineering and design set apart the GS family of windows and doors. Crafted to offer exceptional options, our premier line is sure to bring comfort to your home for many years to come. Take a closer look at GS' features. Available with Nail Fin, Block frame and Replacement Flange. With outstanding performance and quality components, our GS Series has specific solutions for your project

The GS family of windows is available in a host of popular styles and can be factory combined to create design interest while adding fashion and functionality to your home. Select the window style that meets your project architectural needs.



## DURABILITY AND EASE OF USE

- Heavy duty extruded vinyl for structural strength and durability
- Even sight lines for a balanced look
- Miter cut & fusion welded frame and sash for structural integrity
- Steel reinforced sashes for outstanding support
- Integral pull rail for easy operation of moving sash
- Replacement flange designed with heavy-duty dual wall
- 1" and 1-3/8" nailing fin set back
- Auto-lock for easy locking in sliding and hung models
- Heavy duty hardware on casements and awnings
- Laminated glass option for impact resistance & sound reduction
- STC Rated for low sound transmission
- Nylon composite window rollers on sliding and double sliding models for quiet operation and long lasting performance
- Aluminum guide for window rollers for smooth operation
- Hung models feature constant force counter weight balance system
- Vent latches for adjustable ventilation
- Double Hung models allow both sashes to tilt in for safe and easy cleaning from inside the home
- Tilt in Single Hung models allow operating sash to tilt in for safe and easy cleaning from inside the home
- Weep hole covers prevent debris from obstructing the drainage system and provide an aesthetic look Enhanced energy efficiency

- Beveled, multi-chambered extruded vinyl improves thermal performance while providing an elegant appearance
- 3-1/4" frame depth engineered to host heavier insulated glass units of specialty glass packages
- Duralite spacer enhances thermal performance of glass components
- Full weather stripping helps prevent air infiltration
- 1" insulated glass unit featuring LoE3 glass
- Optional triple pane glass for enhanced thermal performance
- Argon gas filled glass chambers for increased energy savings

### Standard Colors

Standard extruded vinyl colors are White or Almond with matching hardware



White

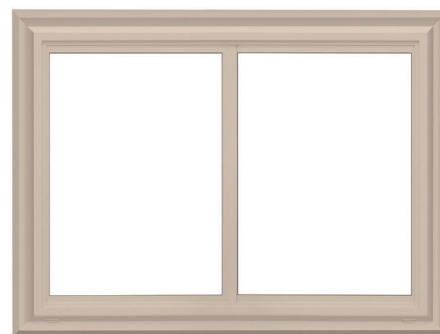


Almond

White GS  
Double Hung window



Almond GS  
Sliding window



Color swatches are intended as a representation only and may vary due to printing limitations

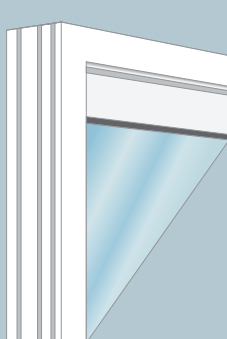
## GS SERIES FRAME TYPES

Retrofit



For replacement applications. The replacement flange allows for convenient installation with no need to break out stucco.

Block



For replacement applications. Block with sloped sill adapter is also available.

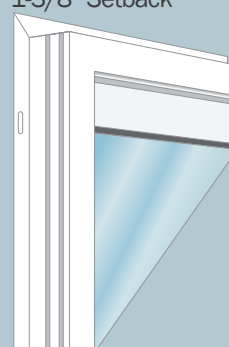
1" Setback



For new construction applications. This frame type allows targeted installation in a newly created opening. Two different set backs to meet builders needs.

Nail-on

1-3/8" Setback





# GS WINDOWS

## GREEN SOUND SECURITY



Double Hung

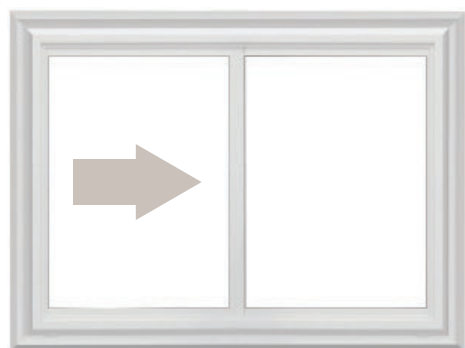


Tilt-in Single Hung

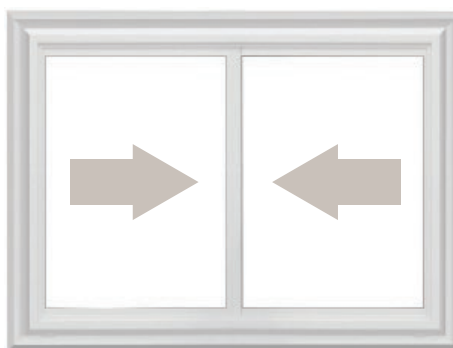
## GS STYLING

The GS family of windows is available in a host of popular styles and can be factory combined to create design interest while adding fashion and functionality to your home.

Select the window style that meets your project architectural needs.



Horizontal Slider, only one moving sash



Horizontal Slider, both sashes operate

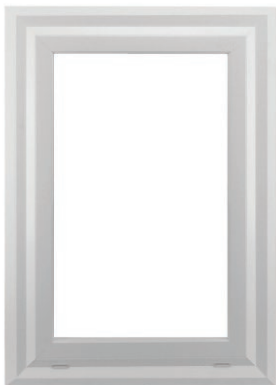




## GREEN SOUND SECURITY

GS' endless possibilities will help create the look you desire. Each one of our windows is made to order to perfectly fit the opening size and can be customized with grids, specialty glass and exterior colors for a unique look.

For outstanding views select our extra large windows which are built with superior strength and rigidity. Factory combined units are available in all frame types and in many configurations.



Picture, fixed windows  
and geometric shapes



Casements

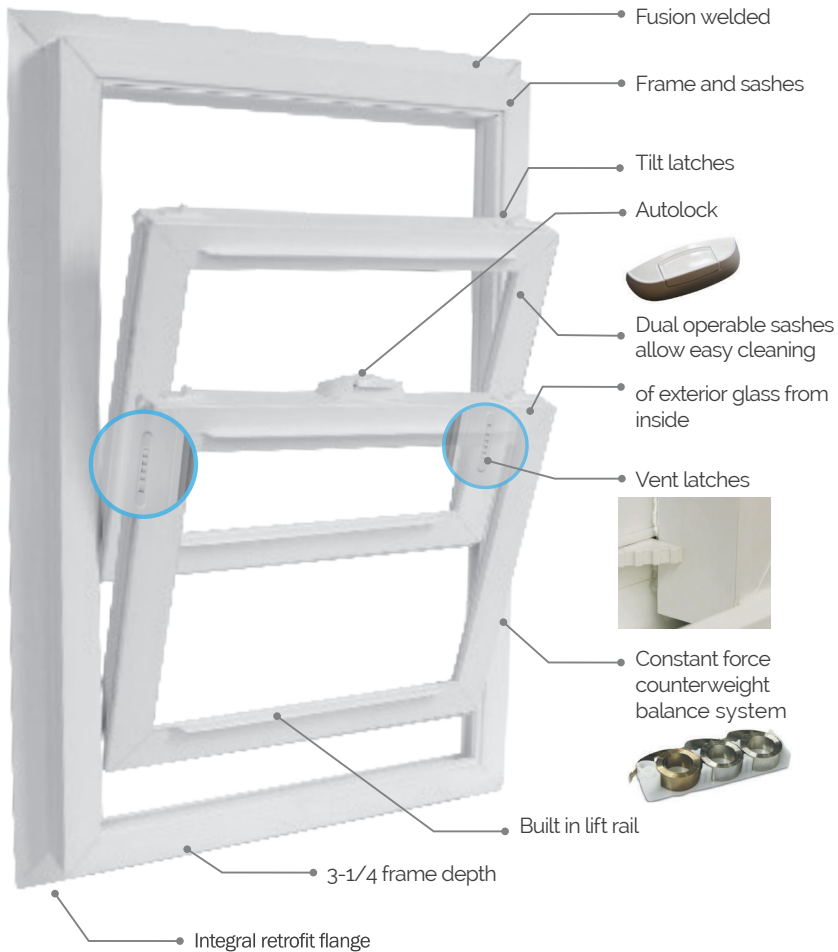


Awnings

## GS FEATURES AT A GLANCE

### QUALITIES OF OUR TOP OF THE LINE WINDOW SERIES

#### GS Double Hung



#### GS Horizontal Sliding

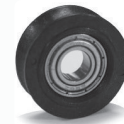


GS Series sliding windows feature heavy duty aluminum rails and bearing equipped nylon rollers for ultra quiet and smooth operation

