

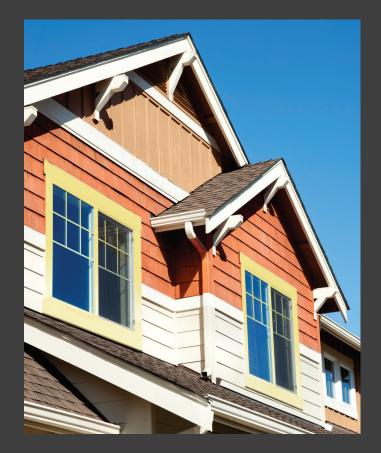
IMPERIAL windows & patio doors

series im-2100

FOR REPLACEMENT & NEW CONSTRUCTION APPLICATIONS

IMPERIAL 2100 SERIES OF WINDOWS AND PATIO DOORS

NOT ALL VINYL IS THE SAME



Not all vinyl is the same. Many factors go into the quality of vinyl, that is why we use a proprietary extrusion. Only 1 OO% u-PVC should be used in the formulation of a vinyl window the U denotes that the material is unplasticised polyvinyl chloride. Many lesser windows will use plasticizers in their compounds which are cheaper to use but soften the material which reduces the material's strength causing warping, bending, or failure in the future. Another key to vinyl formulation is the additive of light(UV) and weathering stabilizers.

Nobody wants a yellow window or one that will crack and become susceptible to the elements. To prevent this we use the optimal amount of the UV and weather stabilizer titanium dioxide. All our vinyl compounds must past accelerated weather and UV tests before being certified market ready. Next is the addition of impact modifiers. Many companies forgo this step which reduces the durability of the vinyl and can even lead to weaker welding joints. Not all vinyl is the same, make sure you know the difference and insure your home's integrity.

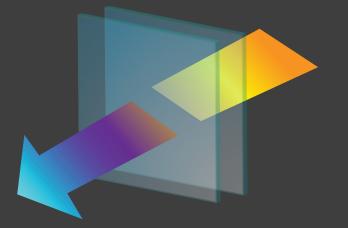
THERMAL CONTROL AND COST SAVINGS FOR YOUR HOME

When the temperature soars, ordinary glass just can't handle the heat. And tinted glass spoils the view. To solve this issue We have partnered with Cardinal Glass to use LoE³- 3 6 6, which has been specially formulated to reject the sun's heat without affecting the view. Its proprietary triple silver coating lets more light while keeping more heat out, so your home stays cool and comfortable. With the insertion of Argon gas in between double pane glass combinations We offers the excellent efficiency in thermal control and cost savings for your home.

What's more, LoE³-366 provides exceptional fading protection as well. It blocks 95% of the sun's damaging ultraviolet rays (a leading cause of fading), so it will help your furniture, carpets, curtains and wood flooring stay beautiful for years to come.

REDUCED HEAT TRANSFERENCE

Dual pane construction features 1 layers of Cardinal LoE3 glass for UV rays blocking capability. UV ray protection, will prevent fading and sun damage of items inside your home.





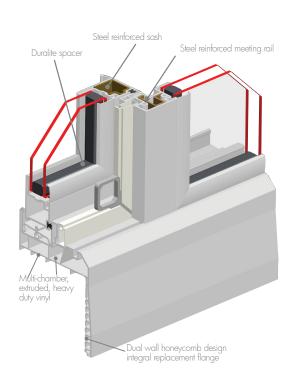




IMPERIAL SLIDING WINDOWS SERIES IM-2101

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. 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, we have 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.

EXCEPTIONAL CONSTRUCTION AND DESIGN



Auto-lock by Interlock ASAA ABLOY

removable cover

Imperial Windows feature the original European inspired automatic sash lock by Interlock ASAA ABLOY, specialists in innovative hardware solutions for the window and door industry around the world.



Matching the vinyl color with a

FRAME OPTIONS

For replacement applications. This frame type allows convenient installation without the need to break stucco. 2 - 1/2" replacement flange is also available.

