Imperial™ Vinyl Windows & Patio Doors Series IM-2100

CATALOG & COMPLETE SERIES PRICING

Value™ WINDOWS & DOORS



FOR REPLACEMENT AND
NEW CONSTRUCTION APPLICATIONS

SERIES IM-2100



OUR MISSION, VISION AND VALUES

Since 2005, *Value Windows and Doors Inc*, a family owned corporation, has focused on building new fenestration products that are within reach without compromising on quality. We have successfully developed long term relationships with our customers and will continue to deliver superior *quality* windows and doors; provide exceptional customer *service* and pursue business through *innovation* and advanced technology.

Our company's vision is to be the industry leader by leveraging our German-inspired Resource Planning System alongside our commitment to advancing automation to efficiently bring innovative and on time delivery of products to our customers. Our active and energetic CEO has traveled extensively and exchanged ideas with reputable window and door manufacturers as well as various hardware suppliers all over the world with the goal of continuously introducing innovations to our products that will change the landscape of the industry.

We will continually strive to be a leader and a key player in the window and door industry by providing enhanced services that exceed expectations, build strong relationships and profitability to our esteemed customers whom we consider as business partners.

We believe in treating our customers with respect and faith. We grow through creativity, intervention, and innovation. We incorporate honesty, loyalty, integrity and business ethics into all aspects of our business functions. Backed by a strong and solid engineering team, continued innovation of all our existing and future products, and a commitment to the pursuit of excellence in product designs and customer service; rest assured that Value Windows and Doors Inc has the ability to serve all your replacement and new construction projects.

PROUDLY MADE IN THE USA

OUR HIGH **QUALITY** FOUNDATION

GERMANY

USA

CHINA



Fenestration design concepts
Software "ERP" System
Automation equipment



Manufacturing
Headquarters

Entrepreneurship
Ingenuity

SUPPORT

GLOBAL RESOURCES



OUR TEAM



At Value, we control every step of the design process to ensure that each product we manufacture is of the highest quality.

The creativity of our international and interdisciplinary team of professionals with lengthy experience in the fenestration industry assures that all our windows and patio doors provide solutions for a variety of architectural needs.



NOT ALL VINYL IS THE SAME

Not all vinyl is the same. Many factors go into the quality of vinyl, that is why value uses its proprietary extrusion. Only 100% 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 Value uses the optimal amount of the UV and weather stabilizer titanium dioxide. All Value 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.



Value
WINDOWS & DOORS

THERMAL CONTROL AND COST SAVINGS FOR YOUR HOME

All our products feature LoĒ³-366 glass which combined with Duralite spacers and Argon gas fill insure outstanding thermal performance and energy savings for your home. Learn more about our energy efficient glazing options.

LoĒ³-366 GLASS + DURALITE SPACER + ARGON GAS FILL



Cardinal LoĒ³-366 glass on outside glass pane of Imperial sliding patio door

When the temperature soars, ordinary glass just can't handle the heat. And tinted glass spoils the view. To solve this issue Value has partnered with Cardinal Glass to use LoĒ³-366, 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 Value offers the excellent efficiency in thermal control and cost savings for your home.

What's more, LoĒ³-366 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.

ENHANCED GLASS PERFORMANCE

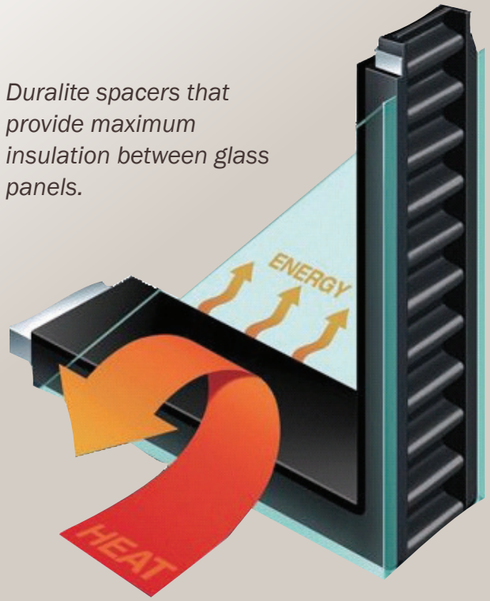
40% of a buildings energy loss is through Windows and Doors. With so much money flying out the window. It is imperative to place quality products in your building's openings. Typically, 75% of the exposed surface of a window and door is glass, and the temperature of the room-side of the glass directly affects the air temperature in the room. The better insulated the Window and Door glass, the more comfortable your room will be. Value Windows & Doors uses state of the art glass technology in all of its products reducing energy consumption and ensuring comfortable living.

All Value 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

enviro sealed windows™ and doors
Powered by **Duralite®**

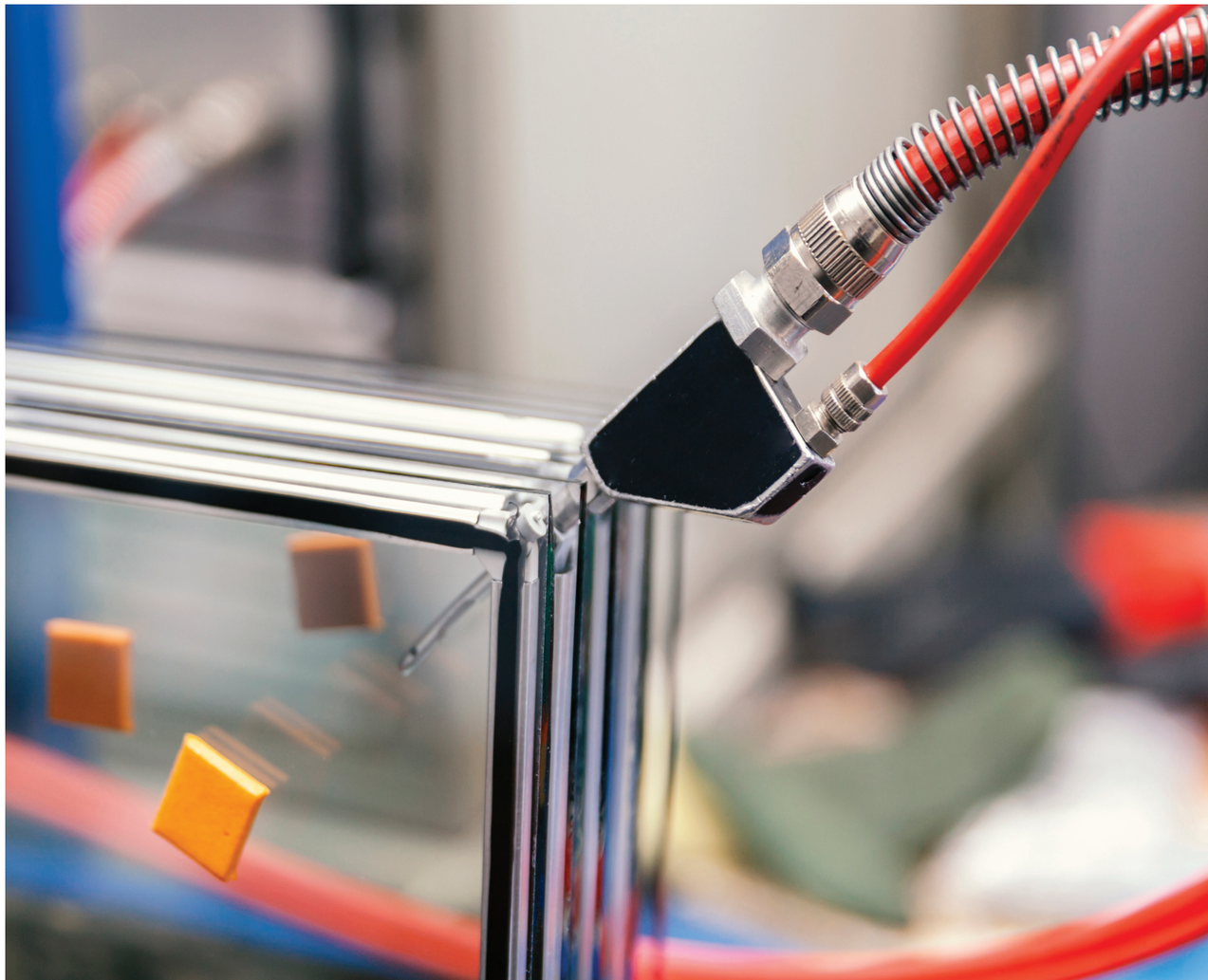
Duralite spacers that provide maximum insulation between glass panels.



ARGON GAS FILL

When the temperature soars, ordinary glass just can't handle the heat. And tinted glass spoils the view. To solve this issue Value has partnered with Cardinal Glass to use LoĒ³-366, 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 Value offers the excellent efficiency in thermal control and cost savings for your home.

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ENERGY PERFORMANCE TESTING, CERTIFICATION, AND LABELING

The National Fenestration Rating Council (NFRC) operates a voluntary program that tests, certifies, and labels windows, doors and skylights based on their energy performance ratings. Then NFRC label provides a reliable and standardized way to determine a window's energy properties and to compare products.

The NFRC label can be found on all Energy Star® qualified window, door, and skylight products, but ENERGY STAR bases its qualification not only on U-factor and solar heat gain coefficient (SHGC) ratings, described in the next page.

ENERGY STAR

NFRC
National Fenestration Rating Council

About Ratings

Heat Gain and Loss

Windows, doors, skylights can gain and lose heat through:

-Direct conduction through the glass or glazing, frame, and/or door
-The radiation of heat into a house (typically from the sun) and out of a house from room temperature objects, such as people, furniture, and interior walls
-Air leakage through and around them

These properties can be measured and rated according to the following energy performance characteristics:

U-factor is an indicator for how insulating your overall window is. The lower the U-Factor number, the more energy-efficient the window/door is. Especially important in colder climates.

Solar heat gain coefficient (SHGC) is the is the amount of heat the window absorbs, and transmits to the inside of your house. The lower the SHGC, the less solar heat it transmits and the greater its shading ability. A product with a high SHGC rating is more effective at collecting solar heat during the winter. A product with a low SHGC rating is more effective at reducing cooling loads during the summer by blocking heat gain from the sun. Your home's climate, orientation, and external shading will determine the optimal SHGC for a particular window, door, or skylight.

Air leakage is how much air is leaking into your house through the window when there is a pressure difference. Typically, drafty homes have high air leakage windows and doors. A product with a low air leakage rating is tighter sealing than one with a high air leakage rating.

Sunlight Transmittance

The ability of glazing in a window, door, or skylight to transmit sunlight into a home can be measured and rated according to the following energy performance characteristics:

Visible transmittance (VT) is how much visible light is going into your house through your window and door. A product with a higher VT transmits more visible light. VT is expressed as a number between 0 and 1. The VT you need for a window, door, or skylight should be determined by your home's daylighting requirements and/or whether you need to reduce interior glare in a space.



SLIM PROFILE, GREATER VIEW

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. Value 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, Value 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.

SLIDING WINDOWS FEATURES & BENEFITS



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

A tight seal
Value's 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

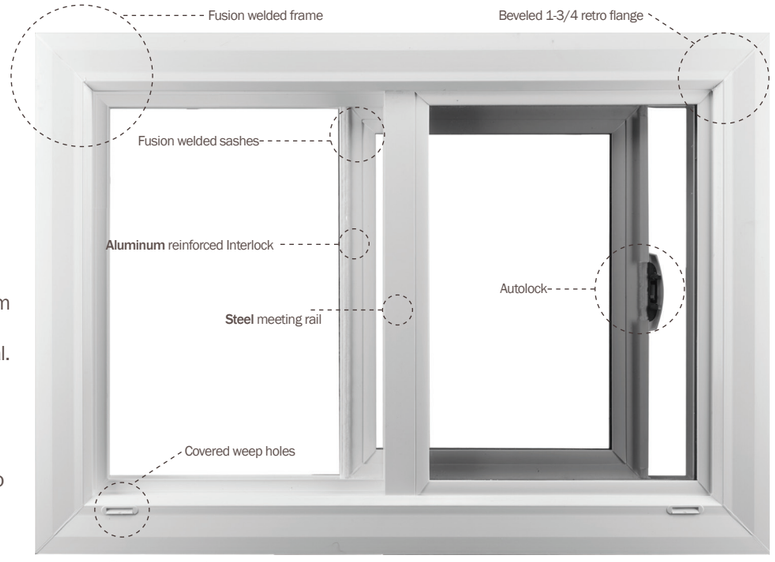
Security
Auto locks insure that every time you close the window your home is sealed, giving you security and peace of mind

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.

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.



Imperial XO window, outside view

Standard colors

White

Almond

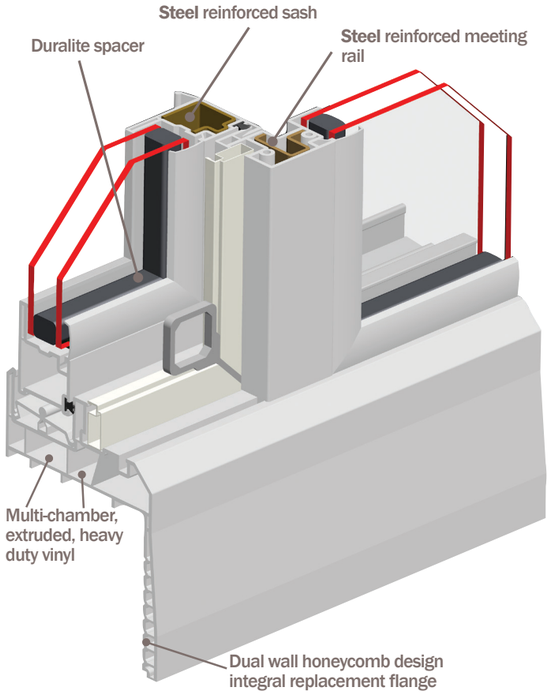
Options

- 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)

EXCEPTIONAL CONSTRUCTION AND DESIGN

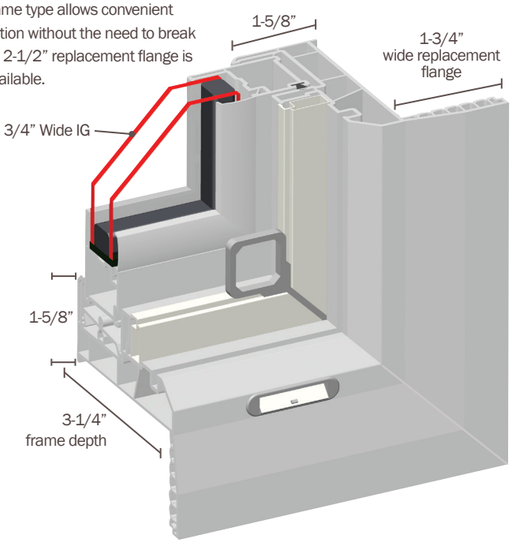
FRAME OPTIONS

- *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*



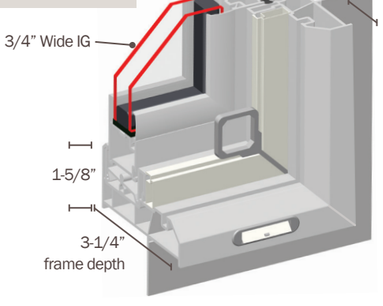
RETROFIT

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

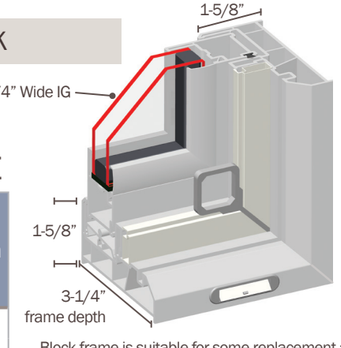


NAIL-ON

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



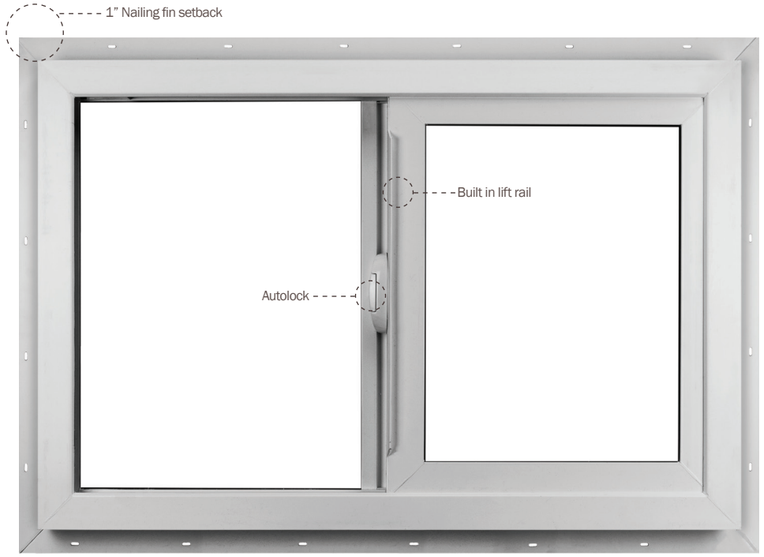
Block frame is suitable for some replacement and new construction applications.