GS' heavy duty oversized nylon composite rollers are designed for long lasting easy use

#### GS Horizontal Sliding Window Roller System

Aluminum rail system



Nylon composite rollers\*



\*Roller housing shown white to enhance roller view. Actual rollers are black and feature black housing

## GS SERIES CASEMENT HARDWARE




Sash opens  
**90°**



Casement hardware allows the sash to open to a full 90 degrees, clean the exterior glass easily from inside Egress hinge available for casement windows

Improved casement window handles and locks have when not in use, they fold away for a modern sleeker look powder coated finish is durable and lasts the life of the window





# GS PATIO DOORS

GREEN SOUND SECURITY

## ENJOY THE OUTDOORS

Our GS family of doors expands possibilities for creating a functional and beautiful gateway to the outside. Featuring many styling options, fusion welded frames, exceptionally strong panels and top of the line hardware made to last.

This premium series of patio doors are manufactured to order in high performance extruded vinyl which makes them virtually maintenance free, with outstanding thermal performance and superior strength and rigidity, especially important in extra large doors.

GS' sliding and French swing patio doors are created to meet your project's architectural needs with beauty, functionality and remarkable energy efficiency.

With glass packages that offer sound reduction, triple glazing and many enhancement options, our strongest most advanced door system is what your project needs.

Standard Colors



White



Almond



GS SLIDING PATIO DOOR CORNER



## FRENCH STYLE SLIDING PATIO DOORS



## GS PATIO DOORS

GS' sliding patio doors allow you to enjoy wide door panel styling and 1-3-/16" insulated glass for energy efficiency.

Triple pane models and laminated glass package options are available. All GS Series doors use Duralite spacers with warm edge technology, LoE3 glass and are Argon gas filled.

New nylon composite rollers add durability as well as quiet functionality. Steel reinforcement inserts for superior strength.

### Key features

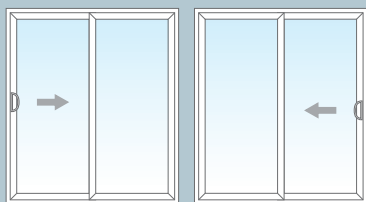
- Multi-chambered heavy duty extruded vinyl for structural strength and durability
- Frame depth is 5-5/8"
- 1-3/16" triple glazed IG unit featuring Duralite spacer with warm edge technology for energy efficiency
- 1-3/16" Dura-Pane dual glazed IG unit featuring Duralite spacer with warm edge technology for energy efficiency and Laminated glass panes for improved sound control capability
- Fusion welded corners for strength and stability
- IG Glass base wall adds stability and security
- Door panels feature a multi-channel extrusion for increased energy performance and integrity
- Steel and aluminum reinforcement for exceptional strength
- Heavy duty aluminum rail system offers smooth operation
- Adjustable nylon wheel rollers featuring galvanized steel housing for added durability and smooth, quiet functionality
- Ergonomic handle with dual point locking system for ease of use and tight seal against elements infiltration
- 1" and 1-3/8" set-back nail-on fin for easy installation
- Replacement flange features with heavy-duty dual wall
- Flat and sculptured grids in a variety of patterns
- Standard, custom and extra large sizes are available
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be order to meet ENERGYSTAR® requirements
- Lifetime Warranty



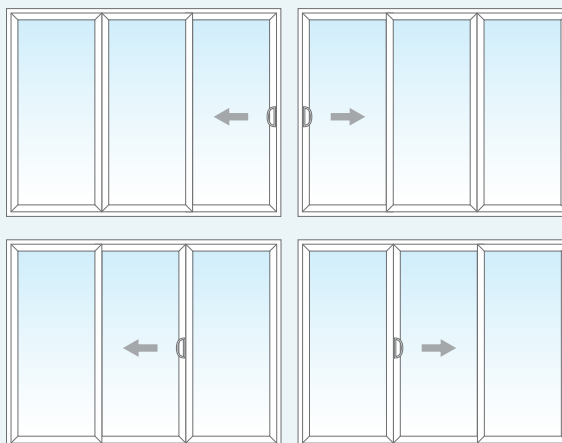
## AVAILABLE STYLES

Combine functionality and beauty with our fixed and operable side lites and transom windows available on GS Sliding Patio Doors. With options for wide and oversized openings your imagination is the limit. GS Sliding Patio Doors have the style for a great entrance.

SLD: XO and OX



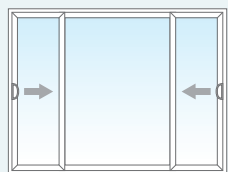
Two panel door with one operable panel that slides to the right or left. Also available with 1 or 2 transom windows



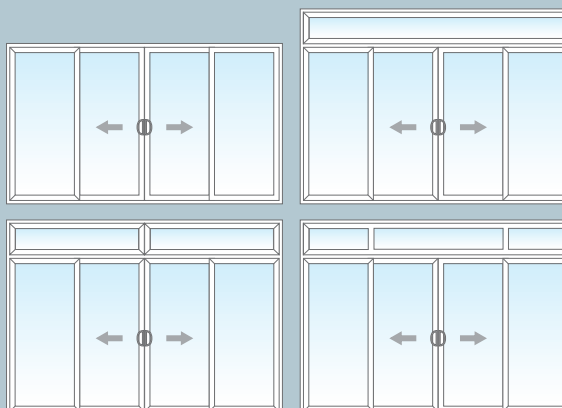
SLD: OXOL, OXOR, OOX and XOO

Three panel door with one operable panel that slides to the right or left. Operable panel can be on center, or on the side. Also available with 1, 2 or 3 transom windows

SLD: XOX, XOX T1, XOX T2 and XOX T3



Three panel door with two operable and one fixed panels, side panels slide to the center. Available with 1, 2 or 3 Transom windows



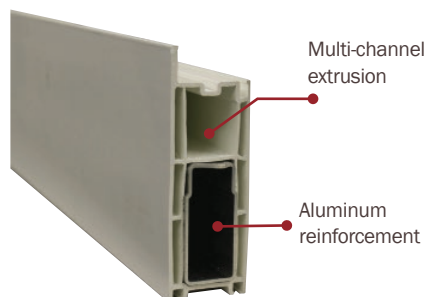
SLD: OXXO, OXXO T1, OXXO T2 and OXXO T3

Four panel door with two operable and two fixed panels, center panels slide to sides. Available with 1, 2 or 3 transom windows.

## EXCEPTIONAL CONSTRUCTION

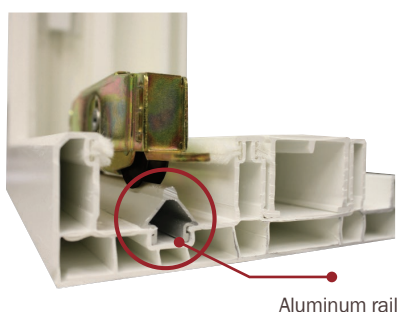
### Door panel vinyl extrusion

Doors feature multi-chambered extruded vinyl panels with steel reinforcement for structural strength and integrity.