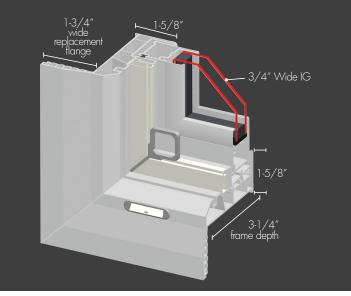
RETROFIT

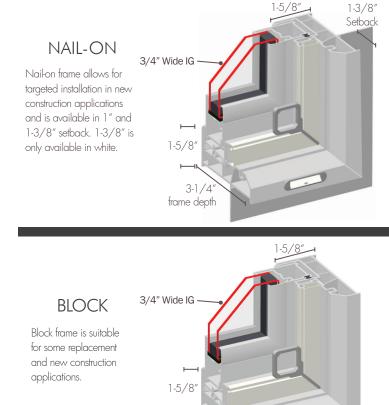
• 1-3/4" standard and optional 2-1/2" replacement flange

designed with heavy-duty dual wall

• 1" nailing fin set back in white or almond

• 1-3/8" nailing fin set back available in white

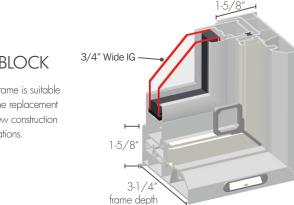




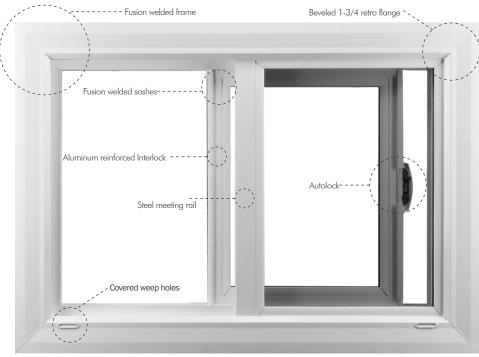
Window Rollers

Imperial sliding windows feature high quality steel tandem rollers in a nylon housing, for smooth gliding operation even at the largest sizes. Our monorail system insures that only the wheels touch the frame to eliminate resistance. These rollers can be adjusted to for effortless operation of window sash.





SLIDING WINDOWS FEATURES & BENEFITS



Imperial XO window, outside view

Weatherability

Metals can corrode from exposure to weather and pollution. uPVC is naturally resistant to moisture and atmospheric pollutions such as acids, alkalis and salt air making it the prefect material to stand the test of time.

Energy Efficiency

The superior insulating properties of vinyl designed with heat reducing Multi-chambered profiles and Cardinal 3 6 6 glass Reduce Heat transfer up to 3 x that of standard single pane windows.

THERMAL, STRUCTURAL, & SOUND PERFORMANCE

Horiz Wi	mperia ontal S ndows	l liding XO	Thermal Performance					
Glazing			Grids	U Factor	SHGC	VT	CR Condensation Resistance	
Dual	2 mm LoE3		None		.32	.53		
		2 mm Clear	3/4 - 5/8″	0.28	.29	.47	CR 62	
			>1″		.26	.42		



Easy operation

Dual metal rollers are durable and help insure smooth openings and closings.

lecotech

A tight seal

Multiple weather-strips give you protection against air infiltration

Simple to clean Sliding sash can be removed to clean exterior glass from inside your home

Design

Multiple grid styles and configurations are possible for whatever your application

Security

Auto locks insure that every time you close the window your home is sealed, giving you security and peace of mind

Structural Integrity

The mechanically fastened joints of aluminum frames may admit air and water. Fusion-welded uPVC joints create an impervious seal.

Maintenance

Unlike aluminum and wood, uPVC is virtually maintenance free. It never needs paint, and requires only an occasional wash and wipe to clean.



Options

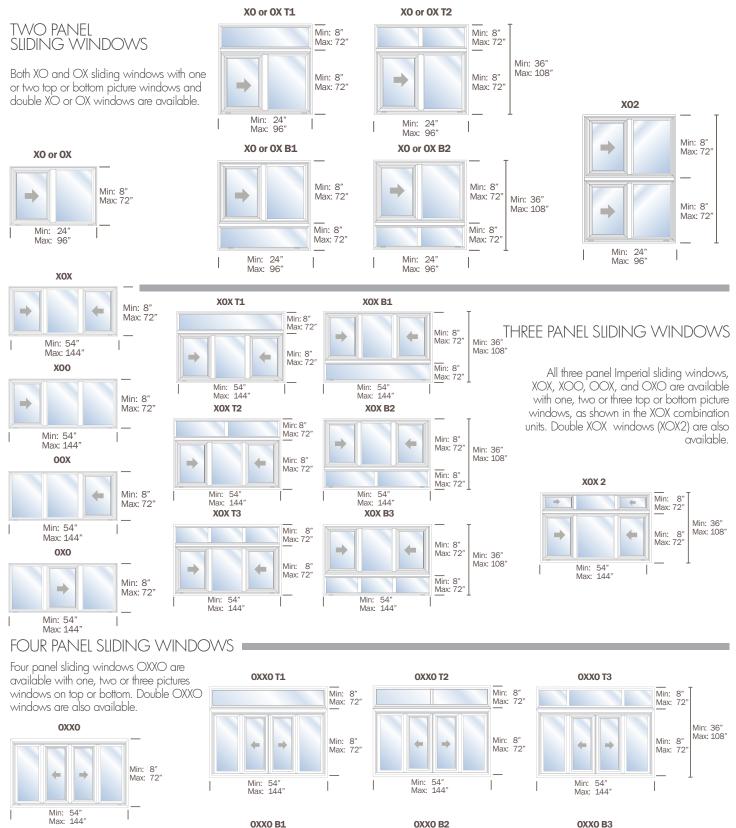
- Standard and custom sizes
- Factory stacking and mulling options in many different combinations
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be ordered to meet ENERGYSTAR® requirements
- Lifetime Warranty (Does not include glass breakage)