THERMAL, STRUCTURAL, & SOUND PERFORMANCE

Imperial Horizontal Sliding Windows XO			Thermal Performance					Structural Performance	Sound Transmission Class
Glazing			Grids	U Factor	SHGC	VT	CR Condensation Resistance		
Dual	2 mm LoE3	2 mm Clear	None	0.28	.32	.53	CR 62	**Class LC PG-30** Size tested 71 x 70"	**STC 31** 3/4" IG [1/8" annealed exterior, 7/16" Argon, 3/16" annealed interior]
			3/4 -5/8"		.29	.47			
			>1"		.26	.42			

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

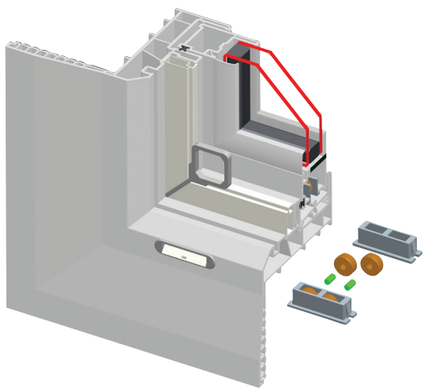
CAREFULLY SELECTED HIGH-PERFORMANCE HARDWARE & PARTS

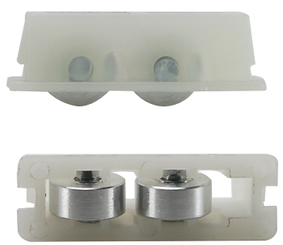


Imperial XO window, nail-on frame, inside view

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.





Auto-lock by Interlock ASAA ABLOY

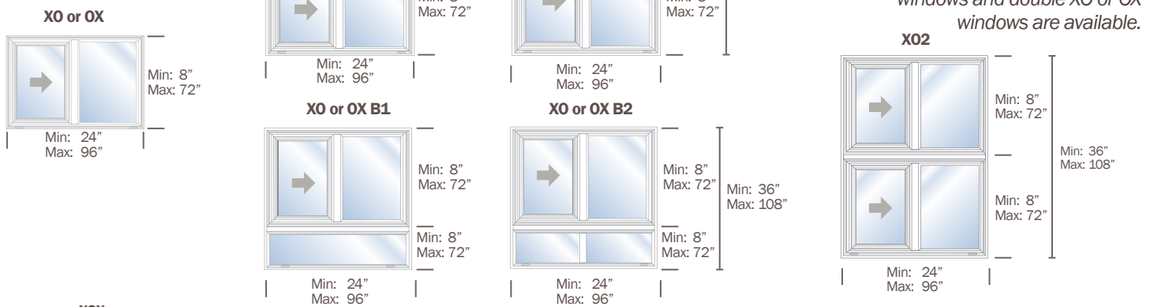
Imperial Windows feature the original European inspired automatic sash lock by Interlock ASAA ABLOY, specialists in innovative hardware solutions for the window and door industry around the world.

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



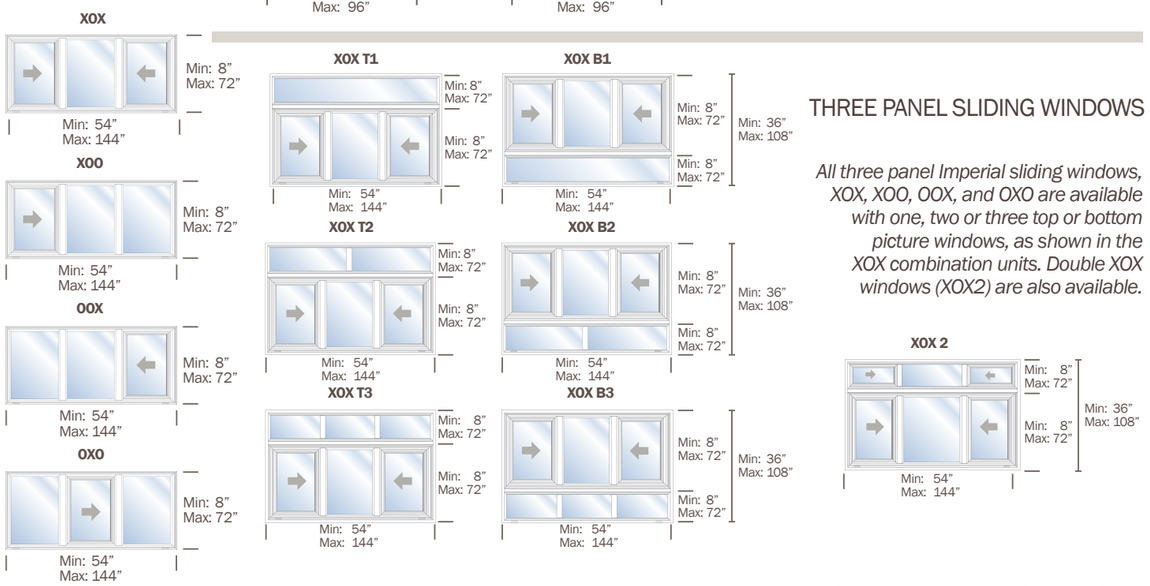
TWO PANEL SLIDING WINDOWS

Both XO and OX sliding windows with one or two top or bottom picture windows and double XO or OX windows are available.



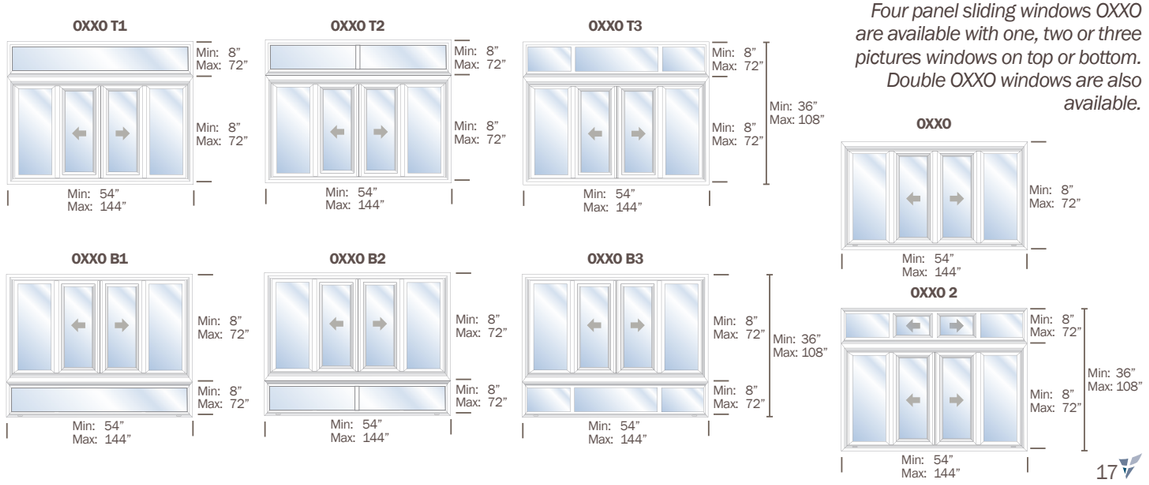
THREE PANEL SLIDING WINDOWS

All three panel Imperial sliding windows, XOX, XOO, OOX, and OXO are available with one, two or three top or bottom picture windows, as shown in the XOX combination units. Double XOX windows (XOX2) are also available.



FOUR PANEL SLIDING WINDOWS

Four panel sliding windows OXXO are available with one, two or three pictures windows on top or bottom. Double OXXO windows are also available.



IMPERIAL SINGLE HUNG WINDOWS SERIES 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, Value 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.

SINGLE HUNG WINDOWS FEATURES & BENEFITS

Easy operation
Constant force counter weight balance system for smooth effortless operation.

A tight seal
Value's 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.

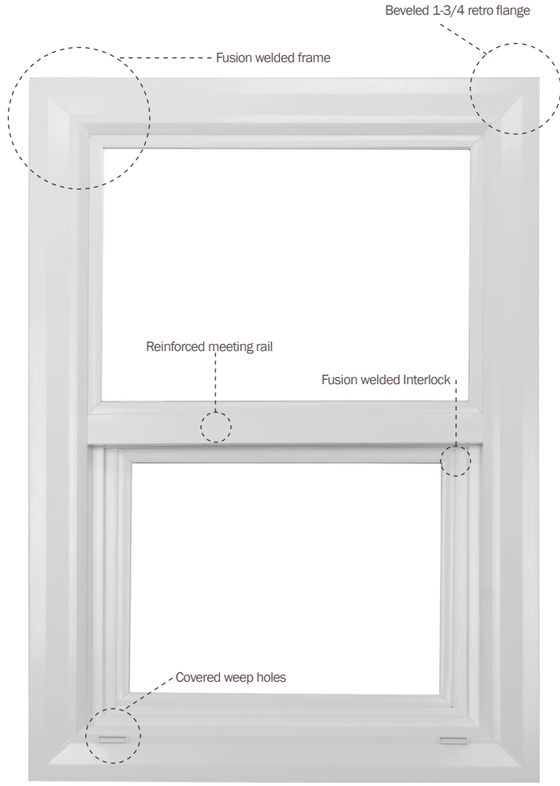
Energy Efficiency
The superior insulating properties of vinyl designed with heat reducing Multi-chambered profiles and Cardinal 366 glass Reduce Heat transfer up to 3 x that of standard single pane windows.

Standard colors

White

Almond





Imperial SH window, outside view

Options

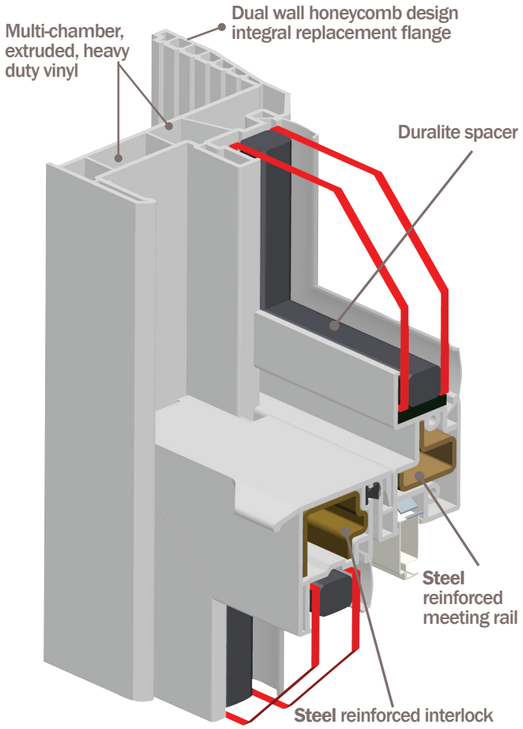
- Standard and custom sizes
- Factory stacking and mulling options in many different combinations
- AAMA and NFRC certified to meet or exceed industry structural and energy efficiency standards
- May be ordered to meet ENERGYSTAR® requirements
- Lifetime Warranty (Does not include glass breakage)

FRAME TYPES FOR REPLACEMENT & NEW CONSTRUCTION APPLICATIONS

EXCEPTIONAL CONSTRUCTION AND DESIGN

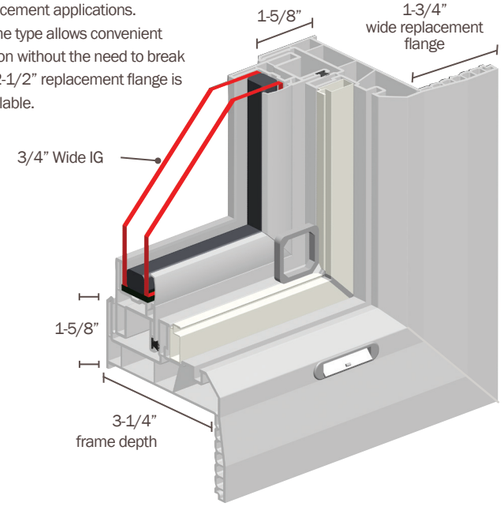
FRAME OPTIONS

- *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*



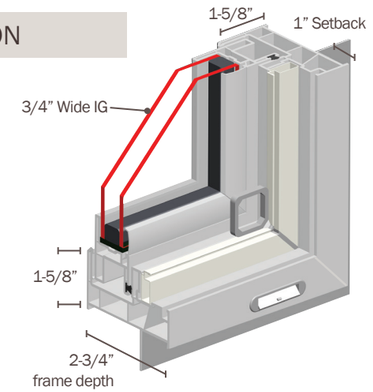
RETROFIT

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



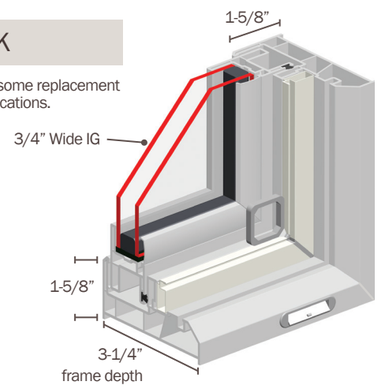
NAIL-ON

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.



THERMAL, STRUCTURAL, & SOUND PERFORMANCE

Imperial Single Hung Windows SH			Thermal Performance					Structural Performance	Sound Transmission Class
Glazing			Grids	U Factor	SHGC	VT	CR Condensation Resistance		
Dual	2 mm LoE3	2 mm Clear	None	0.28	.32	.53	CR 62	**Class LC PG-30** Size tested 46 x 82"	**STC 31** 3/4" IG [1/8" annealed exterior, 7/16" Argon, 3/16" annealed interior]
			3/4 -5/8"		.29	.47			
			>1"		.26	.42			
			Size tested 47-1/4 x 59"						

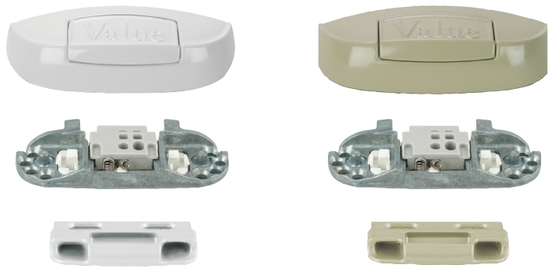
As tested with LoE3 glass, Duralite Spacer and Argon gas filled combined with clear glass.