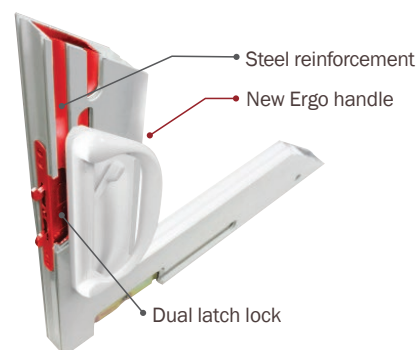
### Aluminum rail system

Heavy duty aluminum rail system is standard on all GS Series sliding patio doors. This versatile rail offers a smoother glide when opening and closing the door. Aluminum is also resistant to erosion and rust.



### Dual latch lock

GS Series French sliding doors feature a new dual latch lock for added security and a tight weather seal. New ergonomic handle easily closes in one motion. (\*Optional handle shown)





## FRENCH SWING PATIO DOOR



## FRENCH SWING PATIO DOOR

GS Series French swing patio doors feature outstanding vinyl construction, standard heavy duty hinges and are available in large sizes. GS Series patio doors are also available in optional exterior color finishes.

Glass panels are available in either TriplePane for energy efficiency or DuraPane laminated glass for high sound reduction and security.

French swing doors feature new ergonomic handle, which allows to close and lock the door in one motion. GS French Swing patio doors can be ordered with flat or sculptured grids in a variety of patterns.

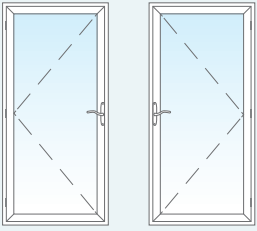
### Key features

- Multi-chambered heavy duty extruded vinyl for strength and thermal performance
- Frame depth is 5-5/8"
- Fusion welded corners for integrity and stability
- 1-3/16" Triple Glaze IG unit featuring Duralite spacer with warm edge technology for energy efficiency
- 1-3/16" DuraPane dual glazed IG unit featuring Duralite spacer with warm edge technology for energy efficiency and Laminated glass panes for improved sound control capability\*
- Door panels feature a multi-channel extrusion for increased energy performance and strength
- Aluminum reinforcement for structural integrity
- Heavy duty hinges are standard
- Commercial grade continuous hinges in oversized doors provide outstanding support for heavier panels
- Ergonomic handle with multi-point locking system allows to close and lock the door in one motion
- 1" and 1-3/8" set-back nail-on fin for easy installation
- Replacement flange features heavy-duty dual wall
- In-swing or out-swing operation
- Side-lites are available and can be fixed or operable
- Flat and sculptured grids in a variety of patterns
- Standard, custom and extra large sizes are available
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be order to meet ENERGYSTAR® requirements
- Lifetime Warranty

## AVAILABLE STYLES

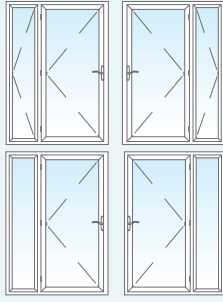
Select from swing out (SWO) or swing in (SWI) options. Most door styles are available with transom window(s).

### SWO or SWI: XL, XR



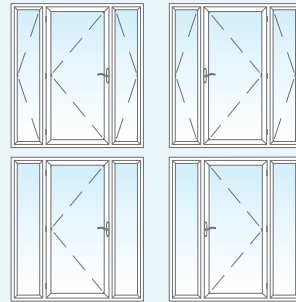
Single panel swing door operates to the left or right

### SWO or SWI: SXL, SXR, XLS, XRS, FXL, FXR, XLF, XRF



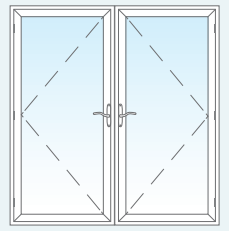
Single panel swing door operates to the left or right, with operable or fixed side-lite

### SWO or SWI: SXLS, SXRS, FXLF, FXRF



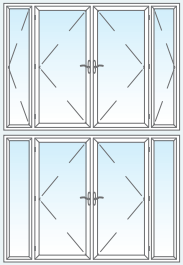
Single panel swing door operates to the left

### SWO or SWI: XX



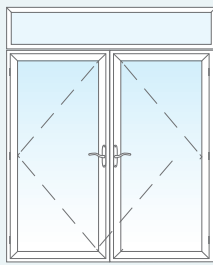
Two panel swing door,

### SWO or SWI: SXXS, FXXF



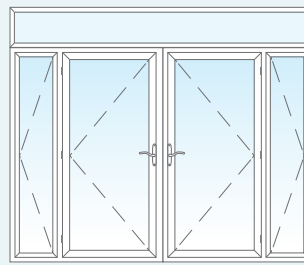
Double opening French Door with two operable or fixed side-lites

### SWO or SWI: XX T and XX T2



Two panel swing door, both panels operate and can swing out, with transom window

### SWO or SWI: SXXS T, FXXF T



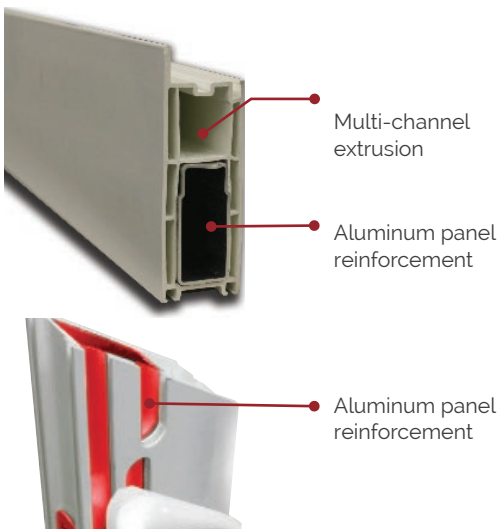
Double opening French Door with two operable or fixed side-lites, with one or up to 4 transom windows

Elegant & functional French Swing patio doors in a variety of styles, made to order to perfectly fit the opening

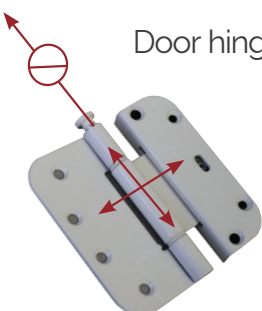
## EXCEPTIONAL CONSTRUCTION

### Door panel vinyl extrusion

Doors feature multi-chambered extruded vinyl panels with steel reinforcement for structural strength & integrity.



### Door hinge design



Convenient adjustable hinge allows to set door panels at perfect point for operation and locking.

Once hinge pin is set it cannot be punched out from the outside.

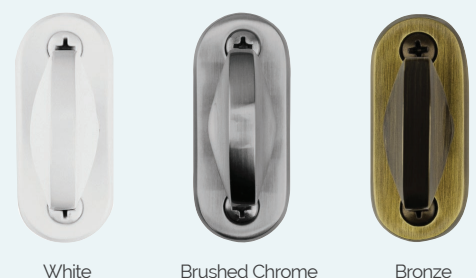
## HARDWARE OPTIONS

### Ergonomic door handle



Designer finishes and optional keyed handles available.

### Side-lite latches finishes



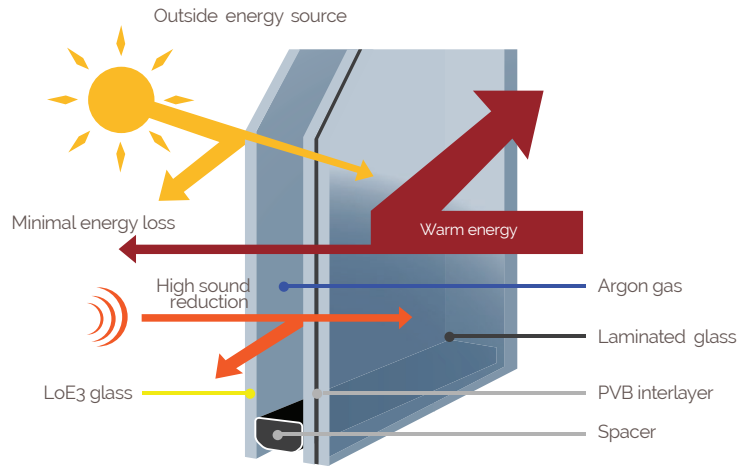


## DURAPANE LAMINATED GLASS

DuraPane laminated glass is an innovative glazing system similar to automobile windshield glass, consisting of a plastic safety interlayer placed between two sheets of glass on one of the glass panes of the insulated glass unit.