Standard colors





ecotech IMPERIAL SLIDING WINDOWS SERIES 2101



Min: 8" Max: 72"

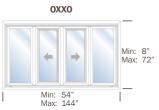
Min: 8" Max: 72"

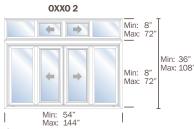
Min: 54" Max: 144"

Min: 8" Max: 72"

Min: 8" Max: 72"

Min: 54" Max: 144"





Min: 8 Max: 72" Min: 36" Max: 108"

Min: Max: 72"

Min: 54" Max: 144"

SINGLE HUNG WINDOWS SERIES IM-2102

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, Ecotech has worked with engineers to come up with a modern fix.

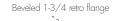
Our constant force counterbalance allows you to open your window as far or as little as you like without the fear of the window crashing down. No more worrying about your window hanging on by a thread, update your home with technology for the 21 st century.

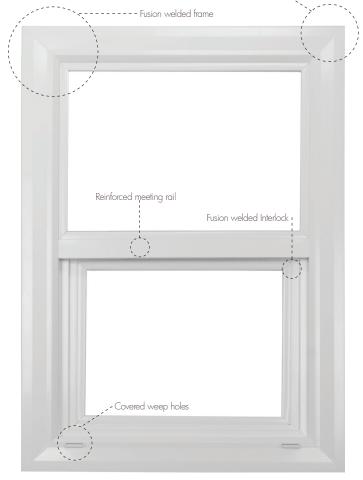
IMPERIAL

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Weatherability

Metals can corrode from exposure to weather and pollution. uPVC is naturally resistant to moisture and atmospheric pollutions such as acids, alkalis and salt air making it the prefect material to stand the test of time

SINGLE WINDOWS FEATURES & BENEFITS

Easy operation

Constant force counter weight balance system for smooth effortless operation.

A tight seal

Multiple weather-strips give you protection against air infiltration

Simple to clean

Operating sash can be removed to clean exterior glass from inside your home

Design

Multiple grid styles and configurations are possible for whatever your application

Security

Auto locks insure that every time you close the window your home is sealed, giving you security and peace of mind

Structural Integrity

The mechanically fastened joints of aluminum frames may admit air and water. Fusion-welded uPVC joints create an impervious seal.

Maintenance

Unlike aluminum and wood, uPVC is virtually maintenance free. It never needs paint, and requires only an occasional wash and wipe to clean.

Weatherability

Metals can corrode from exposure to weather and pollution. uPVC is naturally resistant to moisture and atmospheric pollutions such as acids, alkalis and salt air making it the prefect material to stand the test of time.

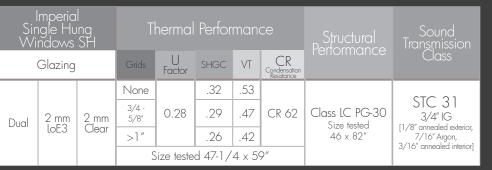
Energy Efficiency

The superior insulating properties of vinyl designed with heat reducing Multi- chambered profiles and Cardinal 366 glass Reduce Heat transfer up to 3 x that of standard single pane windows.

Energy Efficiency

The superior insulating properties of vinyl designed with heat reducing Multi- chambered profiles and Cardinal 3 6 6 glass Reduce Heat transfer up to 3 x that of standard single pane windows.