CAREFULLY SELECTED HIGH-PERFORMANCE HARDWARE & PARTS

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*



Individual Coil

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

BALANCE COMPARISON: BLOCK & TACKLE vs. CONSTANT FORCE

▼ Block & Tackle Balance



Many windows still use an old system where a string is attached to counterweights or a spring to open the window, these strings and springs after wear and tear can snap and require extra force to move the window sash.

▲ Constant Force Balance System



Value's constant force balance coil features a nylon composite housing that allows the coil to be stretched as the window opens.

As the coil unfolds it provides a constant and even force meaning the window needs only the same resistance to lift it at any degree of opening.

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.

*How much **force** is needed to operate each system?*

SAMPLE CASE 1



SAMPLE CASE 2

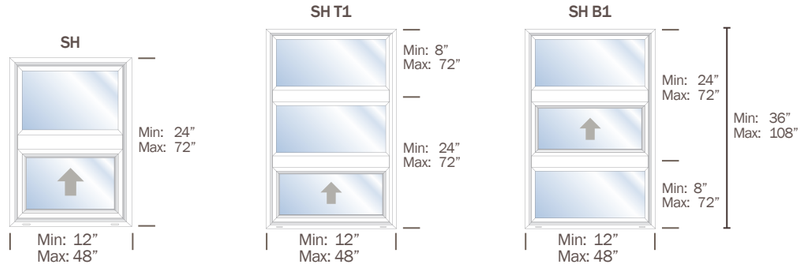


Each constant force balance coil is housed in a nylon composite housing that allows the coil to be stretched as the window opens. As the coil unfolds it provides a constant and even force meaning the window needs only the same resistance to lift it at any degree of opening.

IMPERIAL SINGLE HUNG WINDOWS SERIES IM-2102

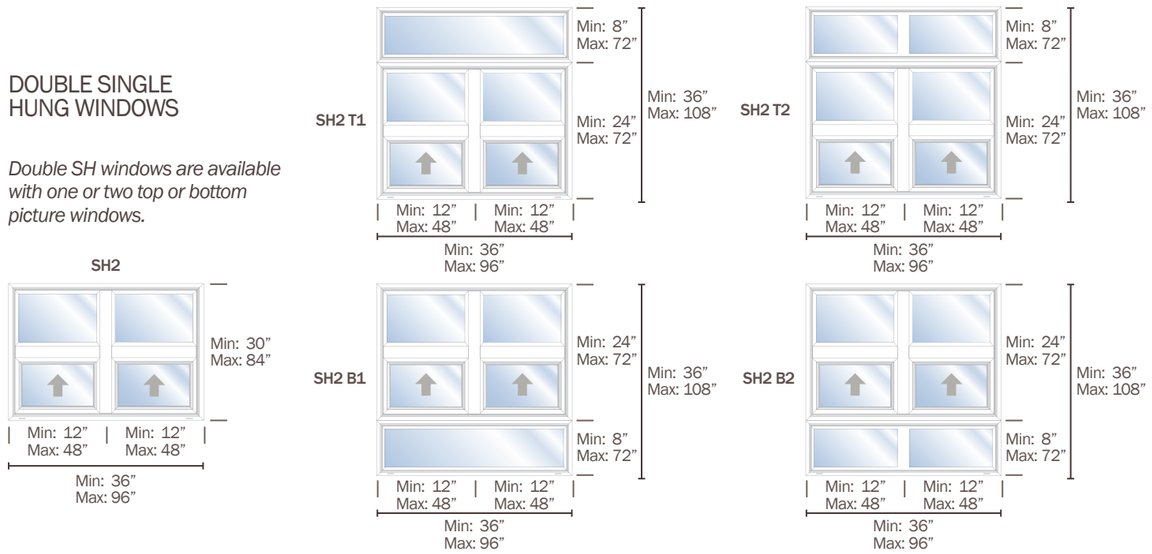
SINGLE HUNG WINDOWS STYLING

SH windows are available with one or two top or bottom picture windows.



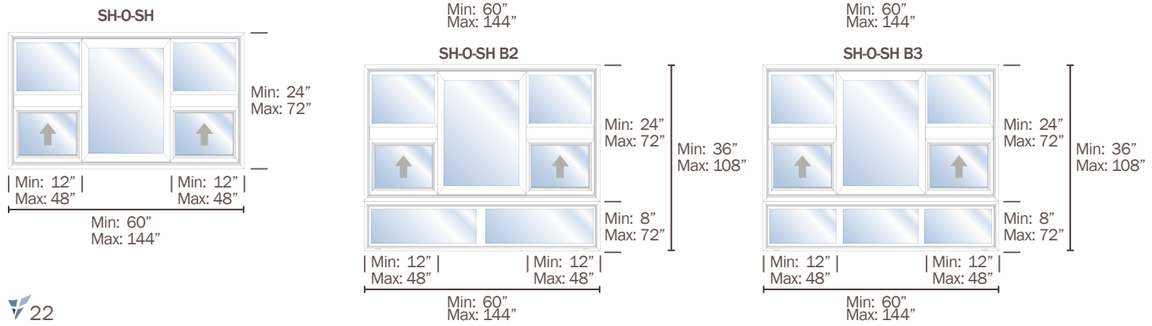
DOUBLE SINGLE HUNG WINDOWS

Double SH windows are available with one or two top or bottom picture windows.



SH-O-SH WINDOWS

Single hung-picture-single hung windows SH-O-SH are available with two or three top or bottom picture windows.



IMPERIAL PICTURE WINDOWS SERIES IM-2106

Picture windows are a simple and elegant touch to any room. Placed right they are a frame to the world outside. Value 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 Value to offer lower heat transfer than the competition. So, enjoy the view, light up your room all while keeping your home cooler and energy efficient.



PICTURE WINDOWS FEATURES & BENEFITS

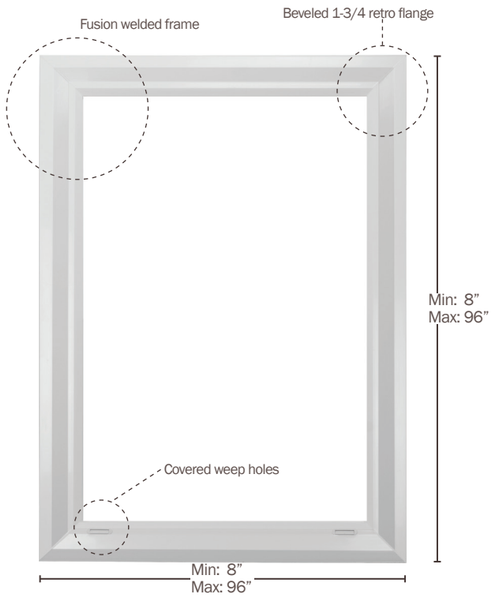
Design
Multiple grid styles and configurations are possible for whatever your application

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.

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.



Imperial PW window, outside view

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

White Almond

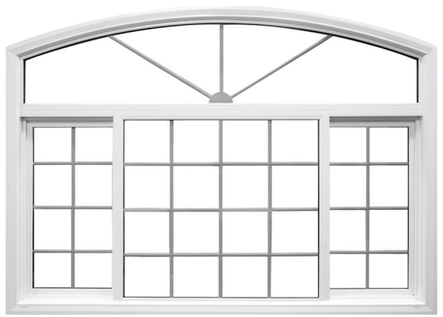
IMPERIAL PICTURE WINDOWS AVAILABLE SIZES

Window Width in Inches \ Window Height in Inches	12	24	36	48	60	72	84	96
12	12x12	12x24	12x36	12x48	12x60	12x72	12x84	12x96
24	24x12	24x24	24x36	24x48	24x60	24x72	24x84	24x96
36	36x12	36x24	36x36	36x48	36x60	36x72	36x84	36x96
48	48x12	48x24	48x36	48x48	48x60	48x72	36x84	48x96
60	60x12	60x24	60x36	60x48	60x60	60x72		
72	72x12	72x24	72x36	72x48	72x60			
84	84x12	84x24	84x36	84x48				
96	96x12	96x24	96x48					

Highlighted sizes feature Tempered Glass

SPECIALTY IMPERIAL WINDOWS: GEOMETRIC SHAPES & COMBINATION UNITS


Imperial Hexagon window, inside view


Imperial XOX window with arch top with leg, outside view

EXCEPTIONAL CONSTRUCTION AND DESIGN

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*

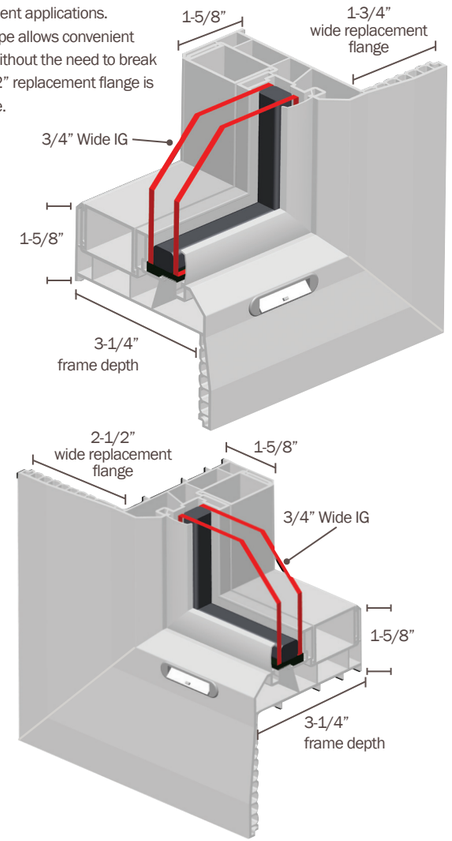
THERMAL, STRUCTURAL, & SOUND PERFORMANCE

Imperial Picture Windows PW	Thermal Performance					Structural Performance	Sound Transmission Class
Glazing	Grids	U Factor	SHGC	VT	CR Condensation Resistance		
Dual: 2 mm LoE3 / 2 mm Clear	None	0.25	.35	.58	CR 63	Class R PG-15 Size tested 72 x 60”	STC 29 3/4” IG: 1/8” annealed exterior / 7/16” Argon / 3/16” annealed interior
	3/4-5/8”		.32	.51			
	>1”		.29	.46			
	Size tested 47-1/4 x 59”						

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

RETROFIT

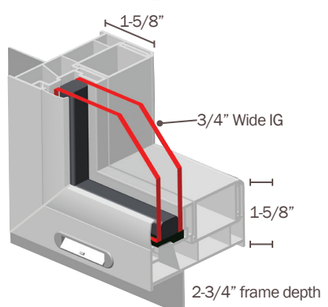
For replacement applications. This frame type allows convenient installation without the need to break stucco. 2-1/2” replacement flange is also available.



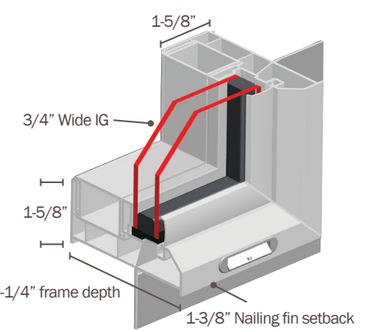
NAIL-ON

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.**

1” Nailing fin Setback

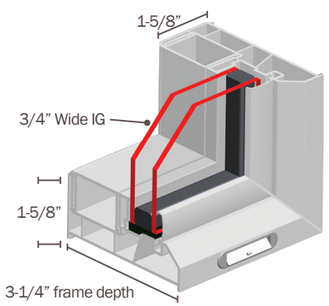


1-3/8” Nailing fin Setback



BLOCK

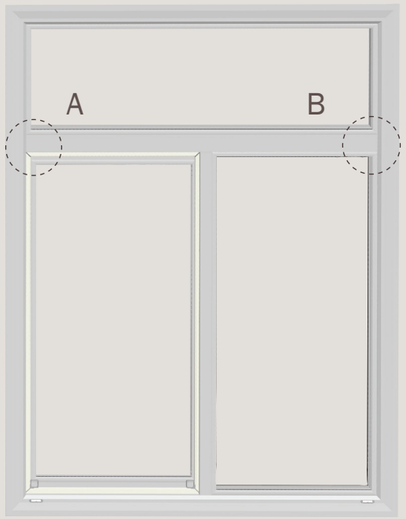
Block frame is suitable for some replacement and new construction applications.



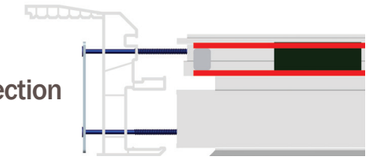
IMPERIAL SERIES COMBINATION UNIT WINDOWS

Value's 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.