Ordinary glass can break easily, tempered glass while known for its strength, will completely shatter under impact. If broken, DuraPane glass will retain its shape and maintain a barrier against foreign objects.

DuraPane laminated glass has excellent sound reduction properties making it a great choice for areas with high noise levels.



DuraPane 1" Insulated glass unit



### Key features

- Impact resistant panels for increased security, glass will not shatter at impact
- High sound reduction achieved by a laminated glass pane
- 1" insulated glass unit for increased strength & stability, making tempered glass necessary only in extra-large window sizes
- Increased air space raises sound reduction levels

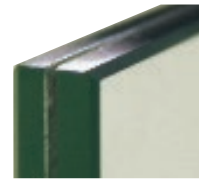
- STC Ratings using DuraPane laminated glass can reach levels up to 34-36 (Ratings may vary due to window size and glass options selected)
- 1-3/16" insulated glass unit on doors for improved strength and sound reduction properties

### DuraPane Insulated Glass Unit

- 1 DuraPane laminated inner panel
- 1 LoE3 performance outer glass pane

- Inner air cavity is Argon gas filled
- Duralite spacer

DuraPane laminated glass contains a PVB interlayer of plastic placed between two sheets of glass. Minimal to zero glass tinting is produced using this process.



\*Other glass combinations are available, inquire for more information

## DURAPANE GLASS CONFIGURATIONS BY PRODUCT TYPE\*

### WINDOWS



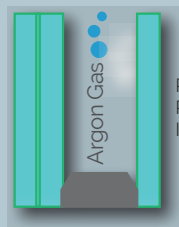
Pane 1 = 1/4" Laminated glass  
Pane 2 = 1/8" Glass  
IG width = 1"

#### GS Series Window DuraPane IG

- DuraPane laminated glass
- Cardinal LoE3 glass
- Ultra-Low U-factor as low as .27
- Solar Heat Gain Coefficient as low as .20
- Duralite spacer
- Argon filled glass chamber
- Exceeds ENERGYSTAR standards
- NFRC certified
- STC rated sound reduction technology



### DOORS



Pane 1 = 5/16" Laminated glass  
Pane 2 = 1/8" Glass  
IG width = 1-3/16"

#### GS Series Door DuraPane IG

- DuraPane laminated glass
- Cardinal LoE3 glass
- Ultra-Low U-factor as low as .27
- Solar Heat Gain Coefficient as low as .19
- Duralite spacer
- Argon filled glass chamber
- Exceeds ENERGYSTAR standards
- NFRC certified
- STC rated sound reduction technology



### OVERSIZED DOORS



Pane 1 = 5/16" Laminated glass  
Pane 2 = 5/32" Glass  
IG width = 1-3/16"

#### GS Series Oversized Patio Door DuraPane IG

- DuraPane laminated glass
- Cardinal LoE3 glass
- Ultra-Low U-factor as low as .27
- Solar Heat Gain Coefficient as low as .19
- Duralite spacer
- Argon filled glass chamber
- Exceeds ENERGYSTAR standards
- NFRC certified
- STC rated sound reduction technology

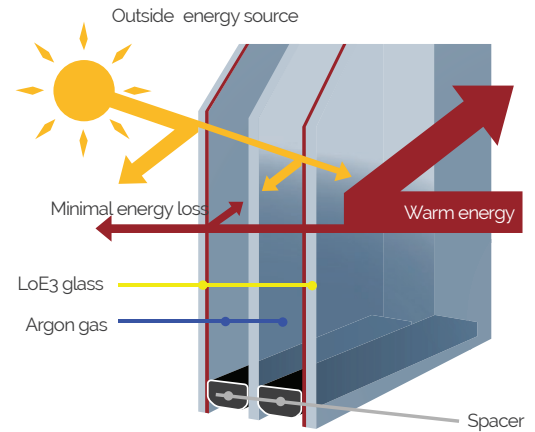


## TRIPLE-PANE GLASS

Our TriplePane window system not only increases energy savings, but will also lower UV transmittance and help protect the inside of the home from sun fade and deterioration.

Our triple pane insulated glass unit consists of three layers of glass sealed with Duralite spacers. When it comes to saving energy the numbers of glass panes and quality of the spacer in the insulated glass unit are key. Along with better home insulation, a triple pane window is among the very best choices for an energy efficient home.

Stop energy from escaping through inefficient windows, upgrade to new GS Series windows today!



Triple Pane Glass 1" Insulated glass unit

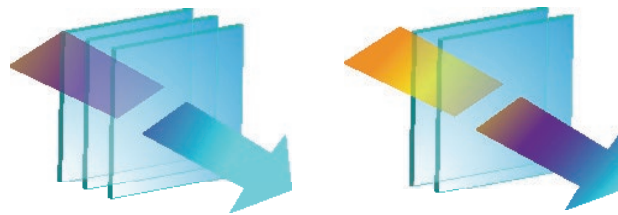


### Key features

- 2 LoE3 glass panes for maximum energy savings
- Low U- factor and high condensation resistance
- 2 inner chambers are filled with argon gas
- Increased air space improves sound reduction levels
- Patio door insulated glass units feature thicker glass
- Oversized doors feature our Large Patio Door Series frame for outstanding strength

### Triple Pane Insulated Glass Unit

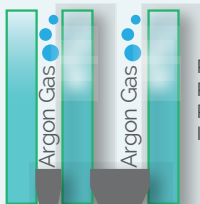
- 2 LoE3 glass panes, inside and outside
- 1 clear glass pane in the center
- 2 air cavities are Argon gas filled
- Duralite spacer



Triple pane construction features 2 layers of Cardinal LoE3 glass for outstanding UV rays blocking capability. UV ray protection, will prevent fading and sun damage of items inside the home

## TRIPLE PANE GLASS CONFIGURATIONS BY PRODUCT TYPE\*

### WINDOWS



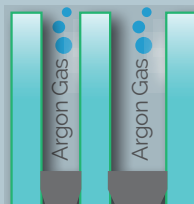
Pane 1 = 3/32" glass  
Pane 2 = 3/32" glass  
Pane 3 = 3/32" glass  
IG width = 1"

GS Series Window Triple Pane IG

- 3 Panes of Cardinal Glass: 2 LoE3 and 1 clear
- Ultra-Low U-factor as low as .15
- Solar Heat Coefficient as low as .15
- Duralite spacer
- Dual Argon filled glass chambers
- Exceeds ENERGYSTAR standards
- NFRC certified



### DOORS



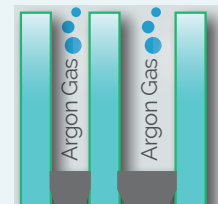
Pane 1 = 1/8" glass  
Pane 2 = 1/8" glass  
Pane 3 = 1/8" glass  
IG width = 1-3/16"

GS Series Door Triple Pane IG

- 3 Panes of Cardinal Glass: 2 LoE3 and 1 clear
- Ultra-Low U-factor as low as .17
- Solar Heat Gain Coefficient as low as .17
- Duralite spacer
- Dual Argon filled chambers
- Exceeds ENERGYSTAR standards
- NFRC certified



### OVERSIZED DOORS



Pane 1 = 5/32" glass  
Pane 2 = 5/32" glass  
Pane 3 = 5/32" glass  
IG width = 1-3/16"

GS Series Oversized Patio Door Triple Pane IG

- 3 Panes of Cardinal Glass: 2 LoE3 and 1 clear
- Ultra-Low U-factor as low as .17
- Solar Heat Gain Coefficient as low as .17
- Duralite spacer
- Dual Argon filled chambers
- Exceeds ENERGYSTAR standards
- NFRC certified



## GS WINDOWS THERMAL PERFORMANCE RATINGS COMPARISON



Lower U-factor in triple pane construction is attributed to 2 sheets of LoE3 glass. DuraPane features one pane of LoE3. Custom DuraPane glass configurations are available for increased performance.