THERMAL, STRUCTURAL, & SOUND PERFORMANCE exceed industry structural and energy





- Standard and custom sizes
- Factory stacking and mulling options in many different combinations AAMA and NFRC certified to meet or
- efficiency standards
- May be ordered to meet ENERGYSTAR® requirements
- Lifetime Warranty (Does not include glass breakage)

Standard colors



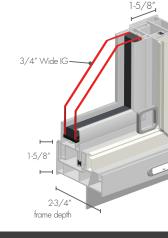
FRAME OPTIONS

- 1-3/4" standard and optional 2-1/2" replacement flange designed with heavy-duty dual wall
- 1" nailing fin set back in white or almond
- 1-3/8" nailing fin set back available in white

RETROFIT For replacement 1-3/4″ applications. This frame type 1-5/8 wide replacement allows convenient installation lange without the need to break stucco. 2 - 1/2" replacement flange is also available. 3/4" Wide IG -1-5/8 frame depth

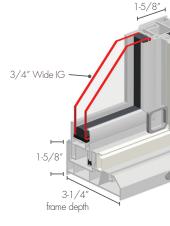
NAIL-ON

Nail-on frame allows for targeted installation in new construction applications and is available in 1" and 1-3/8" setback. 1-3/8" is only available in white.



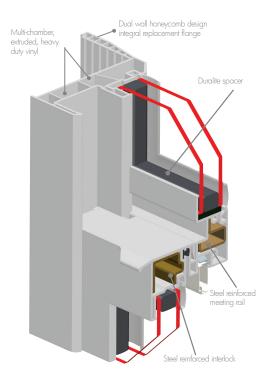
BLOCK

Block frame is suitable for some replacement and new construction applications.



EXCEPTIONAL CONSTRUCTION AND DESIGN







Auto-lock by Interlock ASAA ABLOY

Imperial Windows feature the original European inspired automatic sash lock by Interlock ASAA ABLOY, specialists in innovative hardware solutions for the window and door industry around the world.

- Matching the vinyl color with a removable cover
- Features robust dual hooks for superior forced entry resistance Effortless long lasting performance





Constant Force Coil Balance System

The ability to vertically move the sash in our single hung windows rests in a constant force balance system operated by interlocking 1/2" stainless steel coil springs in natural color housings, which allows the closing force to be constant on any position of the sash.

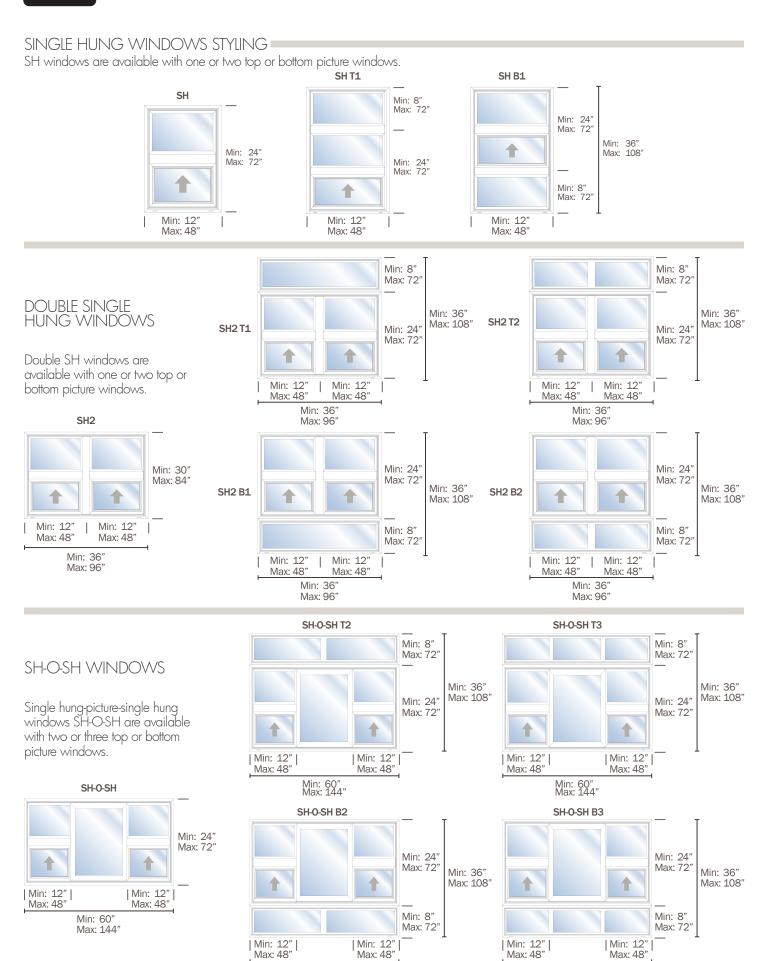
Different length units are used based on the height of the window and may have up to four coils which allow for effortless operation of moving sash.