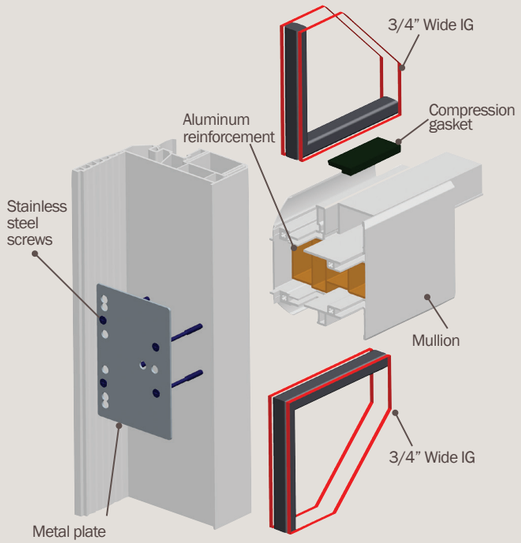
XO T1
SLIDING WINDOW WITH ONE PICTURE ON TOP



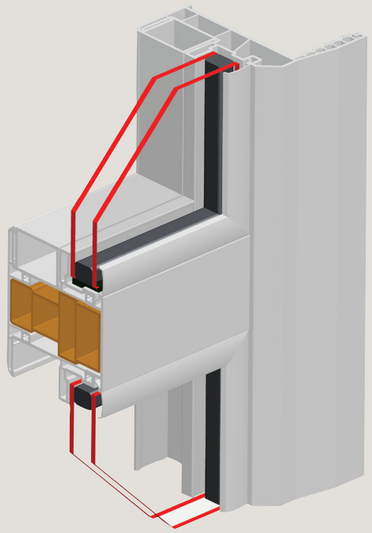
Imperial XO Profile cross Section



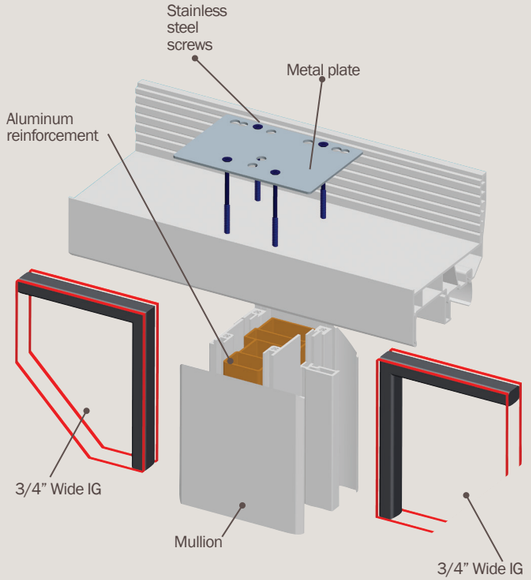
A Unassembled Horizontal Mullion



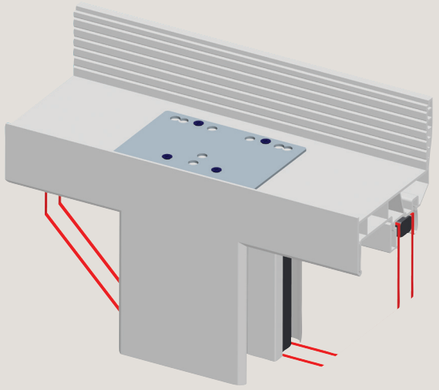
B Assembled Horizontal Mullion



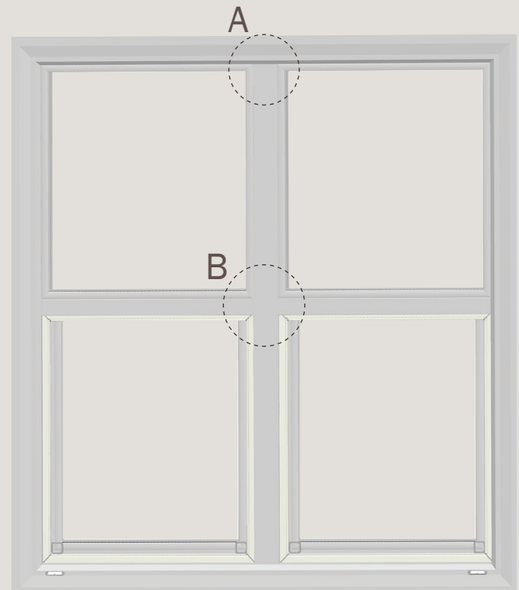
A-1 Unassembled Vertical Mullion



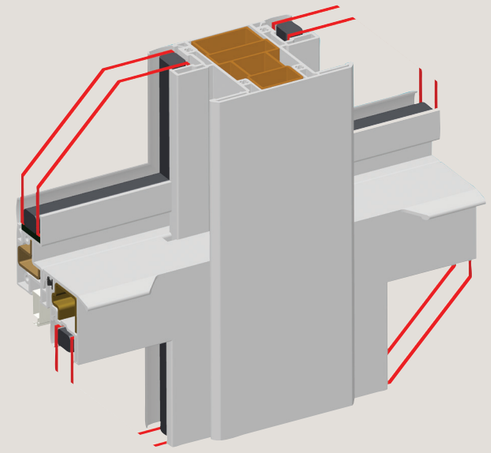
A-2 Assembled Vertical Mullion

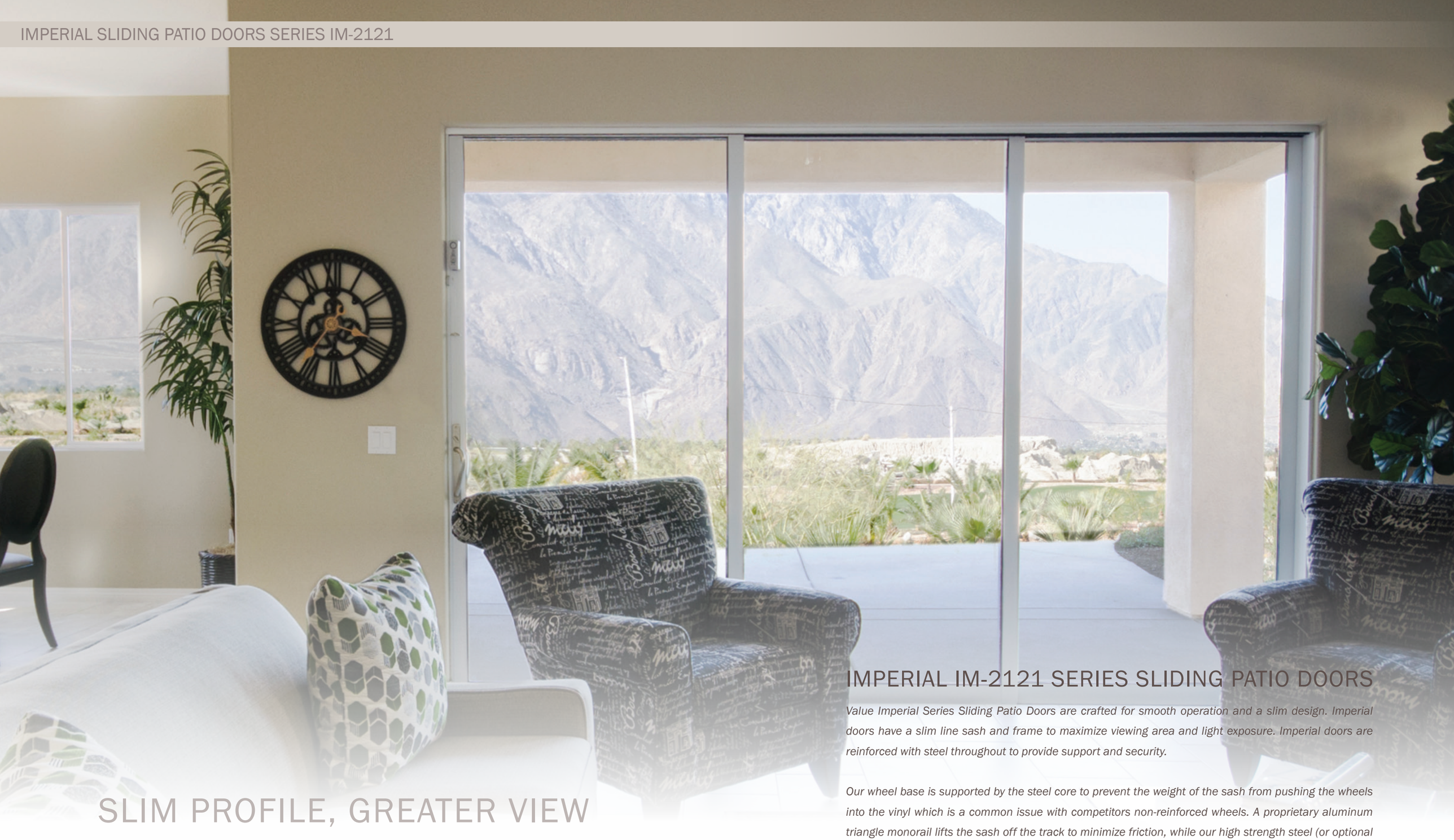


SH2
DOUBLE SINGLE HUNG WINDOWS



B Vertical Mullion Sectional View





SLIM PROFILE, GREATER VIEW

IMPERIAL IM-2121 SERIES SLIDING PATIO DOORS

Value Imperial Series Sliding Patio Doors are crafted for smooth operation and a slim design. Imperial doors have a slim line sash and frame to maximize viewing area and light exposure. Imperial doors are reinforced with steel throughout to provide support and security.

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 125 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.



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

THERMAL, STRUCTURAL, & SOUND PERFORMANCE

Imperial Sliding Patio Door PD			Thermal Performance*					Structural Performance	Sound Transmission Class
Glazing			Grids	U Factor	SHGC	VT	CR Condensation Resistance		
Dual	3 mm LoE3	3 mm Clear	None	0.29	.22	.52	CR 61	Class R-PG15 Size tested 96 x 96”	STC 31 1-1/16” IG [1/8” Tempered exterior, 3/4” air space, 3/16” Tempered interior]
			3/4 -5/8”		.20	.46			
			>1”		.18	.40			
			Size tested 47-1/4 x 59”						

*As tested with LoE3 glass, Duralite Spacer and Argon gas filled combined with clear glass.
**Class LC PG30 is available upon Company approval and necessary modification.

Options

- Flat and sculptured grids in a variety of patterns
- 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

White

Almond

IMPERIAL SLIDING PATIO DOORS SERIES IM-2121

SLIDING PATIO DOORS

KEY FEATURES

- *Steel reinforced door panels*
- *Steel reinforced interlock*
- *Duralite warm edge spacer with no metal components*
- *Multi-chamber extruded vinyl*



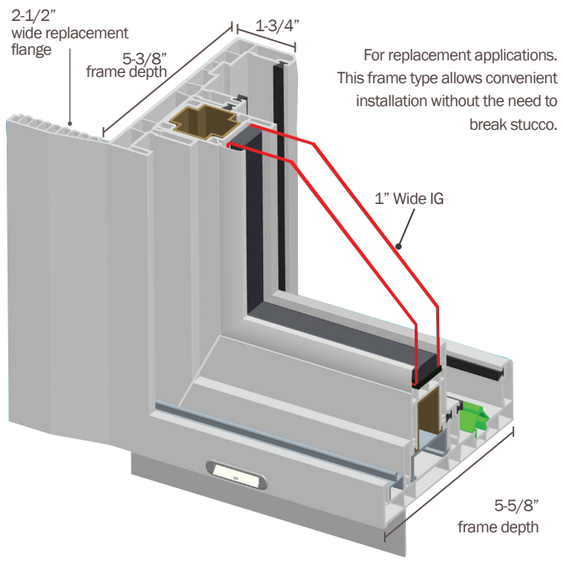
Imperial XO Sliding Patio Door outside view

SLIM PROFILE, GREATER VIEW



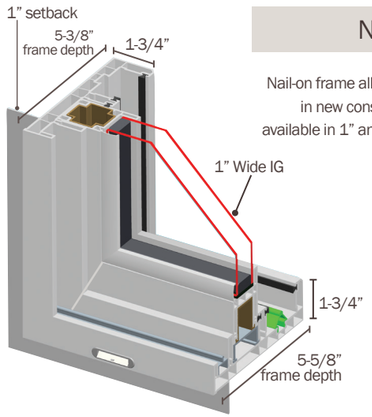
FRAME TYPES FOR REPLACEMENT & NEW CONSTRUCTION APPLICATIONS

RETROFIT



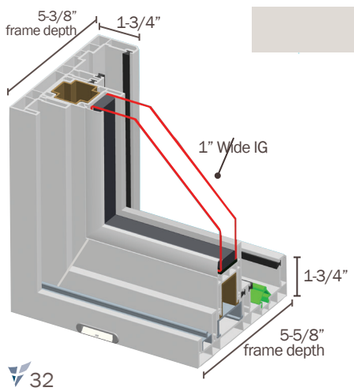
For replacement applications. This frame type allows convenient installation without the need to break stucco.

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.

Sliding Patio Door features at a glance, outside view

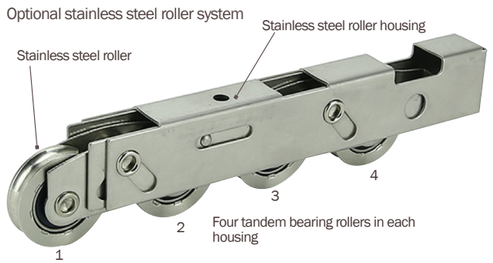
- **01** *Fusion welded frame and panels*
- **02** *Ergonomically designed handle*
- **03** *Firmly secured and reinforced interlock*
- **04** *Heavy duty extruded vinyl in frame and panel members*
- **05** *2-1/4" wide rail and stiles*
- **06** *Double weather-stripping*

Four wheel tandem roller system

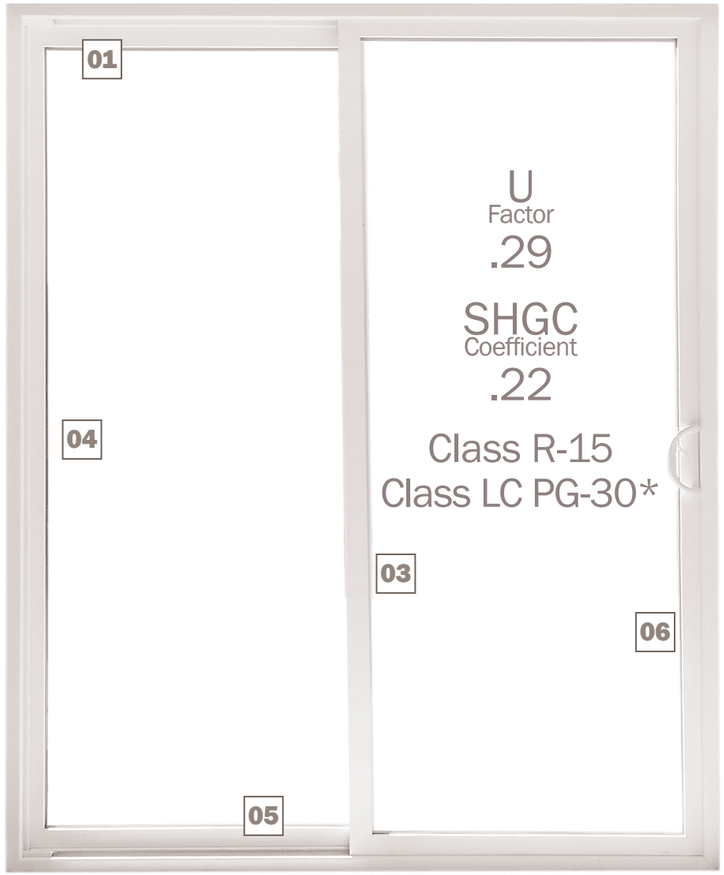
Imperial Patio Doors feature four- wheel tandem roller system in cold rolled steel housing and rollers, which provide long lasting smooth operation.

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

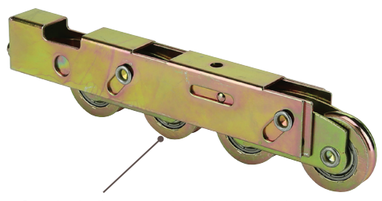


CAREFULLY SELECTED HIGH-PERFORMANCE HARDWARE & PARTS

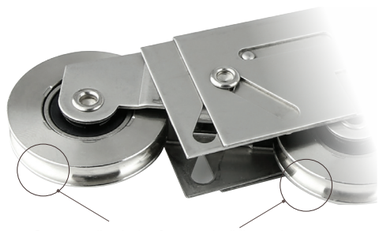


Imperial XO Sliding Patio Door inside view

*Class LC PG30 is available upon Company approval and necessary modification.



Standard roller system in cold rolled steel



Concave roller design for smooth gliding 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.