Contact your 1st Class Windows sales representative for additional information on different glass packages.

## GS WINDOWS THERMAL PERFORMANCE RATINGS COMPARISON

			Thermal Performance							Structural Performance			
Product Type	Style	Glazing	U Factor	Solar Heat Gain Coefficient SHGC			Visible Transmittance			CR Condensation Resistance	Structural Rating	DP Rating	Size Tested
				Grids			Grids						
				No grids	<1"	>1"	No grids	<1"	>1"				
Windows	Slider	Triple Pane	.21	.18	.16	.15	.35	.31	.27	CR 67	LC PG 25	25	70 <sup>-15</sup> / <sub>16</sub> " x 56 <sup>-1</sup> / <sub>16</sub> "
		Dura Pane*	.28	.20	.18	.17	.47	.42	.37	CR 64			
	Single Hung	Triple Pane	.20	.18	.16	.15	.35	.31	.27	CR 68	LC PG 30	30	43 <sup>-11</sup> / <sub>16</sub> x 74 <sup>-3</sup> / <sub>4</sub> "
		Dura Pane*	.27	.20	.18	.16	.46	.41	.36	CR 64			
	Picture	Triple Pane	.19	.19	.17	.16	.37	.33	.29	CR 74	LC PG 25	25	70 x 60"
		Dura Pane*	.26	.21	.19	.17	.49	.44	.39	CR 65			
	Case-ment	Triple Pane	.19	.16	.15	.14	.31	.28	.25	CR 76	C PG 30	30	32 x 59"
		Dura Pane*	.26	.18	.17	.15	.41	.37	.34	CR 65			

Triple glaze tested with LoE3 glass, Duralite spacer and Argon gas filled \* Durapane dual glaze unit featuring LoE3 Tempered + Laminated glass





## GS WINDOWS STC RATINGS COMPARISON

# STC RATING

Sound Transmission Class (or STC) is a rating that reflects the decibel reduction of airborne sound that a window or door provides.

The STC rating of windows and doors can be a decisive factor when selecting fenestration products for dwellings in areas with high noise levels.

## TRIPLE PANE - DuraPane\* (LAMINATED)

## GS WINDOWS STC RATINGS COMPARISON

	Style	Glazing	IG width	Glass 1	Glass 2	Glass 3	STC Rating
windows	Slider	Triple pane	1"	3/32"	3/32	3/32"	28
		DuraPane	1"	1/8"	1/4" Lami		34
	Single Hung	Triple Pane	1"	3/32"	3/32"	3/32"	30
		DuraPane	1"	1/8"	1/4" Lami		33
	Picture	Triple Pane	1"	3/32"	3/32"	3/32"	28
		DuraPane	1"	1/8"	1/4" Lami		33

\* DuraPane dual glaze unit featuring Laminated + Laminated glass



# Galaxy Series

## **GALAXY FAMILY OF WINDOWS & DOORS**

Galaxy Windows and Doors Series GX-2200 add function and Beauty to any project. Designed to integrate modern window technology with clean beautiful lines, all while staying budget friendly. A modern beveled frame creates added thickness and multiple chambered airspace that increases thermal efficiencies. The increased frame width allows for  $\frac{3}{4}$ " glass units containing state of the art glass technology.

Cardinal 366 glass comes standard with argon filled interior. So, whether your looking to upgrade the aesthetics of your building or reduce your cooling and heating bills with the latest in thermal technology Galaxy Series is the perfect fit for any project.





## DISTINCTIVE FEATURES EXCELLENT BENEFITS

Select Galaxy Series to replace old aluminum or wood windows. Manufactured in vinyl, these virtually maintenance free windows and doors are designed to add beauty and functionality to your project. Our Galaxy full family of windows and patio doors offers the standard features you want with thermal performance that will translate into energy savings and comfort for you. The performance you want in beautiful windows and doors made to last.

Our Galaxy Series offers all the styles that make it a preferred choice for many projects. Horizontal sliders, double hungs, tilt-in single hungs and all other styles can be combined for an attractive look and enhanced functionality.



## DURABILITY AND EASE OF USE

- Heavy duty extruded vinyl for structural strength & durability
- Even sight lines for a balanced look
- Miter cut & fusion welded frame & sash for structural integrity
- Steel reinforced sashes for outstanding support
- Integral pull rail for easy operation of moving sash
- Dual wall replacement flange construction
- 1" nailing fin set back for new construction applications
- Auto-lock for easy locking & heavy duty hardware on case-ments & awnings
- All metal window rollers on sliding models for long lasting smooth performance
- Hung models feature constant force counter weight balance system
- Vent latches for adjustable ventilation
- Double Hung models allow both sashes to tilt in for safe and easy cleaning from inside the home
- Tilt in Single Hung models allow operating sash to tilt in for safe and easy cleaning from inside the home
- Weep hole covers prevent debris from obstructing the drainage system and provide an aesthetic look Enhanced energy efficiency
- Beveled, multi-chambered extruded vinyl improves thermal performance while providing an aesthetic appearance
- 2-3/4" frame depth for structural integrity
- Duralite spacer enhances thermal performance of glass components
- Full weather stripping helps prevent air infiltration
- 3/4" insulated glass unit featuring LoE3 glass
- Argon gas filled chamber for increased energy savings

### Standard Colors



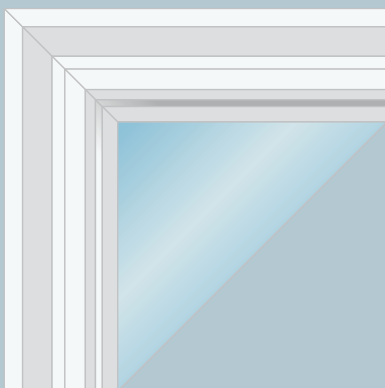
White



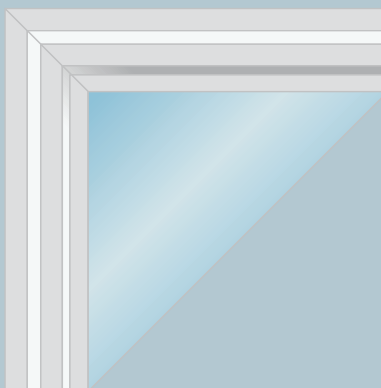
Almond

- Flat and sculptured grids in a variety of patterns
- Standard, custom and extra large sizes are available
- Factory stacking and mulling options in many different combinations
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be order to meet ENERGYSTAR® requirements
- Lifetime Warranty (Does not include glass breakage)

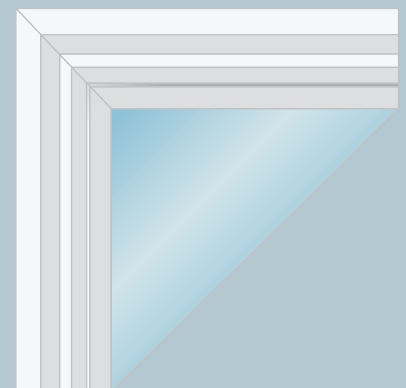
## GALAXY SERIES FRAME TYPES



Retrofit



Block

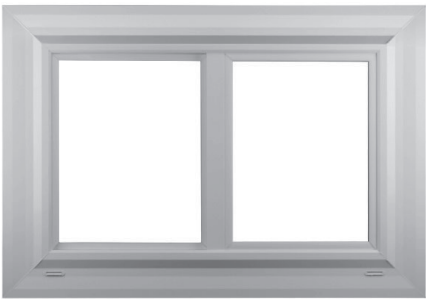


Nail-on

YOUR STYLE, YOUR CHOICE

Our Galaxy Series offers all the styles that make it a preferred choice for many projects. Horizontal sliders, double hungs, tilt-in single hungs and all other styles can be combined for an attractive look and enhanced functionality.