Coils in casing

1″ Setback





Min: 60" Max: 144"

Min: 60" Max: 144"



IMPERIAL PICTURE WINDOWS SERIES IM-2106

efficient.

Picture windows are a simple and elegant touch to any room. Placed right they are a frame to the world outside. Our Imperial Series Picture Windows are designed to offer unobstructed views and maximum light exposure. The minimized frame offers maximum glass area allowing light to flood the room while significantly reducing heat transfer using Cardinal 366 glass. Use of a non-metallic Duralite spacer to separate glass panes also allows Ecotech to offer lower heat transfer than the competition. So, enjoy the view, light up your room all while keeping your home cooler and energy

PICTURE WINDOWS FEATURES & BENEFITS

Design

Multiple grid styles and configurations are possible for whatever your application

Structural Integrity

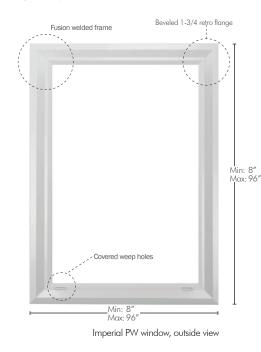
The mechanically fastened joints of aluminum frames may admit air and water. Fusion-welded uPVC joints create an impervious seal.

Maintenance

Unlike aluminum and wood, uPVC is virtually maintenance free. It never needs paint, and requires only an occasional wash and wipe to clean.

Weatherability

Metals can corrode from exposure to weather and pollution. uPVC is naturally resistant to moisture and atmospheric pollutions such as acids, alkalis and salt air making it the prefect material to stand the test of time.

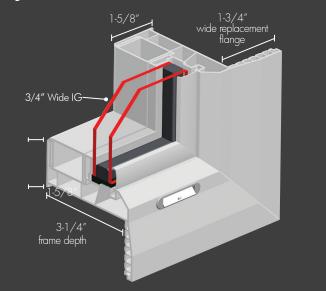


FRAME OPTIONS

- 1-3/4" standard and optional 2-1/2" replacement flange designed with heavy-duty dual wall
- 1" nailing fin set back in white or almond
- 1-3/8" nailing fin set back available in white

RETROFIT

For replacement applications. This frame type allows convenient installation without the need to break stucco. 2-1/2" replacement flange is also available.



SPECIALTY IMPERIAL WINDOWS: **GEOMETRIC SHAPES & COMBINATION UNITS**

Imperial Hexagon window, inside view

Energy Efficiency

The superior insulating properties of vinyl designed with heat reducing Multi- chambered profiles and Cardinal 3 6 6 glass Reduce Heat transfer up to 3 x that of standard single pane windows.

THERMAL, STRUCTURAL, & SOUND PERFORMANCE

Imperial Picture Windows PW			Thermal Performance					_Structural	Sound			·
Glazing		Grids	U Factor	SHGC	VT	Conden- sation Resistance	Performance	Sound Transmission Class				
			None	0.25	.35	.58	CR 63	Class R PG-15 Size tested 72 x 60"	STC 29 3/4" IG			.
	0	0	3/4 - 5/8″		.32	.51						
Dual 2 mm LoE3	2 mm LoE3		>1″		.29	.46			1/8″	7/16″ Argon	3/16″	
				Size teste	ed 47-1,	/4 x 59′	"		annealed exterior		annealed interior	

As tested with LoE3 glass, Duralite Spacer and Argon gas filled combined with clear glass.

Options

- Standard and custom sizes Geometric shapes
- 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 ordered to meet **ENERGYSTAR®** requirements
- Lifetime Warranty (Does not include glass breakage)