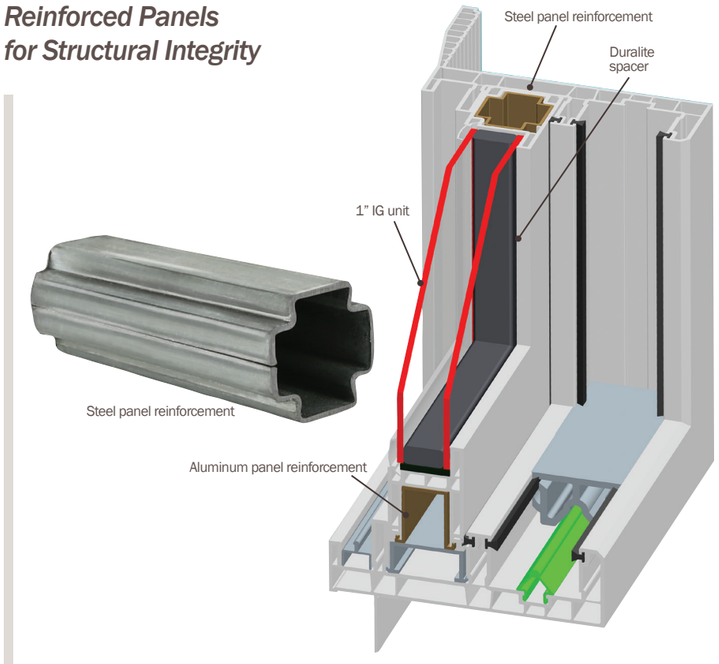


Imperial Door Handle and Locking system outside view

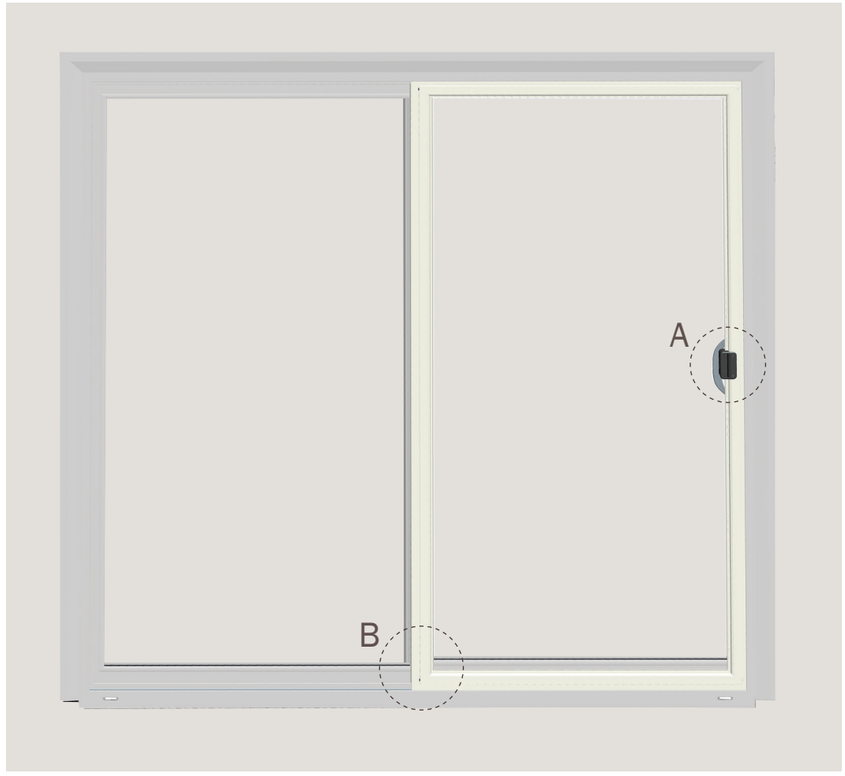


Imperial Door Handle and Locking system inside view

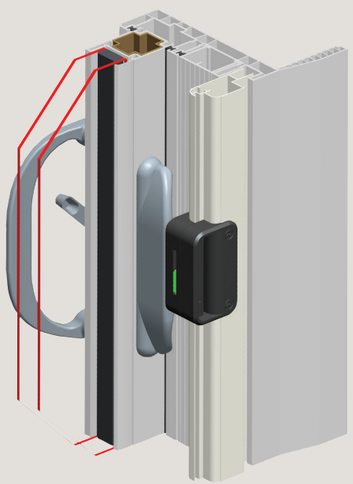
Reinforced Panels for Structural Integrity



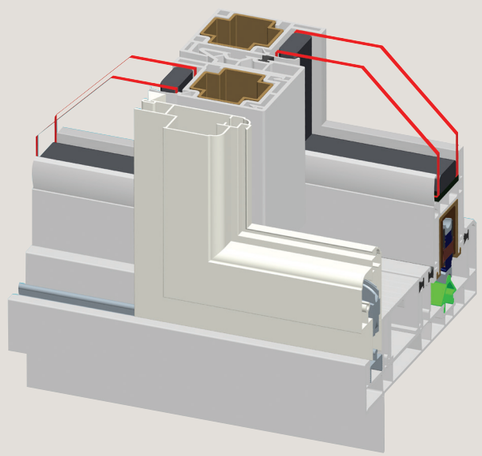
XO SLIDING PATIO DOOR



A Steel reinforced sash and lock. Low profile aluminum screen.

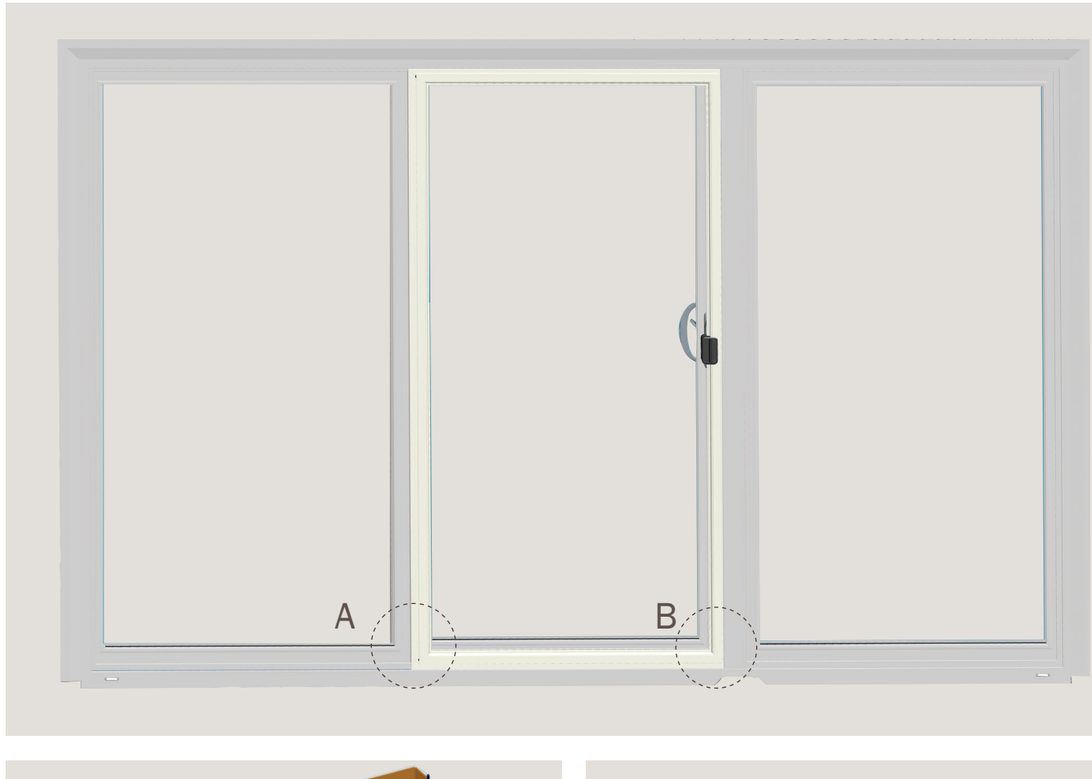


B Vertical sash cross section. Overlapping design maximizes glass and produces even sightlines.



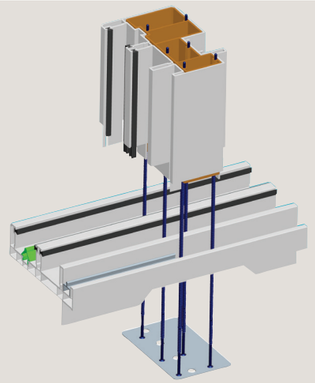
IMPERIAL SLIDING PATIO DOORS SERIES IM-2121

0XO SLIDING PATIO DOOR



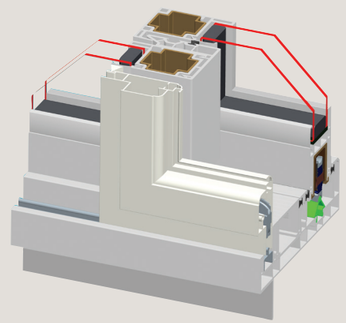
A-1

Vertical mullion for multi-panel units. Aluminum reinforced and secured with stainless steel screws through metal plate and directly into reinforcement.



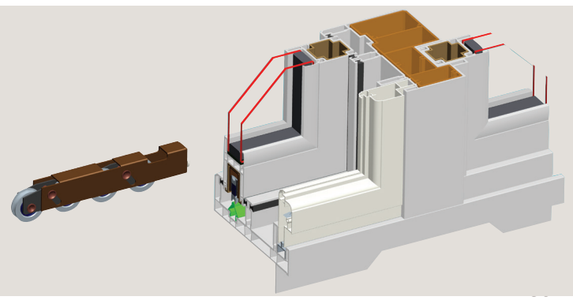
A-2

Steel reinforced sash and lock. Low profile aluminum screen.

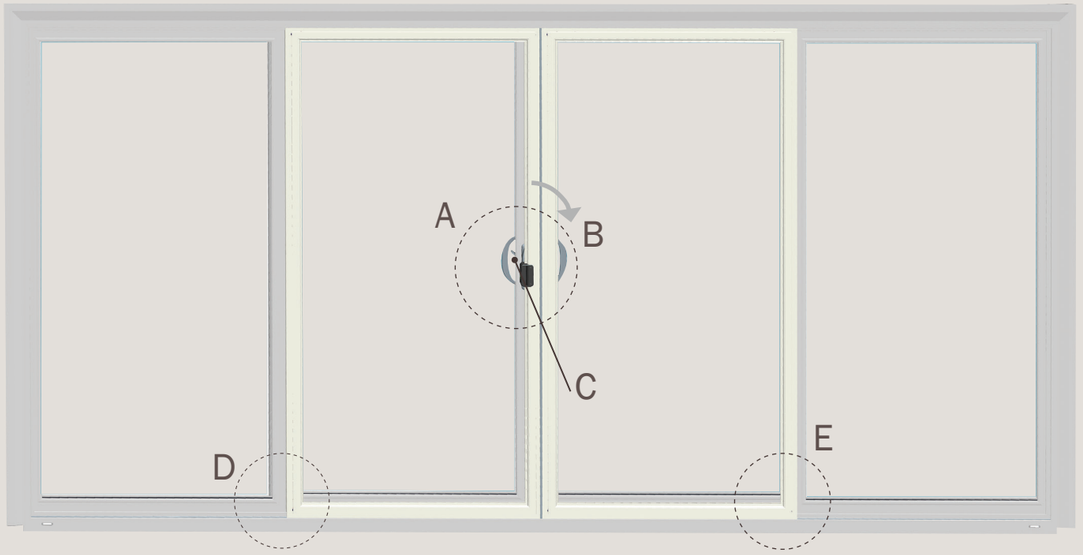


B

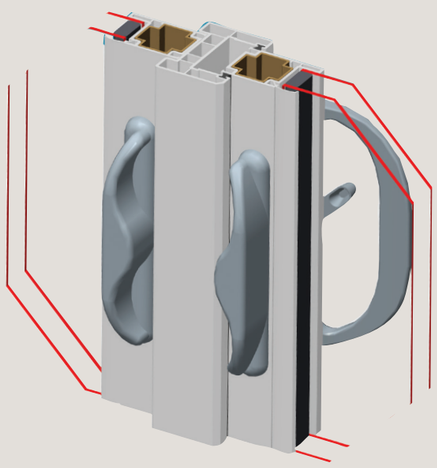
Assembled mullion cross section showing closed positions, sliding roller, and monorail track.



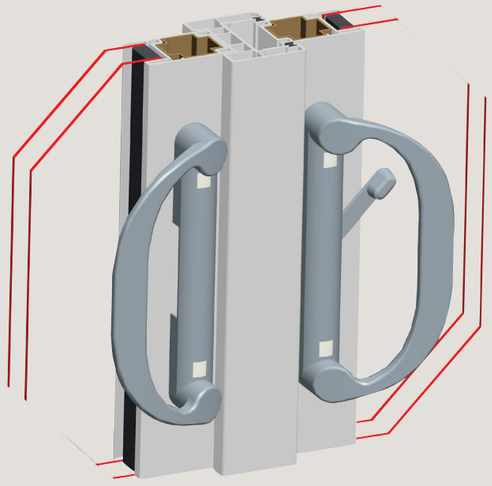
OXXO SLIDING PATIO DOOR



A Low profile ergonomic exterior handles.

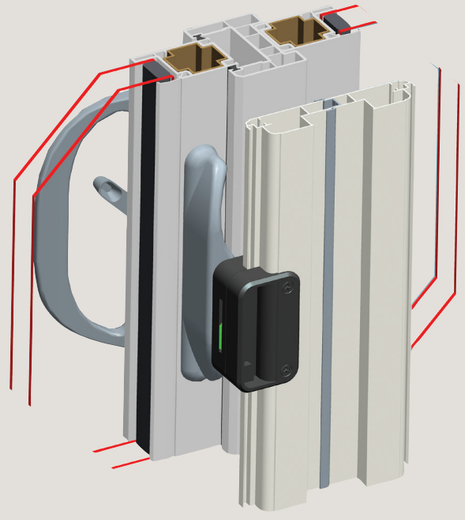


B Steel reinforced sashes, hardware, and locks. Ergonomic handles with flip lock interior view.

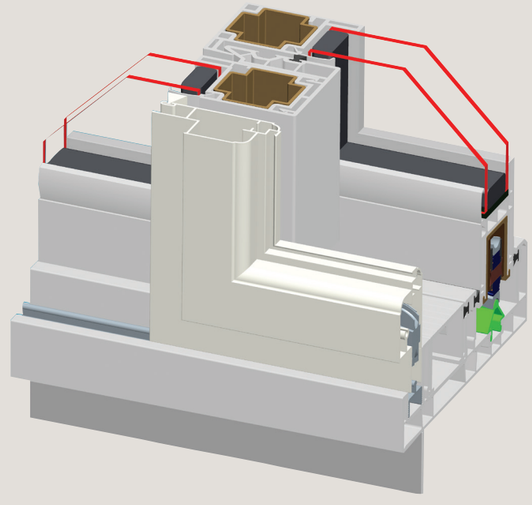


IMPERIAL SLIDING PATIO DOORS SERIES IM-2121

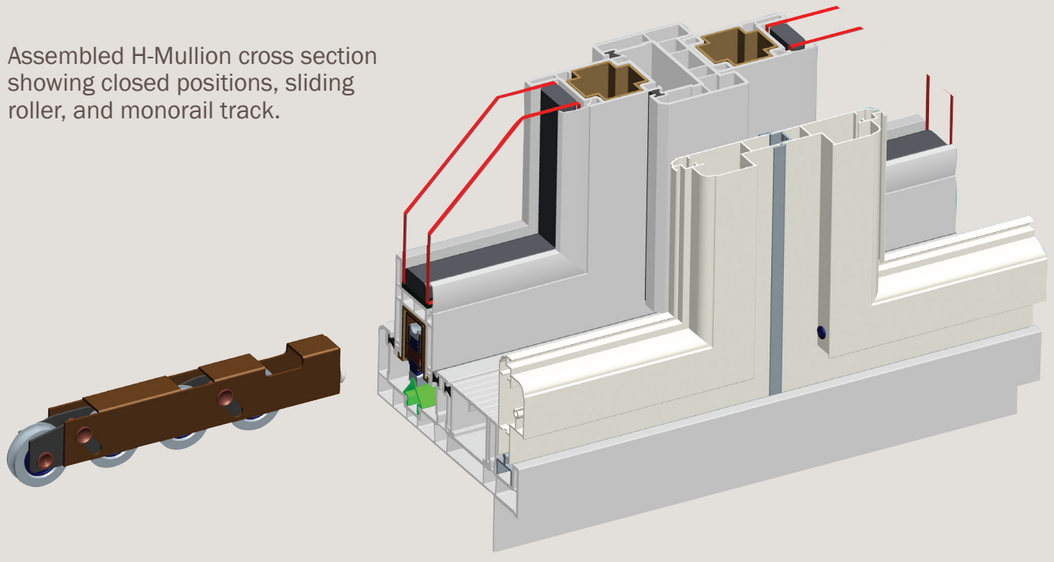
C Vertical H-mullion cross section showing multi-panel units that meet in the middle with interlocking sashes.