Horizontal Slider



Picture, fixed windows and geometric shapes



Double Hung



Tilt-in Single Hung



GALAXY BAY AND BOW WINDOWS

The Galaxy Family includes our Bay and Bow windows for a beautiful projected window with several lites and flanker options.

Casement and single hung flankers are available and include plywood top and bottom for structural stability. Contact your sales representative for more information on these versatile window styles.



Casements



Awnings



Galaxy Series Bay window with single hung flankers



Galaxy Series 4 lite Bow window



# GALAXY PATIO DOORS

GREEN SOUND SECURITY

## ENJOY THE OUTDOORS

Whether your project calls for a sliding or a French swing patio door, the Galaxy Series has a door for you. Galaxy sliding doors offer a wide panels and is available in several configurations. Your new gateway to the outdoors is manufactured in high quality vinyl, is virtually maintenance free and glides effortlessly.

Both our sliding and French swing patio doors have outstanding thermal performance and will dramatically reduce the energy consumption in your home. Select the style that best suits your architectural needs and enhance it with several options available to give your door a personal touch.

Our largest doors feature the reinforcement needed to ensure ease of operation and long lasting durability.

The Galaxy family has the door you need!

Standard Colors



White



Almond





# GALAXY PATIO DOORS

## FRENCH STYLE SLIDING PATIO DOOR

Galaxy Series French sliding patio doors feature wide panels and 1" insulated glass for energy efficiency. Galaxy doors combine Duralite spacers with warm edge technology, LoE3 glass and Argon gas fill, allowing outstanding insulation and enhanced energy efficiency.

New nylon composite rollers add durability and quiet functionality. Steel reinforcement inserts for superior strength are standard.

Galaxy French sliding patio doors can be personalized with flat or sculptured grids and for a unique look, upgraded to an exterior color finish.



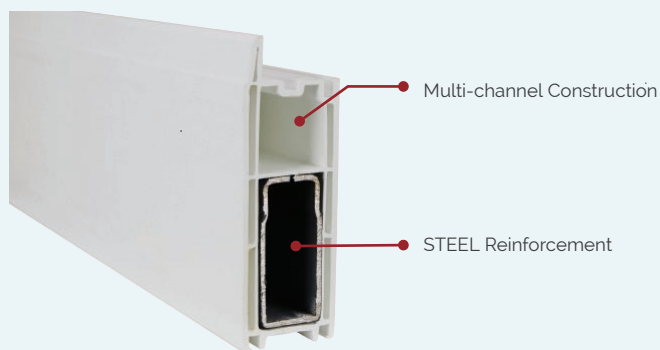
Galaxy sliding patio door viewed from the outside

## GALAXY BAY AND BOW WINDOWS

### Key features

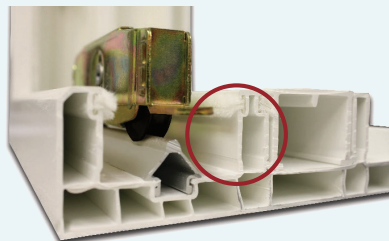
- Multi-chambered heavy duty extruded vinyl for structural strength and durability
- Frame depth is 5-5/8"
- Fusion welded corners for strength and stability
- 1" IG featuring Duralite spacer with warm edge technology for energy efficiency
- Door panels feature a multi-channel extrusion for increased energy performance and strength
- Steel and aluminum reinforcement for exceptional strength
- Heavy duty aluminum rail system offers smooth operation
- Galvanized steel rollers for added durability and quiet functionality
- Ergonomic handle with dual point locking system for ease of use and tight seal against elements infiltration
- 1" and 1-3/8" set-back nail-on fin for easy installation
- Replacement flange designed with heavy-duty dual wall construction
- Argon gas filled chamber for increased energy savings

### Door panel vinyl extrusion



### Aluminum rail system

Heavy duty aluminum rail system is standard on all GS Series sliding patio doors. This offers a smoother glide when opening and closing the door. Aluminum is also resistant to erosion and rust.



- Flat and sculptured grids in a variety of patterns
- Standard, custom and extra large sizes are available
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be order to meet ENERGYSTAR® requirements
- Lifetime Warranty

### Dual latch lock

Galaxy Series French sliding doors feature a new dual latch lock which provides extra security and a tight weather seal.

New ergonomic handle closes easily in one motion.



### Standard colors



White



Almond

# GALAXY PATIO DOORS

## FRENCH SWING PATIO DOOR

Galaxy French swing patio doors feature heavy duty vinyl construction. Heavy duty hinges come standard on swing door models and oversized doors feature commercial grade continuous hinges for easy operation of heavier operating panels.

French swing doors feature an ergonomic handle, which allows to close and lock the door in one motion.

Galaxy French Swing patio doors can be ordered with flat or sculptured grids in a variety of patterns and for a unique look, exterior colors are available in 17 shades.



## GALAXY BAY AND BOW WINDOWS

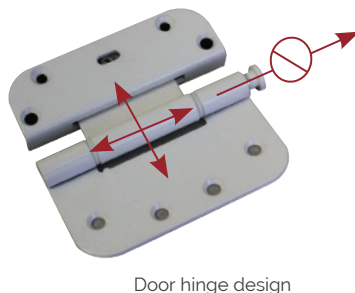
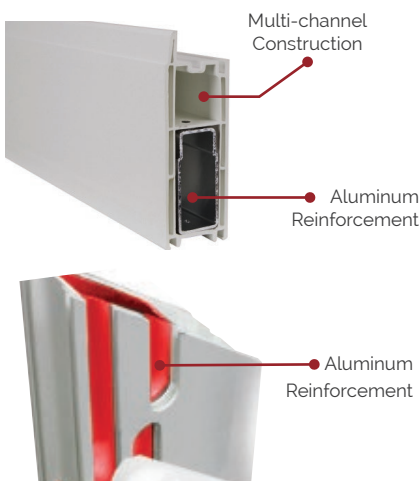
- Multi-chambered heavy wall extruded vinyl for structural strength and durability
- Frame depth is 5-5/8"
- Fusion welded corners for strength and stability
- 1" IG featuring Duralite spacer with warm edge technology for energy efficiency
- Door panels feature a multi-channel extrusion for increased energy performance & strength
- Aluminum reinforcement for structural integrity
- Heavy duty hinges are standard on
- Commercial grade continuous hinges in oversized doors provide outstanding support for heavier panels
- Ergonomic handle with multi-point locking system allows to close and lock the door in one motion
- 1" and 1-3/8" set-back nail-on fin for easy installation
- Replacement flange designed with heavy-duty dual wall
- In-swing or out-swing operation
- Side lites are available and can be fixed or operable• Argon gas filled chamber for increased energy savings

Ergonomic door handle



Our standard vinyl swing door multi-point locking system engages to firmly secure the door when it is closed and locked.

### Aluminum panel reinforcement



- Flat and sculptured grids in a variety of patterns
- Standard, custom and extra large sizes are available
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be order to meet ENERGYSTAR® requirements
- Lifetime Warranty

### Standard colors







# Imperial Series

## IMPERIAL FAMILY OF WINDOWS & DOORS

When something stands the test of time we call it a classic. Sliding windows have long been used in American homes for their ease of use and space saving nature. 1st Class Windows Imperial series sliders have improved on an American classic by reducing friction with a raised sliding rail, nylon roller housing and metal wheels.

Our Monorail system insures that only the wheels touch the frame to eliminate resistance. While competition use plastic, 1st Class Windows has integrated metal wheels to insure strength and prevent damage from debris that can collect on the track. Imperial sliders are engineered to provide a modern touch to an American classic.