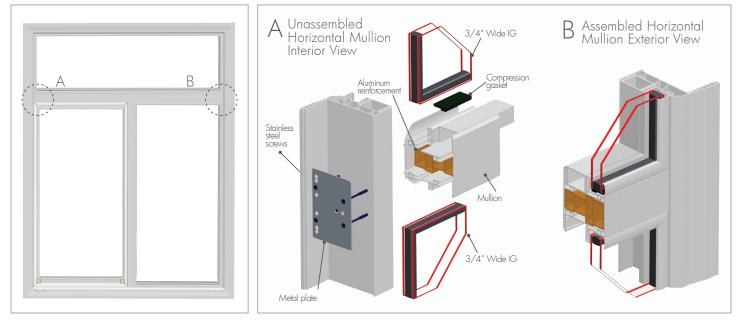
Standard colors

White Almond

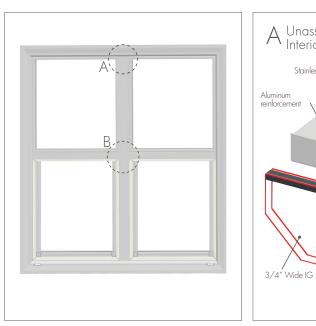
IMPERIAL SERIES COMBINATION UNIT WINDOWS

Our modular system allows different window types to be combined together through the use of a mullion. The mullion separates the two window types. Structural integrity is improved by allowing multiple window types to be combined and installed as one unit rather than installing multiple windows in one opening. The benefits of this system include reduced installation costs, more glass area, and improved weatherability. All mullions are attached with stainless steel screws through a metal plate into the vinyl frame and continuing into the steel reinforcement that is inside every mullion. Mullions can be applied horizontally or vertically allowing for many configurations.

XOT1 SLIDING WINDOW WITH ONE PICTURE ON TOP

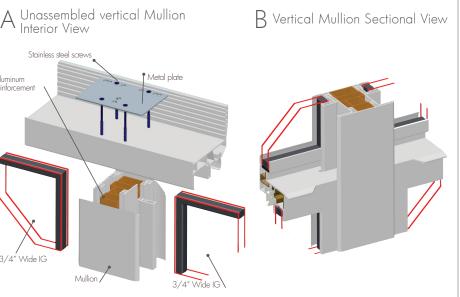


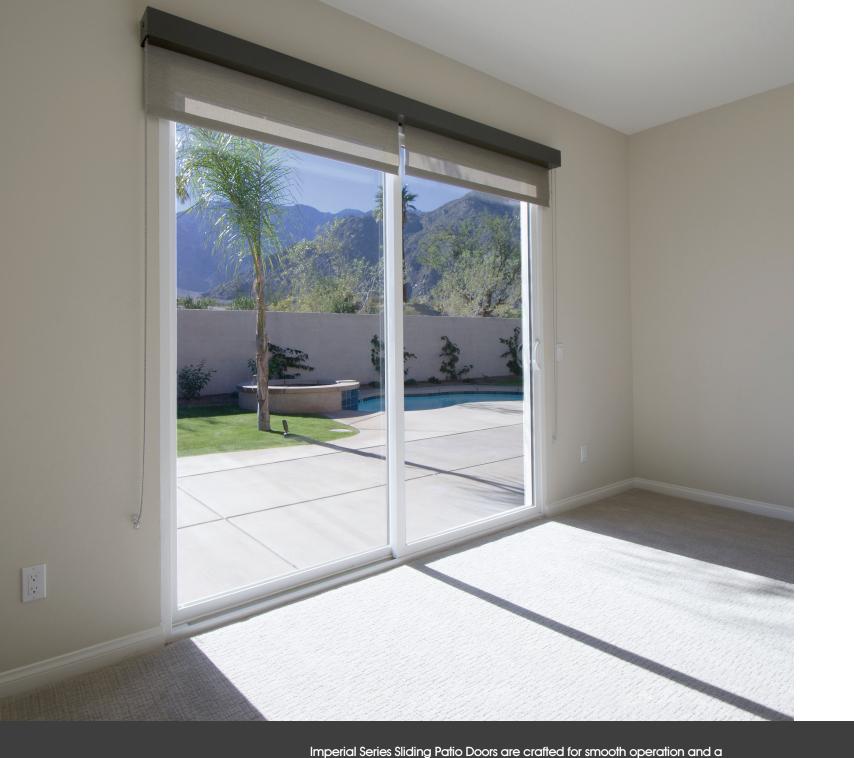
SH 2 DOUBLE SINGLE HUNG WINDOWS



IMPERIAL WINDOWS COMBINATION UNITS

ecotech





throughout to provide support and security.

Sliding Patio Door features at a glance, outside view						
01	Fusion welded frame and panels					
02	Ergonomically designed handle					
О3	Firmly secured and reinforced interlock					
04	Heavy duty extruded vinyl in frame and panel members					
05	2-1/4" wide rail and stiles					
06	Double weather-stripping					

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

Energy Efficiency

The superior insulating properties of vinyl designed with heat reducing Multi- chambered profiles and Cardinal 3 6 6 glass Reduce Heat transfer up to 3 x that of standard single pane windows.