D Vertical sash cross section. Overlapping design maximizes glass and produces even sightlines.

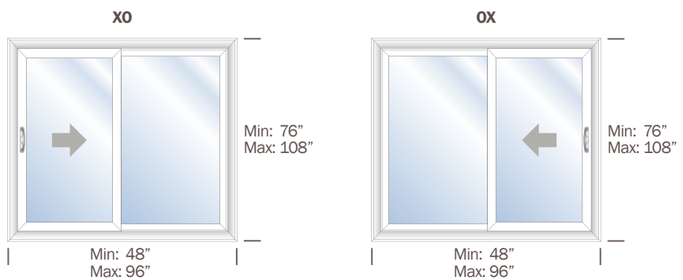


E Assembled H-Mullion cross section showing closed positions, sliding roller, and monorail track.

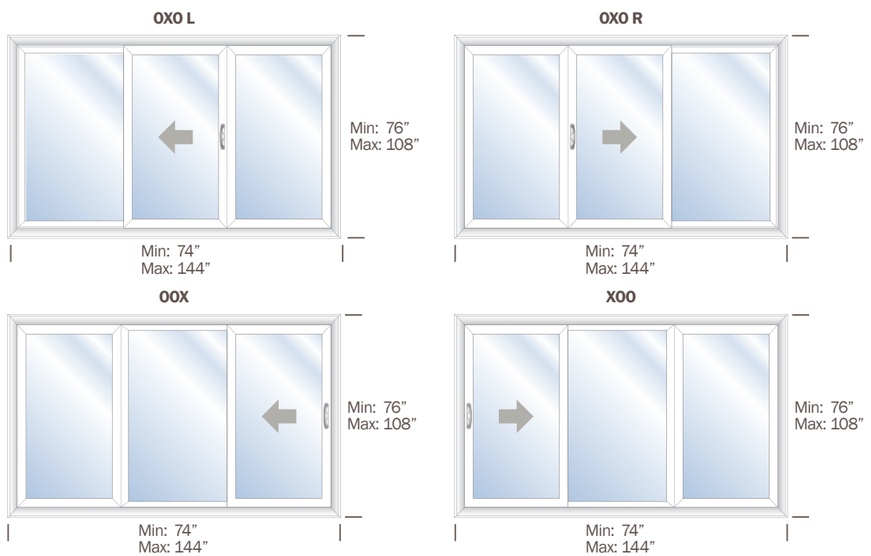


SLIDING PATIO DOORS STYLING

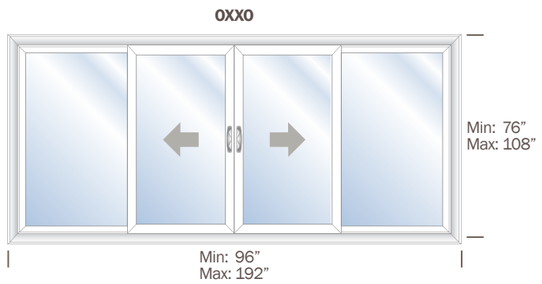
TWO PANEL SLIDING PATIO DOORS



THREE PANEL SLIDING PATIO DOORS



FOUR PANEL SLIDING PATIO DOORS

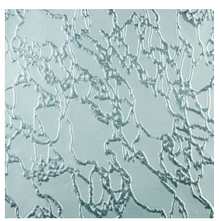


PATTERN & COLOR GLASS SELECTION

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.

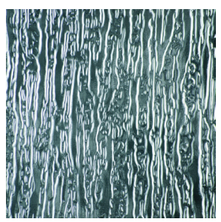

Bronze


Gray


Delta Frost


Glue Chip


Obscure

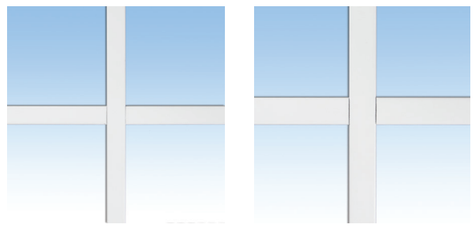

Rain

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

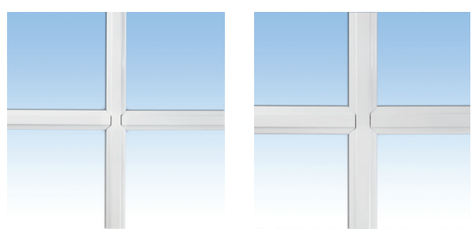
GRID OPTIONS

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.

Flat Grids


5/8” 3/4”

Sculptured Grids


5/8” 1”

Available grid patterns, Marginal, Double Prairie and Colonial

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



Imperial™ 2100 Series Vinyl Windows & Patio Doors

SLIM PROFILE, GREAT VIEW

Price Pages

Effective August, 2017

Windows

IM-2101 Horizontal Sliders

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XO Windows Egress Chart . . . . . IM - 04
XO - OX T1 or B1 . . . . . IM - 06
XO - OX T2 or B2 . . . . . IM - 08
XO2 - OX2. . . . . IM - 10
XOX, OXOL, OXOR, XOO, OOX . . . . . IM - 12
XOX, OXOL, OXOR, XOO, OOX T1 or B1 . . . . . IM - 14
XOX, OXOL, OXOR, XOO, OOX T2 or B2 . . . . . IM - 16
XOX, OXOL, OXOR, XOO, OOX T3 or B3 . . . . . IM - 18
XOX2 . . . . . IM - 20
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IM-2102 Single Hungs

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Sliding Patio Doors

Sliding Patio Doors Standard Sizes. . . . . IM - 49
Sliding Patio Doors Custom Sizes . . . . . IM - 50

Options

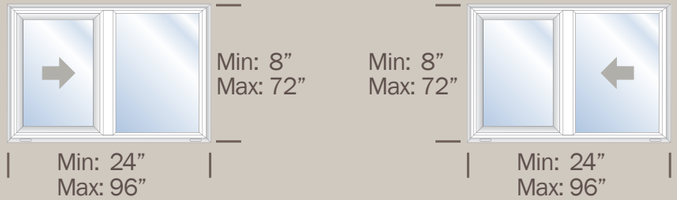
Window Grid Styles. . . . . IM - 52
Door Grid Styles . . . . . IM - 53

Configuration graphics are representation only, series specific features may vary.

All prices are estimates only, final pricing will be provided in a quote from Value's order desk.

Imperial - Series IM-2101
XO or OX
Horizontal Sliding Windows

XO



OX

For specialty glass pricing please call our Order Desk

Standard Size	Imperial XO or OX Clear over Clear				Imperial XO or OX Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
24” x 18”	63	69	66	72	69	75	72	78	18	36	6	2W/2H
24” x 24”	80	88	84	92	88	96	92	100	24	48	8	2W/2H
24” x 30”	95	105	100	110	105	115	110	120	30	60	10	2W/2H
24” x 36”	108	120	114	126	120	132	126	138	36	72	12	2W/3H
24” x 42”	119	133	126	140	133	147	140	154	42	84	14	2W/3H
24” x 48”	128	144	136	152	144	160	152	168	48	96	16	2W/3H
24” x 54”	135	153	144	162	153	171	162	180	54	108	18	2W/4H
24” x 60”	140	160	150	170	160	180	170	190	60	120	20	2W/4H
24” x 72”	156	180	168	192	180	204	192	216	72	144	24	2W/5H
30” x 18”	71	79	75	83	79	86	83	90	23	45	8	4W/2H
30” x 24”	90	100	95	105	100	110	105	115	30	60	10	4W/2H
30” x 30”	106	119	113	125	119	131	125	138	38	75	13	4W/2H
30” x 36”	120	135	128	143	135	150	143	158	45	90	15	4W/3H
30” x 42”	131	149	140	158	149	166	158	175	53	105	18	4W/3H
30” x 48”	140	160	150	170	160	180	170	190	60	120	20	4W/3H
30” x 54”	146	169	158	180	169	191	180	203	68	135	23	4W/4H
30” x 60”	150	175	163	188	175	200	188	213	75	150	25	4W/4H
30” x 72”	165	195	180	210	195	225	210	240	90	180	30	4W/5H
36” x 18”	81	90	86	95	90	99	95	104	27	54	9	4W/2H
36” x 24’’	102	114	108	120	114	126	120	132	36	72	12	4W/2H
36” x 30”	120	135	128	143	135	150	143	158	45	90	15	4W/2H
36” x 36”	135	153	144	162	153	171	162	180	54	108	18	4W/3H
36” x 42”	147	168	158	179	168	189	179	200	63	126	21	4W/3H
36” x 48”	156	180	168	192	180	204	192	216	72	144	24	4W/3H
36” x 54”	162	189	176	203	189	216	203	230	81	162	27	4W/4H
36” x 60”	165	195	180	210	195	225	210	240	90	180	30	4W/4H
36” x 72”	180	216	198	234	216	252	234	270	108	216	36	4W/5H
42” x 18”	89	100	95	105	100	110	105	116	32	63	11	4W/2H
42” x 24”	112	126	119	133	126	140	133	147	42	84	14	4W/2H
42” x 30”	131	149	140	158	149	166	158	175	53	105	18	4W/2H
42” x 36”	147	168	158	179	168	189	179	200	63	126	21	4W/3H
42” x 42”	159	184	172	196	184	208	196	221	74	147	25	4W/3H
42” x 48”	168	196	182	210	196	224	210	238	84	168	28	4W/3H
42” x 54”	173	205	189	221	205	236	221	252	95	189	32	4W/4H
42” x 60”	175	210	193	228	210	245	228	263	105	210	35	4W/4H
42” x 72”	200	242	221	263	242	284	263	305	126	252	42	4W/5H
48” x 18”	96	108	102	114	108	120	114	126	36	72	12	4W/2H
48” x 24”	120	136	128	144	136	152	144	160	48	96	16	4W/2H
48” x 30”	140	160	150	170	160	180	170	190	60	120	20	4W/2H
48” x 36”	156	180	168	192	180	204	192	216	72	144	24	4W/3H

XO



Imperial - Series IM-2101
XO or OX
Horizontal Sliding Windows

OX



For specialty glass pricing please call our Order Desk

Standard Size	Imperial XO or OX Clear over Clear				Imperial XO or OX Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
48” x 42”	168	196	182	210	196	224	210	238	84	168	28	4W/3H
48” x 48”	176	208	192	224	208	240	224	256	96	192	32	4W/3H
48” x 54”	180	216	198	234	216	252	234	270	108	216	36	4W/4H
48” x 60”	190	230	210	250	230	270	250	290	120	240	40	4W/4H
48” x 72”	216	264	240	288	264	312	288	336	144	288	48	4W/5H
54” x 18”	101	115	108	122	115	128	122	135	41	81	14	6W/2H
54” x 24”	126	144	135	153	144	162	153	171	54	108	18	6W/2H
54” x 30”	146	169	158	180	169	191	180	203	68	135	23	6W/2H
54” x 36”	162	189	176	203	189	216	203	230	81	162	27	6W/3H
54” x 42”	173	205	189	221	205	236	221	252	95	189	32	6W/3H
54” x 48”	180	216	198	234	216	252	234	270	108	216	36	6W/3H
54” x 54”	192	233	213	253	233	273	253	294	122	243	41	6W/4H
54” x 60”	203	248	225	270	248	293	270	315	135	270	45	6W/4H
54” x 72”	230	284	257	311	284	338	311	365	162	324	54	6W/5H
60” x 18”	105	120	113	128	120	135	128	143	45	90	15	6W/2H
60” x 24”	130	150	140	160	150	170	160	180	60	120	20	6W/2H
60” x 30”	150	175	163	188	175	200	188	213	75	150	25	6W/2H
60” x 36”	165	195	180	210	195	225	210	240	90	180	30	6W/3H
60” x 42”	175	210	193	228	210	245	228	263	105	210	35	6W/3H
60” x 48”	190	230	210	250	230	270	250	290	120	240	40	6W/3H
60” x 54”	203	248	225	270	248	293	270	315	135	270	45	6W/4H
60” x 60”	213	263	238	288	263	313	288	338	150	300	50	6W/4H
60” x 72”	240	300	270	330	300	360	330	390	180	360	60	6W/5H
72” x 18”	117	135	126	144	135	153	144	162	54	108	18	6W/2H
72” x 24”	144	168	156	180	168	192	180	204	72	144	24	6W/2H
72” x 30”	165	195	180	210	195	225	210	240	90	180	30	6W/2H
72” x 36”	180	216	198	234	216	252	234	270	108	216	36	6W/3H
72” x 42”	200	242	221	263	242	284	263	305	126	252	42	6W/3H
72” x 48”	216	264	240	288	264	312	288	336	144	288	48	6W/3H
72” x 54”	230	284	257	311	284	338	311	365	162	324	54	6W/4H
72” x 60”	240	300	270	330	300	360	330	390	180	360	60	6W/4H
72” x 72”	288	360	324	396	360	432	396	468	216	432	72	6W/5H
84” x 18”	126	147	137	158	147	168	158	179	63	126	21	8W/2H
84” x 24”	154	182	168	196	182	210	196	224	84	168	28	8W/2H
84” x 30”	175	210	193	228	210	245	228	263	105	210	35	8W/2H
84” x 36”	200	242	221	263	242	284	263	305	126	252	42	8W/3H
84” x 42”	221	270	245	294	270	319	294	343	147	294	49	8W/3H
84” x 48”	238	294	266	322	294	350	322	378	168	336	56	8W/3H
84” x 54”	252	315	284	347	315	378	347	410	189	378	63	8W/4H
84” x 60”	280	350	315	385	350	420	385	455	210	420	70	8W/4H
84” x 72”	336	420	378	462	420	504	462	546	252	504	84	8W/5H
96” x 18”	244	268	256	280	268	292	280	304	72	144	24	10W/2H
96” x 24”	276	308	292	324	308	340	324	356	96	192	32	10W/2H
96” x 30”	300	340	320	360	340	380	360	400	120	240	40	10W/2H
96” x 36”	328	376	352	400	376	424	400	448	144	288	48	10W/3H
96” x 42”	352	408	380	436	408	464	436	492	168	336	56	10W/3H
96” x 48”	372	436	404	468	436	500	468	532	192	384	64	10W/3H
96” x 54”	388	460	424	496	460	532	496	568	216	432	72	10W/4H
96” x 60”	420	500	460	540	500	580	540	620	240	480	80	10W/4H
96” x 72”	484	580	532	628	580	676	628	724	288	576	96	10W/5H