## DISTINCTIVE FEATURES EXCELLENT BENEFITS

With all the extra glass used for energy efficiency the sound of a window sticking trying to open up or slamming shut by itself are all too common. While many windows still use century old technology where a string is attached to counterweights to open the window, 1st Class Windows has worked with engineers to come up with a modern fix.

Our constant force counterbalance allows you to open your window as far or as little as you like without the fear of the window crashing down. No more worrying about your window hanging on by a thread, update your home with technology for the 21st century.

# IMPERIAL SERIES WINDOWS

## MANY BENEFITS

### Durability and ease of use

- Heavy duty extruded vinyl for structural strength & durability
- Miter cut & fusion welded frame & sash for rigidity & integrity
- Steel reinforced sashes for outstanding support
- Integral pull rail for easy operation of moving sash
- 1-3/4" and 2-1/2" replacement flange designed with heavy-duty dual wall
- 1" and 1-3/8" nailing fin set back
- Auto-lock for easy locking action
- Aluminum wheel rollers on sliding models for long lasting smooth performance
- Single Hungs feature block and tackle balance system
- Weep hole covers prevent debris from obstructing the drainage system and provide an aesthetic look

## FUNCTIONALITY & A GREATER VIEW

### Imperial Styling



Single Hung



Picture windows and geometric shapes



Horizontal Slider

### Standard Colors



White



Almond

### Enhanced energy efficiency

- Beveled, multi-chambered extruded vinyl improves thermal performance while providing an aesthetic appearance
  - 3-1/4" Retrofit frame depth
  - 2-3/4" Nail-on frame depth
  - 3/4" insulated glass unit featuring LoE3 glass and Duralite spacer enhances thermal performance of glass components
  - Full weather stripping helps prevent air infiltration
  - Argon gas filled chamber for increased energy savings
- 
- Flat and sculptured grids in a variety of patterns
  - Standard, custom and extra large sizes are available
  - Factory stacking & mulling options in many different combinations
  - AAMA & NFRC certified to meet or exceed industry structural & energy efficiency standards
  - May be ordered to meet ENERGYSTAR® requirements
  - Lifetime Warranty (Does not include glass breakage)

## IMPERIAL SERIES FRAME TYPES



1-3/4" replacement flange



Block

2-1/2" replacement flange



Nail-on



1" Setback



1-3/8" Setback





### PRACTICAL FUNCTIONALITY

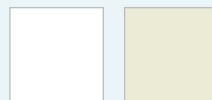
#### Key features

- Multi-chambered heavy duty extruded vinyl for structural strength and durability
- Frame depth is 5-5/8"
- Fusion welded corners for strength and stability
- 1" IG unit featuring Duralite spacer with warm edge technology for energy efficiency
- Door panels feature a multi-channel extrusion for increased energy performance and strength
- Steel and aluminum reinforcement for exceptional structural integrity
- Heavy duty aluminum rail system offers smooth operation
- Steel galvanized adjustable rollers with steel housing for added durability
- Ergonomic handle with dual point locking system for ease of use and tight seal against elements infiltration
- 1" and 1-3/8" nailing fin set back for easy installation
- Replacement flange designed with heavy-duty dual wall
- Argon gas filled chamber for increased energy savings



Imperial sliding patio door

#### Standard Colors



White

Almond

#### Dual latch lock



Imperial sliding doors feature a new dual latch lock which provides extra security and a tight weather seal. New ergonomic handle closes easily in one motion.



# Windows & Doors Enhancements

## CAREFULLY SELECTED HIGH-PERFORMANCE MATERIALS

Galaxy Windows and Doors Series GX-2200 add function and Beauty to any project. Designed to integrate modern window technology with clean beautiful lines, all while staying budget friendly. A modern beveled frame creates added thickness and multiple chambered airspace that increases thermal efficiencies. The increased frame width allows for  $\frac{3}{4}$ " glass units containing state of the art glass technology.

Cardinal 366 glass comes standard with argon filled interior. So, whether your looking to upgrade the aesthetics of your building or reduce your cooling and heating bills with the latest in thermal technology Galaxy Series is the perfect fit for any project.



PATTERN & COLOR GLASS SELECTION

Our variety of pattern glass designs preferred options for bathrooms, add character, privacy and dimension to windows or doors. Bronze and gray glass are also available.

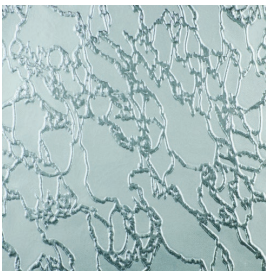


Pattern glass is a great option to accomplish privacy without blocking natural light



Imperial Single Hung window featuring obscure glass

PATTERN GLASS SELECTION



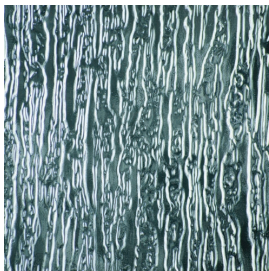
Delta Frost



Glue Chip



Obscure



Rain

COLOR GLASS SELECTION



Bronze



Gray



GS Sliding patio door featuring sculptured grids in Double Prairie pattern

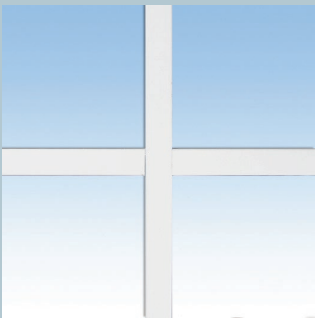
GRID OPTIONS

Add an elegant element to your windows and doors with a grid design. With several patterns to choose from and the benefit of having the grids placed inside the insulated glass unit, cleaning your windows is easy and convenient.

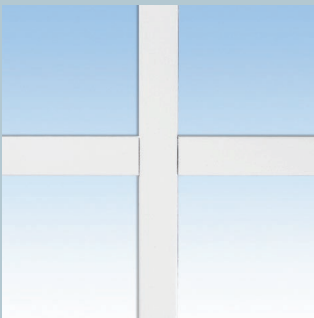
Available grid patterns, Marginal, Double Prairie and Colonial

FLAT GRIDS

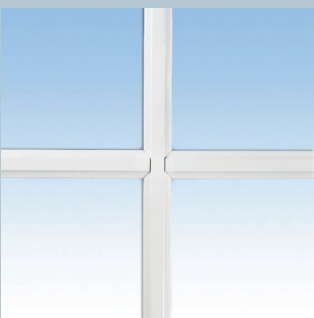
SCULPTURED GRIDS



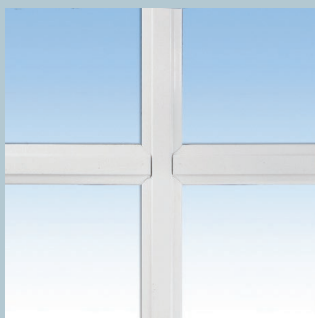
5/8"



3/4"


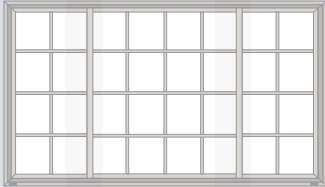

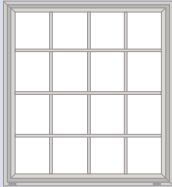

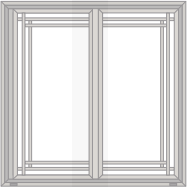
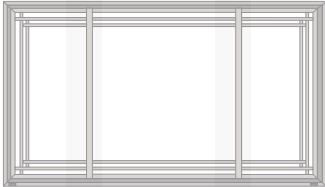

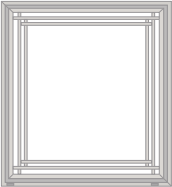

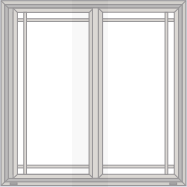
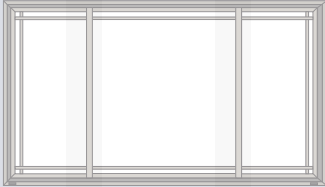