THERMAL, STRUCTURAL, & SOUND PERFORMANCE

Imperial Sliding Patio Door PD			Thermal Performance*						
Glazing			Grids	U Factor	SHGC	VT	Condens Resista		
Dual	3 mm LoE3	3 mm Clear	None	0.29	.22	.52	CR		
			3/4 - 5/8″		.20	.46			
			>1″		.18	.40			
			Size tested 47-1/4 x 59"						

IMPERIAL SLIDING PATIO DOORS SERIES IM-2121

Our wheel base is supported by the steel core to prevent the weight of the sash from pushing the wheels into the vinyl which is a common issue with competitors non-reinforced wheels. A proprietary aluminum triangle monorail lifts the sash off the track to minimize friction, while our high strength steel (or optional stainless steel) rollers glide across the rail. Heavy duty 2" wheels with bearings can hold 1 2 5 LBS each and with at least 8 per door they effortlessly slide the sash over the track. Our concave wheel design insures there is no slipping from the track like other companies flat or rounded wheel bases, making for a smooth, maintenance free ride every time.

slim design. Imperial doors have a slim line sash and frame to maximize

viewing area and light exposure. Imperial doors are reinforced with steel

As tested with LoE3 glass, Duralite Spacer and Argon gas filled combined with clear glass.

IMPERIAL SLIDING PATIO DOOR SERIES 2121





Imperial XO Sliding Patio Door inside view

- 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 targeted installation
 - 2-1/2 replacement flange designed with heavy-duty dual wall
- Argon gas filled chamber for increased energy savings



- Standard and custom sizes
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be ordered to meet ENERGYSTAR[®] requirements
- Lifetime Warranty (Does not include glass breakage)





White

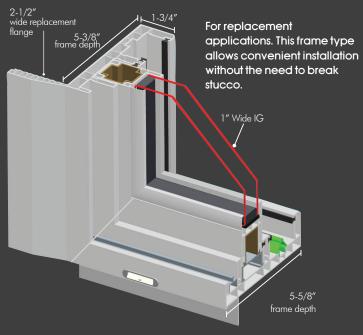
Almond

Options

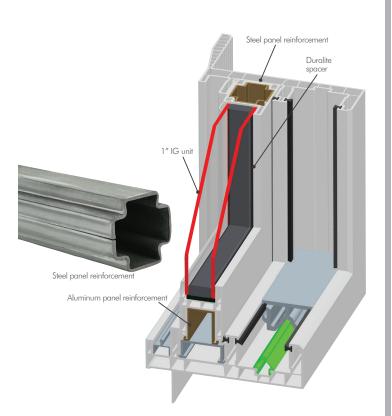
FRAME OPTIONS

- 2-1/2" replacement flange designed with heavy-duty dual wall
- 1" nailing fin set back in white or almond
- 1-3/8" nailing fin set back available in white

RETROFIT



Reinforced Panels for Structural Integrity



CAREFULLY SELECTED **HIGH-PERFORMANCE HARDWARE & PARTS**

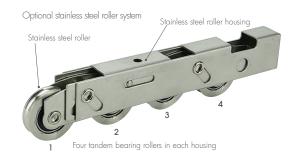
FOUR WHEEL TANDEM ROLLER SYSTEM

Imperial Patio Doors feature four-wheel tandem roller system in cold rolled steel housing and rollers, which provide long lasting smooth operation.

An optional commercial grade rolling system with casing and wheels in stainless steel is available upon request and is designed to effortlessly carry the our heavies door panels.

Optional Stainless Steel Roller Features

- Stainless steel housing
- Four strong tandem stainless steel concave rollers for quiet and durable rolling action
- Rollers slide on a heavy duty stainless steel track glider for smooth and soundless operation
- Each roller can hold up to 125 lbs for a total of 1000 lbs per door panel which delivers outstanding performance in large doors featuring the heaviest glass packages
- Rollers can be adjusted for smooth moving action