IMPERIAL SERIES IM-2101 SLIDING WINDOWS XO WINDOWS EGRESS CHART SASH IN

XO WINDOWS EGRESS CHART SASH IN

Height (Inches) — MIN Height 28”

Width (Inches)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58
24	37	53	69	85	100	116	132	148	163	179	195	211	226	242	258	274	289	305	321	337	352	368	384	400	415	431
26	42	60	78	95	113	131	149	166	184	202	220	237	255	273	291	308	326	344	362	379	397	415	433	450	468	486
28	47	67	86	106	126	146	165	185	205	225	244	264	284	304	323	343	363	383	402	422	442	462	481	501	521	541
30	52	73	95	117	139	160	182	204	226	247	269	291	313	334	356	378	400	421	443	465	487	508	530	552	574	595
32	56	80	104	128	151	175	199	223	246	270	294	318	341	365	389	413	436	460	484	508	531	555	579	603	626	650
34	61	87	113	138	164	190	216	241	267	293	319	344	370	396	422	447	473	499	525	550	576	602	628	653	679	705
36	66	94	121	149	177	205	232	260	288	316	343	371	399	427	454	482	510	538	565	593	621	649	676	704	732	760
38	71	100	130	160	190	219	249	279	309	338	368	398	428	457	487	517	547	576	606	636	666	695	725	755	785	814
40	75	107	139	171	202	234	266	298	329	361	393	425	456	488	520	552	583	615	647	679	710	742	774	806	837	869
42	80	114	148	181	215	249	283	316	350	384	418	451	485	519	553	586	620	654	688	721	755	789	823	856	890	924
44	85	121	156	192	228	264	299	335	371	407	442	478	514	550	585	621	657	693	728	764	800	836	871	907	943	979
46	90	127	165	203	241	278	316	354	392	429	467	505	543	580	618	656	694	731	769	807	845	882	920	958	996	1033
48	94	134	174	214	253	293	333	373	412	452	492	532	571	611	651	691	730	770	810	850	889	929	969	1009	1048	1088
MIN Width 50” 50	99	141	183	224	266	308	350	391	433	475	517	558	600	642	684	725	767	809	851	892	934	976	1018	1059	1101	1143
52	104	148	191	235	279	323	366	410	454	498	541	585	629	673	716	760	804	848	891	935	979	1023	1066	1110	1154	1198
54	109	154	200	246	292	337	383	429	475	520	566	612	658	703	749	795	841	886	932	978	1024	1069	1115	1161	1207	1252
56	113	161	209	257	304	352	400	448	495	543	591	639	686	734	782	830	877	925	973	1021	1068	1116	1164	1212	1259	1307
58	118	168	218	267	317	367	417	466	516	566	616	665	715	765	815	864	914	964	1014	1063	1113	1163	1213	1262	1312	1362
60	123	175	226	278	330	382	433	485	537	589	640	692	744	796	847	899	951	1003	1054	1106	1158	1210	1261	1313	1365	1417
62	128	181	235	289	343	396	450	504	558	611	665	719	773	826	880	934	988	1041	1095	1149	1203	1256	1310	1364	1418	1471
64	132	188	244	300	355	411	467	523	578	634	690	746	801	857	913	969	1024	1080	1136	1192	1247	1303	1359	1415	1470	1526
66	137	195	253	310	368	426	484	541	599	657	715	772	830	888	946	1003	1061	1119	1177	1234	1292	1350	1408	1465	1523	1581
68	142	202	261	321	381	441	500	560	620	680	739	799	859	919	978	1038	1098	1158	1217	1277	1337	1397	1456	1516	1576	1636
70	147	208	270	332	394	455	517	579	641	702	764	826	888	949	1011	1073	1135	1196	1258	1320	1382	1443	1505	1567	1629	1690
72	151	215	279	343	406	470	534	598	661	725	789	853	916	980	1044	1108	1171	1235	1299	1363	1426	1490	1554	1618	1681	1745
74	156	222	288	353	419	485	551	616	682	748	814	879	945	1011	1077	1142	1208	1274	1340	1405	1471	1537	1603	1668	1734	1800
76	161	229	296	364	432	500	567	635	703	771	838	906	974	1042	1109	1177	1245	1313	1380	1448	1516	1584	1651	1719	1787	1855
78	166	235	305	375	445	514	584	654	724	793	863	933	1003	1072	1142	1212	1282	1351	1421	1491	1561	1630	1700	1770	1840	1909
80	170	242	314	386	457	529	601	673	744	816	888	960	1031	1103	1175	1247	1318	1390	1462	1534	1605	1677	1749	1821	1892	1964
82	175	249	323	396	470	544	618	691	765	839	913	986	1060	1134	1208	1281	1355	1429	1503	1576	1650	1724	1798	1871	1945	2019
84	180	256	331	407	483	559	634	710	786	862	937	1013	1089	1165	1240	1316	1392	1468	1543	1619	1695	1771	1846	1922	1998	2074

Highlighted sizes feature meet Egress

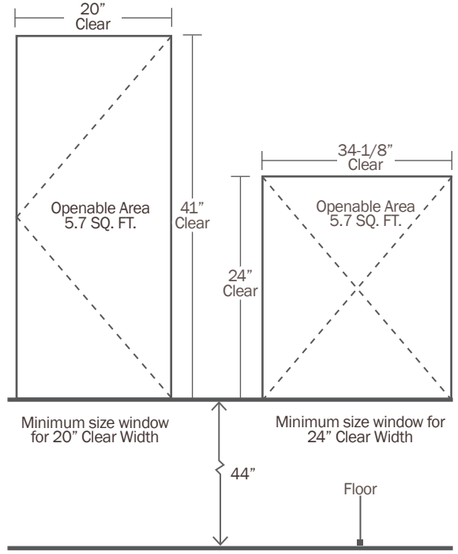
XO WINDOWS EGRESS CHART SASH IN

Height (Inches)

Width (Inches)	60	62	64	66	68	70	72	74	76	78	80	82
24	447	463	478	494	510	526	541	557	573	589	604	620
26	504	521	539	557	575	592	610	628	646	663	681	699
28	560	580	600	620	639	659	679	699	718	738	758	778
30	617	639	661	682	704	726	748	769	791	813	835	856
32	674	698	721	745	769	793	816	840	864	888	911	935
34	731	756	782	808	834	859	885	911	937	962	988	1014
36	787	815	843	871	898	926	954	982	1009	1037	1065	1093
38	844	874	904	933	963	993	1023	1052	1082	1112	1142	1171
40	901	933	964	996	1028	1060	1091	1123	1155	1187	1218	1250
42	958	991	1025	1059	1093	1126	1160	1194	1228	1261	1295	1329
44	1014	1050	1086	1122	1157	1193	1229	1265	1300	1336	1372	1408
46	1071	1109	1147	1184	1222	1260	1298	1335	1373	1411	1449	1486
48	1128	1168	1207	1247	1287	1327	1366	1406	1446	1486	1525	1565
MIN Width 50” 50	1185	1226	1268	1310	1352	1393	1435	1477	1519	1560	1602	1644
52	1241	1285	1329	1373	1416	1460	1504	1548	1591	1635	1679	1723
54	1298	1344	1390	1435	1481	1527	1573	1618	1664	1710	1756	1801
56	1355	1403	1450	1498	1546	1594	1641	1689	1737	1785	1832	1880
58	1412	1461	1511	1561	1611	1660	1710	1760	1810	1859	1909	1959
60	1468	1520	1572	1624	1675	1727	1779	1831	1882	1934	1986	2038
62	1525	1579	1633	1686	1740	1794	1848	1901	1955	2009	2063	2116
64	1582	1638	1693	1749	1805	1861	1916	1972	2028	2084	2139	2195
66	1639	1696	1754	1812	1870	1927	1985	2043	2101	2158	2216	2274
68	1695	1755	1815	1875	1934	1994	2054	2114	2173	2233	2293	2353
70	1752	1814	1876	1937	1999	2061	2123	2184	2246	2308	2370	2431
72	1809	1873	1936	2000	2064	2128	2191	2255	2319	2383	2446	2510
74	1866	1931	1997	2063	2129	2194	2260	2326	2392	2457	2523	2589
76	1922	1990	2058	2126	2193	2261	2329	2397	2464	2532	2600	2668
78	1979	2049	2119	2188	2258	2328	2398	2467	2537	2607	2677	2746
80	2036	2108	2179	2251	2323	2395	2466	2538	2610	2682	2753	2825
82	2093	2166	2240	2314	2388	2461	2535	2609	2683	2756	2830	2904
84	2149	2225	2301	2377	2452	2528	2604	2680	2755	2831	2907	2983

Highlighted sizes meet Egress

Emergency Egress Windows Residential Dwellings



Minimum Sized Rescue or Egress Windows from Sleeping Room

Basement, habitable attics and every sleeping room shall have at least one operable window or door approved for emergency escape or rescue that shall open directly into a public street, public alley, yard or exit court. The emergency door or window shall be operable from the inside to provide a full, clear opening without the use of separate tools.

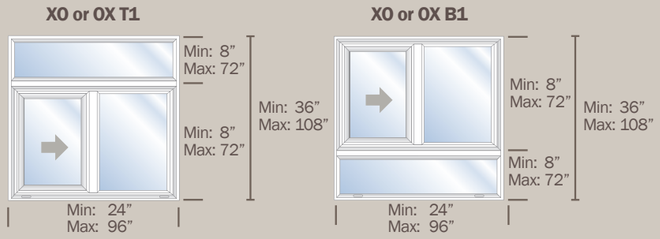
The intent of this section is that windows be available so that rescue can be effected from the exterior or, alternatively, by which one may escape from that window to the exterior of the building without having to travel through the building itself.

- Escape or rescue windows shall have a minimum net clear openable area of 5.7 square feet. (Except at grade floor, shall have a minimum net clear opening of 5 square feet).
- The minimum net clear openable height dimension shall be 24 inches.
- The minimum net clear openable width dimension shall be 20 inches.
- Finished sill height shall not be more than 44 inches above the floor.

Value

Imperial - Series IM-2101

XO OX T1 or B1
Horizontal Sliding Windows

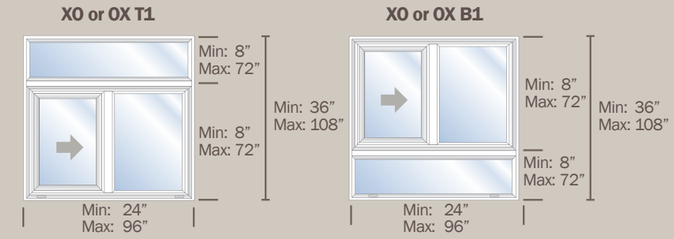


For specialty glass pricing please call our Order Desk

Standard Size	Imperial XO or OX T1, B1 Clear over Clear				Imperial XO or OX T1, B1 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
24" x 36"	120	132	126	138	132	144	138	150	36	72	12	2W/3H
24" x 42"	133	147	140	154	147	161	154	168	42	84	14	2W/3H
24" x 48"	144	160	152	168	160	176	168	184	48	96	16	2W/4H
24" x 54"	153	171	162	180	171	189	180	198	54	108	18	2W/4H
24" x 60"	160	180	170	190	180	200	190	210	60	120	20	2W/4H
24" x 72"	180	204	192	216	204	228	216	240	72	144	24	2W/6H
24" x 84"	196	224	210	238	224	252	238	266	84	168	28	2W/7H
24" x 96"	208	240	224	256	240	272	256	288	96	192	32	2W/8H
24" x 108"	234	270	252	288	270	306	288	324	108	216	36	2W/8H
30" x 36"	143	158	150	165	158	173	165	180	45	90	15	4W/3H
30" x 42"	158	175	166	184	175	193	184	201	53	105	18	4W/3H
30" x 48"	170	190	180	200	190	210	200	220	60	120	20	4W/4H
30" x 54"	180	203	191	214	203	225	214	236	68	135	23	4W/4H
30" x 60"	188	213	200	225	213	238	225	250	75	150	25	4W/4H
30" x 72"	210	240	225	255	240	270	255	285	90	180	30	4W/6H
30" x 84"	228	263	245	280	263	298	280	315	105	210	35	4W/7H
30" x 96"	240	280	260	300	280	320	300	340	120	240	40	4W/8H
30" x 108"	270	315	293	338	315	360	338	383	135	270	45	4W/8H
36" x 36"	162	180	171	189	180	198	189	207	54	108	18	4W/3H
36" x 42"	179	200	189	210	200	221	210	231	63	126	21	4W/3H
36" x 48"	192	216	204	228	216	240	228	252	72	144	24	4W/4H
36" x 54"	203	230	216	243	230	257	243	270	81	162	27	4W/4H
36" x 60"	210	240	225	255	240	270	255	285	90	180	30	4W/4H
36" x 72"	234	270	252	288	270	306	288	324	108	216	36	4W/6H
36" x 84"	252	294	273	315	294	336	315	357	126	252	42	4W/7H
36" x 96"	264	312	288	336	312	360	336	384	144	288	48	4W/8H
36" x 108"	297	351	324	378	351	405	378	432	162	324	54	4W/8H
42" x 36"	179	200	189	210	200	221	210	231	63	126	21	4W/3H
42" x 42"	196	221	208	233	221	245	233	257	74	147	25	4W/3H
42" x 48"	210	238	224	252	238	266	252	280	84	168	28	4W/4H
42" x 54"	221	252	236	268	252	284	268	299	95	189	32	4W/4H
42" x 60"	228	263	245	280	263	298	280	315	105	210	35	4W/4H
42" x 72"	252	294	273	315	294	336	315	357	126	252	42	4W/6H
42" x 84"	270	319	294	343	319	368	343	392	147	294	49	4W/7H
42" x 96"	280	336	308	364	336	392	364	420	168	336	56	4W/8H
42" x 108"	315	378	347	410	378	441	410	473	189	378	63	4W/8H
48" x 36"	192	216	204	228	216	240	228	252	72	144	24	4W/3H
48" x 42"	210	238	224	252	238	266	252	280	84	168	28	4W/3H
48" x 48"	224	256	240	272	256	288	272	304	96	192	32	4W/4H
48" x 54"	234	270	252	288	270	306	288	324	108	216	36	4W/4H
48" x 60"	240	280	260	300	280	320	300	340	120	240	40	4W/4H
48" x 72"	264	312	288	336	312	360	336	384	144	288	48	4W/6H
48" x 84"	280	336	308	364	336	392	364	420	168	336	56	4W/7H
48" x 96"	288	352	320	384	352	416	384	448	192	384	64	4W/8H
48" x 108"	324	396	360	432	396	468	432	504	216	432	72	4W/8H