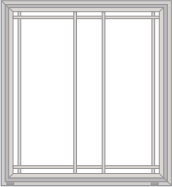

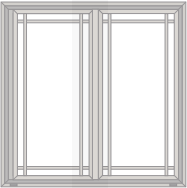
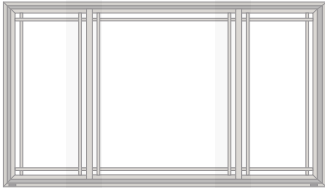

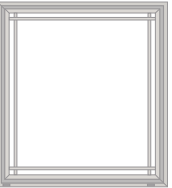

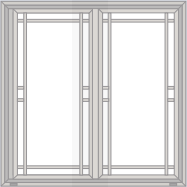
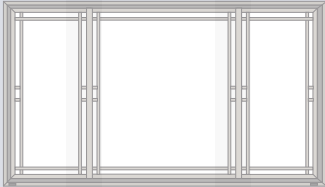

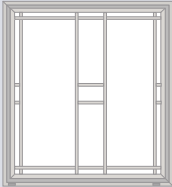


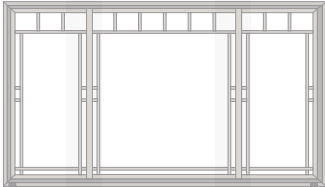
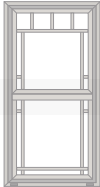
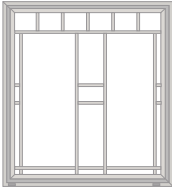



5/8"



1"



WINDOW CONFIGURATIONS					
	XO or XX	XOX	DH-SH	O	HALF ROUND ARCH
Colonial	 XO Colonial A-4W-4H	 XOX Colonial A-8W-4H	 DH/SH Colonial A-2W-4H	 O Colonial A-4W-4H	 Arch Half Round Colonial A-Ahr Sunstar 1
Double Prairie	 XO Double Prairie E-Dp 22	 XOX Double Prairie E-Dp 27	 DH/SH Double Prairie E-Dp 22	 O Double Prairie E-Dp 17	 Arch Half Round Double Prairie E-Ahr-Dp-Top-8
Marginal	 XO Marginal C-Mg 18	 XOX Marginal C-Mg 27	 DH/SH Marginal C-Mg 12	 O Marginal C-Mg 15	 Arch Half Round Marginal C-Ahr-MG Top-9
Marginal	 XO Marginal B-Mg 12	 XOX Marginal B-Mg 15	 DH/SH Marginal B-Mg 12	 O Marginal B-Mg 9	 Arch Half Round Marginal B-Ahr-MG Top-5
Marginal	 XO Marginal D-Mg 26	 XOX Marginal D-Mg 39	 DH/SH Marginal D-Mg 16	 O Marginal D-Mg 21	 Arch Half Round Marginal D-Ahr-MG Top-9
Marginal	 XO Marginal F-Mg 28	 XOX Marginal F-Mg 42	 DH/SH Marginal F-Mg 17	 O Marginal F-Mg 22	 Arch Half Round Marginal F-Ahr-MG Top-7

	DOOR CONFIGURATIONS		
	XO	OXO	OXXO
Colonial	 <p>XO Colonial A-6W-5H</p>	 <p>OXO Colonial A-9W-5H</p>	 <p>OXXO Colonial A-12W-4H</p>
Double Prairie	 <p>XO Double Prairie E-Dp 22</p>	 <p>OXO Double Prairie E-Dp 27</p>	 <p>OXXO Double Prairie E-Dp 32</p>
Marginal	 <p>XO Marginal C-Mg 18</p>	 <p>OXO Marginal C-Mg 27</p>	 <p>OXXO Marginal C-Mg 36</p>

	DOOR CONFIGURATIONS		
	XO	OXO	OXXO
Marginal	 <p>XO Marginal B-Mg-12</p>	 <p>OXO Marginal B-Mg-15</p>	 <p>OXXO Marginal B-Mg-18</p>
Marginal	 <p>XO Marginal D-Mg-26</p>	 <p>XOX Marginal D-Mg-39</p>	 <p>DH/SH Marginal D-Mg-52</p>
Marginal	 <p>XO Marginal F-Mg-26</p>	 <p>OXO Marginal F-Mg 39</p>	 <p>OXXO Marginal D-Mg 52</p>





## Cardinal Glass

Since 1962, Cardinal's mission has been to provide the highest quality glass products for residential windows throughout the world.

Cardinal Industries is our trusted glass provider, from energy efficient glass to annealed and tempered options we, rely on Cardinal's products to manufacture high quality insulated glass units.

Energy efficiency is all about maintaining optimal temperatures with minimal energy loss. With Cardinal LoE<sup>3</sup> glass installed window heat can be dramatically reduced. This helps keep your home cool and comfortable. Ordinary window glass simply does not compare.

In cold weather months, heating costs increase energy consumption. Usually, 75% of an exposed window is glass. This directly affects the temperature inside. Better insulation will keep your home warmer and heating cost down.

Cardinal's LoE<sup>3</sup> glass provides outstanding protection against fading and ultraviolet damage. Blocking out up to 95% percent of harmful rays will help avoid sun damage and fading inside the home. Visible light still shines through for brightness without significant darkness or tinting effects.



enviro  sealed

windows™ and doors

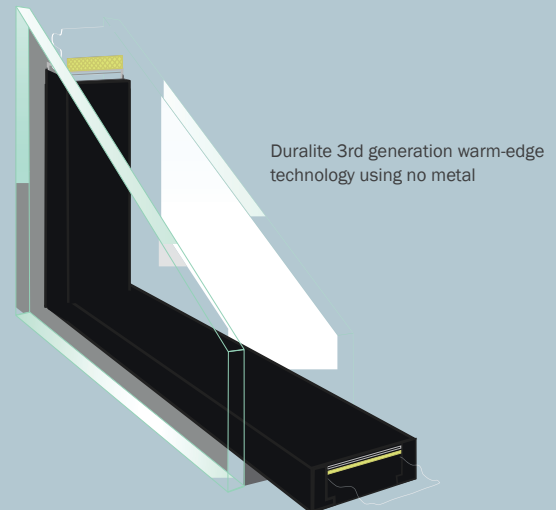
Powered by

**Duralite®**

### Warm Edge Technology.

All 1st Class Windows Series products feature Duralite spacers that provide maximum insulation between glass panels. Energy inside the home is kept where it should be, inside. Keep heat out during summer months and cold out during the winter.

- Composite laminating technology
- Polycarbonate spacer element, no metal
- A unique patented design
- Smooth surface appearance
- Black sight line
- Proven adhesive technology
- Superior argon gas retention
- Minimal compression required
- Lower conductivity polymeric warm edge spacer
- Improved condensation resistance
- Warmer edge of glass temperature



**INTERLOCK**

**ASSA ABLOY**

With generations of experience in designing, manufacturing and distributing window and door hardware across the globe, the collective ingenuity of the team at Interlock USA has been decades in the making. Perhaps best known as the inventor of the automatic sash lock system for vinyl windows, Interlock specializes in working closely with window and door manufacturers to create innovative hardware designs that differentiate their products from the competition.

Through innovative design, superior technical support and personalized service, Interlock creates unique, sophisticated hardware solutions that consistently hit the mark with consumers—both in form and function.

With worldwide resources through ASSA ABLOY, and partnerships with globally recognized companies such as the SIEGENIA-AUBI Group (SIEGENIA-AUBI & KFV), Dr. Hahn and Brio, Interlock USA provides comprehensive, solutions for window and door manufacturers throughout North America. With a global foot print, Interlock ASSA Abloy provides high quality hardware for several window and door applications.

Interlock USA is proud to be a member of the American Architectural Manufacturers Association (AAMA).



## GS, Galaxy & Imperial Series of Vinyl Windows & Patio Doors