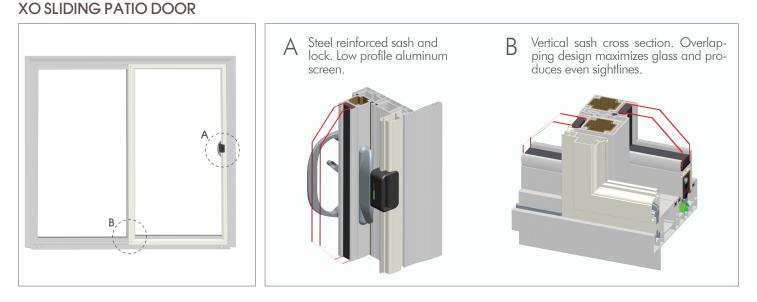
Dual latch lock

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

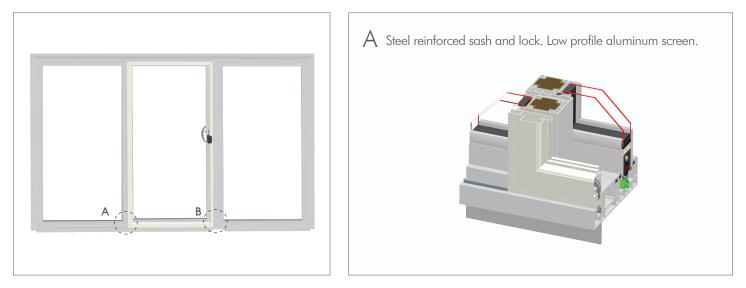


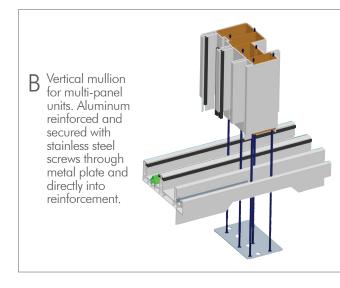


Imperial Door Handle and Locking system outside view



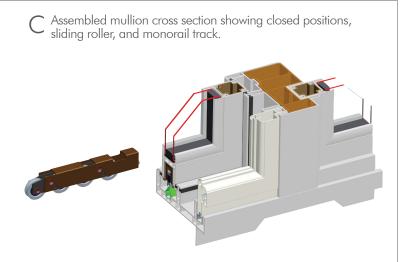
OXO SLIDING PATIO DOOR

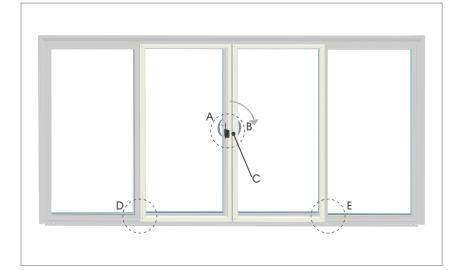


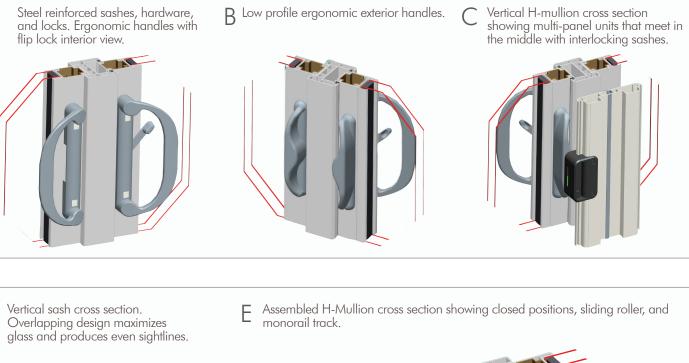


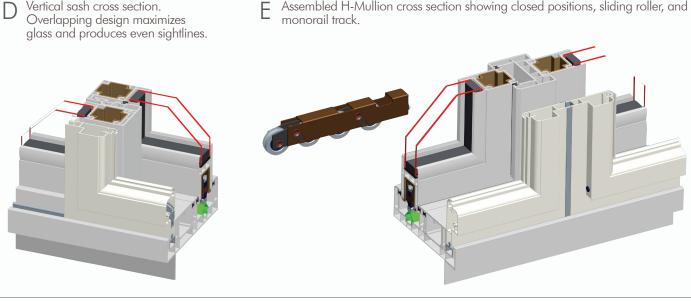
Imperial Door Handle and Locking system inside view



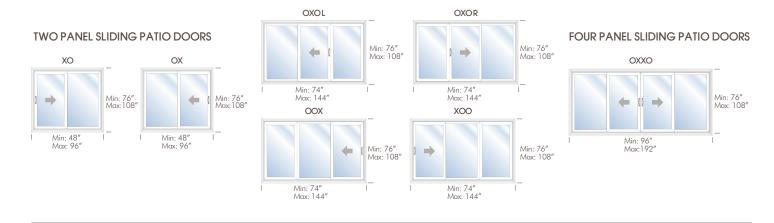








SLIDING PATIO DOORS STYLING



CUSTOM OPTIONS: SPECIALTY GLASS AND GRIDS

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.





Glue Chip

Delta Frost

Obscure

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.

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ecotech

THREE PANEL SLIDING PATIO DOORS





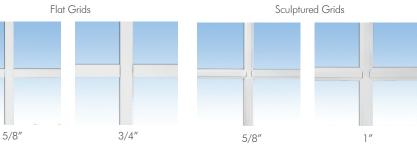


Rain



Gray

Other glass patterns available upon request. Please contact your Sales Representative for more details.



Available grid patterns, Marginal, Double Prairie and Colonial











Manufacturer of Certified Products