Imperial - Series IM-2101

XO OX T1 or B1
Horizontal Sliding Windows

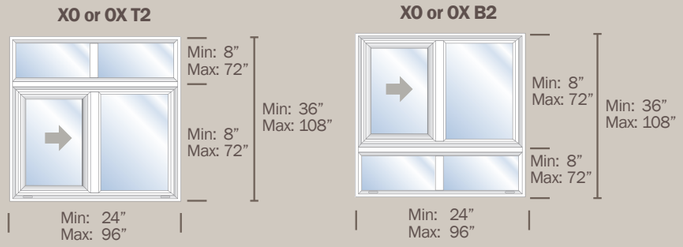


For specialty glass pricing please call our Order Desk

Standard Size	Imperial XO or OX T1, B1 Clear over Clear				Imperial XO or OX T1, B1 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54" x 36"	203	230	216	243	230	257	243	270	81	162	27	4W/3H
54" x 42"	221	252	236	268	252	284	268	299	95	189	32	4W/3H
54" x 48"	234	270	252	288	270	306	288	324	108	216	36	4W/4H
54" x 54"	243	284	263	304	284	324	304	344	122	243	41	4W/4H
54" x 60"	248	293	270	315	293	338	315	360	135	270	45	4W/4H
54" x 72"	270	324	297	351	324	378	351	405	162	324	54	4W/6H
54" x 84"	284	347	315	378	347	410	378	441	189	378	63	4W/7H
54" x 96"	324	396	360	432	396	468	432	504	216	432	72	4W/8H
54" x 108"	365	446	405	486	446	527	486	567	243	486	81	4W/8H
60" x 36"	210	240	225	255	240	270	255	285	90	180	30	6W/3H
60" x 42"	228	263	245	280	263	298	280	315	105	210	35	6W/3H
60" x 48"	240	280	260	300	280	320	300	340	120	240	40	6W/4H
60" x 54"	248	293	270	315	293	338	315	360	135	270	45	6W/4H
60" x 60"	250	300	275	325	300	350	325	375	150	300	50	6W/4H
60" x 72"	270	330	300	360	330	390	360	420	180	360	60	6W/6H
60" x 84"	315	385	350	420	385	455	420	490	210	420	70	6W/7H
60" x 96"	360	440	400	480	440	520	480	560	240	480	80	6W/8H
60" x 108"	405	495	450	540	495	585	540	630	270	540	90	6W/8H
72" x 36"	234	270	252	288	270	306	288	324	108	216	36	6W/3H
72" x 42"	252	294	273	315	294	336	315	357	126	252	42	6W/3H
72" x 48"	264	312	288	336	312	360	336	384	144	288	48	6W/4H
72" x 54"	270	324	297	351	324	378	351	405	162	324	54	6W/4H
72" x 60"	270	330	300	360	330	390	360	420	180	360	60	6W/4H
72" x 72"	324	396	360	432	396	468	432	504	216	432	72	6W/6H
72" x 84"	378	462	420	504	462	546	504	588	252	504	84	6W/7H
72" x 96"	432	528	480	576	528	624	576	672	288	576	96	6W/8H
72" x 108"	486	594	540	648	594	702	648	756	324	648	108	6W/8H
84" x 36"	252	294	273	315	294	336	315	357	126	252	42	8W/3H
84" x 42"	270	319	294	343	319	368	343	392	147	294	49	8W/3H
84" x 48"	280	336	308	364	336	392	364	420	168	336	56	8W/4H
84" x 54"	284	347	315	378	347	410	378	441	189	378	63	8W/4H
84" x 60"	315	385	350	420	385	455	420	490	210	420	70	8W/4H
84" x 72"	378	462	420	504	462	546	504	588	252	504	84	8W/6H
84" x 84"	441	539	490	588	539	637	588	686	294	588	98	8W/7H
84" x 96"	504	616	560	672	616	728	672	784	336	672	112	8W/8H
84" x 108"	567	693	630	756	693	819	756	882	378	756	126	8W/8H
96" x 36"	388	436	412	460	436	484	460	508	144	288	48	10W/3H
96" x 42"	408	464	436	492	464	520	492	548	168	336	56	10W/3H
96" x 48"	420	484	452	516	484	548	516	580	192	384	64	10W/4H
96" x 54"	424	496	460	532	496	568	532	604	216	432	72	10W/4H
96" x 60"	460	540	500	580	540	620	580	660	240	480	80	10W/4H
96" x 72"	532	628	580	676	628	724	676	772	288	576	96	10W/6H
96" x 84"	604	716	660	772	716	828	772	884	336	672	112	10W/7H
96" x 96"	676	804	740	868	804	932	868	996	384	768	128	10W/8H
96" x 108"	748	892	820	964	892	1,036	964	1,108	432	864	144	10W/8H

Imperial - Series IM-2101

XO OX T2 or B2
Horizontal Sliding Windows



For specialty glass pricing please call our Order Desk

	Imperial XO or OX T2, B2 Clear over Clear				Imperial XO or OX T2, B2 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
24" x 36"	126	138	132	144	138	150	144	156	36	72	12	2W/3H
24" x 42"	140	154	147	161	154	168	161	175	42	84	14	2W/3H
24" x 48"	152	168	160	176	168	184	176	192	48	96	16	2W/4H
24" x 54"	162	180	171	189	180	198	189	207	54	108	18	2W/4H
24" x 60"	170	190	180	200	190	210	200	220	60	120	20	2W/4H
24" x 72"	192	216	204	228	216	240	228	252	72	144	24	2W/6H
24" x 84"	210	238	224	252	238	266	252	280	84	168	28	2W/7H
24" x 96"	224	256	240	272	256	288	272	304	96	192	32	2W/8H
24" x 108"	252	288	270	306	288	324	306	342	108	216	36	2W/8H
30" x 36"	150	165	158	173	165	180	173	188	45	90	15	4W/3H
30" x 42"	166	184	175	193	184	201	193	210	53	105	18	4W/3H
30" x 48"	180	200	190	210	200	220	210	230	60	120	20	4W/4H
30" x 54"	191	214	203	225	214	236	225	248	68	135	23	4W/4H
30" x 60"	200	225	213	238	225	250	238	263	75	150	25	4W/4H
30" x 72"	225	255	240	270	255	285	270	300	90	180	30	4W/6H
30" x 84"	245	280	263	298	280	315	298	333	105	210	35	4W/7H
30" x 96"	260	300	280	320	300	340	320	360	120	240	40	4W/8H
30" x 108"	293	338	315	360	338	383	360	405	135	270	45	4W/8H
36" x 36"	171	189	180	198	189	207	198	216	54	108	18	4W/3H
36" x 42"	189	210	200	221	210	231	221	242	63	126	21	4W/3H
36" x 48"	204	228	216	240	228	252	240	264	72	144	24	4W/4H
36" x 54"	216	243	230	257	243	270	257	284	81	162	27	4W/4H
36" x 60"	225	255	240	270	255	285	270	300	90	180	30	4W/4H
36" x 72"	252	288	270	306	288	324	306	342	108	216	36	4W/6H
36" x 84"	273	315	294	336	315	357	336	378	126	252	42	4W/7H
36" x 96"	288	336	312	360	336	384	360	408	144	288	48	4W/8H
36" x 108"	324	378	351	405	378	432	405	459	162	324	54	4W/8H
42" x 36"	189	210	200	221	210	231	221	242	63	126	21	4W/3H
42" x 42"	208	233	221	245	233	257	245	270	74	147	25	4W/3H
42" x 48"	224	252	238	266	252	280	266	294	84	168	28	4W/4H
42" x 54"	236	268	252	284	268	299	284	315	95	189	32	4W/4H
42" x 60"	245	280	263	298	280	315	298	333	105	210	35	4W/4H
42" x 72"	273	315	294	336	315	357	336	378	126	252	42	4W/6H
42" x 84"	294	343	319	368	343	392	368	417	147	294	49	4W/7H
42" x 96"	308	364	336	392	364	420	392	448	168	336	56	4W/8H
42" x 108"	347	410	378	441	410	473	441	504	189	378	63	4W/8H
48" x 36"	204	228	216	240	228	252	240	264	72	144	24	4W/3H
48" x 42"	224	252	238	266	252	280	266	294	84	168	28	4W/3H
48" x 48"	240	272	256	288	272	304	288	320	96	192	32	4W/4H
48" x 54"	252	288	270	306	288	324	306	342	108	216	36	4W/4H
48" x 60"	260	300	280	320	300	340	320	360	120	240	40	4W/4H
48" x 72"	288	336	312	360	336	384	360	408	144	288	48	4W/6H
48" x 84"	308	364	336	392	364	420	392	448	168	336	56	4W/7H

Imperial - Series IM-2101

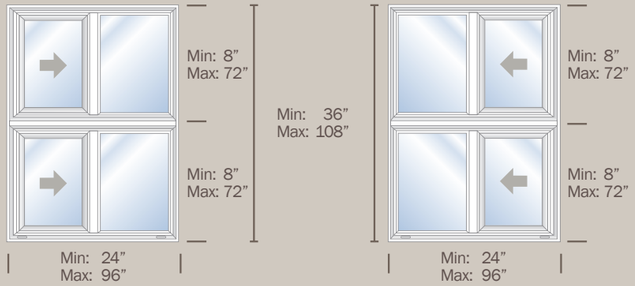
XO OX T2 or B2
Horizontal Sliding Windows



For specialty glass pricing please call our Order Desk

	Imperial XO or OX T2, B2 Clear over Clear				Imperial XO or OX T2, B2 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
48" x 96"	320	384	352	416	384	448	416	480	192	384	64	4W/8H
48" x 108"	360	432	396	468	432	504	468	540	216	432	72	4W/8H
54" x 36"	216	243	230	257	243	270	257	284	81	162	27	4W/3H
54" x 42"	236	268	252	284	268	299	284	315	95	189	32	4W/3H
54" x 48"	252	288	270	306	288	324	306	342	108	216	36	4W/4H
54" x 54"	263	304	284	324	304	344	324	365	122	243	41	4W/4H
54" x 60"	270	315	293	338	315	360	338	383	135	270	45	4W/4H
54" x 72"	297	351	324	378	351	405	378	432	162	324	54	4W/6H
54" x 84"	315	378	347	410	378	441	410	473	189	378	63	4W/7H
54" x 96"	360	432	396	468	432	504	468	540	216	432	72	4W/8H
54" x 108"	405	486	446	527	486	567	527	608	243	486	81	4W/8H
60" x 36"	225	255	240	270	255	285	270	300	90	180	30	6W/3H
60" x 42"	245	280	263	298	280	315	298	333	105	210	35	6W/3H
60" x 48"	260	300	280	320	300	340	320	360	120	240	40	6W/4H
60" x 54"	270	315	293	338	315	360	338	383	135	270	45	6W/4H
60" x 60"	275	325	300	350	325	375	350	400	150	300	50	6W/4H
60" x 72"	300	360	330	390	360	420	390	450	180	360	60	6W/6H
60" x 84"	350	420	385	455	420	490	455	525	210	420	70	6W/7H
60" x 96"	400	480	440	520	480	560	520	600	240	480	80	6W/8H
60" x 108"	450	540	495	585	540	630	585	675	270	540	90	6W/8H
72" x 36"	252	288	270	306	288	324	306	342	108	216	36	6W/3H
72" x 42"	273	315	294	336	315	357	336	378	126	252	42	6W/3H
72" x 48"	288	336	312	360	336	384	360	408	144	288	48	6W/4H
72" x 54"	297	351	324	378	351	405	378	432	162	324	54	6W/4H
72" x 60"	300	360	330	390	360	420	390	450	180	360	60	6W/4H
72" x 72"	360	432	396	468	432	504	468	540	216	432	72	6W/6H
72" x 84"	420	504	462	546	504	588	546	630	252	504	84	6W/7H
72" x 96"	480	576	528	624	576	672	624	720	288	576	96	6W/8H
72" x 108"	540	648	594	702	648	756	702	810	324	648	108	6W/8H
84" x 36"	273	315	294	336	315	357	336	378	126	252	42	8W/3H
84" x 42"	294	343	319	368	343	392	368	417	147	294	49	8W/3H
84" x 48"	308	364	336	392	364	420	392	448	168	336	56	8W/4H
84" x 54"	315	378	347	410	378	441	410	473	189	378	63	8W/4H
84" x 60"	350	420	385	455	420	490	455	525	210	420	70	8W/4H
84" x 72"	420	504	462	546	504	588	546	630	252	504	84	8W/6H
84" x 84"	490	588	539	637	588	686	637	735	294	588	98	8W/7H
84" x 96"	560	672	616	728	672	784	728	840	336	672	112	8W/8H
84" x 108"	630	756	693	819	756	882	819	945	378	756	126	8W/8H
96" x 36"	412	460	436	484	460	508	484	532	144	288	48	10W/3H
96" x 42"	436	492	464	520	492	548	520	576	168	336	56	10W/3H
96" x 48"	452	516	484	548	516	580	548	612	192	384	64	10W/4H
96" x 54"	460	532	496	568	532	604	568	640	216	432	72	10W/4H
96" x 60"	500	580	540	620	580	660	620	700	240	480	80	10W/4H
96" x 72"	580	676	628	724	676	772	724	820	288	576	96	10W/6H
96" x 84"	660	772	716	828	772	884	828	940	336	672	112	10W/7H
96" x 96"	740	868	804	932	868	996	932	1,060	384	768	128	10W/8H
96" x 108"	820	964	892	1,036	964	1,108	1,036	1,180	432	864	144	10W/8H

Imperial - Series IM-2101

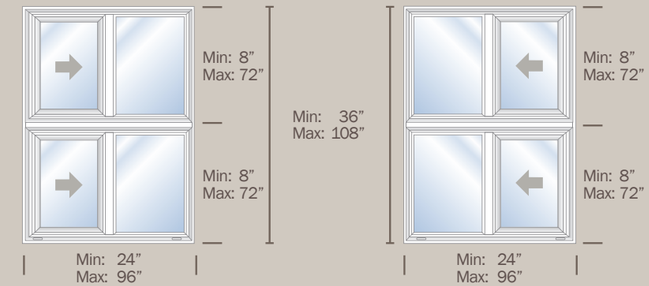


X02 0X2 Horizontal Sliding Windows

For specialty glass pricing please call our Order Desk

Standard Size	Imperial X02 or 0X2 Clear over Clear				Imperial X02 or 0X2 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
24” x 36”	132	144	138	150	144	156	150	162	36	72	12	2W/3H
24” x 42”	147	161	154	168	161	175	168	182	42	84	14	2W/3H
24” x 48”	160	176	168	184	176	192	184	200	48	96	16	2W/4H
24” x 54”	171	189	180	198	189	207	198	216	54	108	18	2W/4H
24” x 60”	180	200	190	210	200	220	210	230	60	120	20	2W/4H
24” x 72”	204	228	216	240	228	252	240	264	72	144	24	2W/6H
24” x 84”	224	252	238	266	252	280	266	294	84	168	28	2W/7H
24” x 96”	240	272	256	288	272	304	288	320	96	192	32	2W/8H
24” x 108”	270	306	288	324	306	342	324	360	108	216	36	2W/8H
30” x 36”	158	173	165	180	173	188	180	195	45	90	15	4W/3H
30” x 42”	175	193	184	201	193	210	201	219	53	105	18	4W/3H
30” x 48”	190	210	200	220	210	230	220	240	60	120	20	4W/4H
30” x 54”	203	225	214	236	225	248	236	259	68	135	23	4W/4H
30” x 60”	213	238	225	250	238	263	250	275	75	150	25	4W/4H
30” x 72”	240	270	255	285	270	300	285	315	90	180	30	4W/6H
30” x 84”	263	298	280	315	298	333	315	350	105	210	35	4W/7H
30” x 96”	280	320	300	340	320	360	340	380	120	240	40	4W/8H
30” x 108”	315	360	338	383	360	405	383	428	135	270	45	4W/8H
36” x 36”	180	198	189	207	198	216	207	225	54	108	18	4W/3H
36” x 42”	200	221	210	231	221	242	231	252	63	126	21	4W/3H
36” x 48”	216	240	228	252	240	264	252	276	72	144	24	4W/4H
36” x 54”	230	257	243	270	257	284	270	297	81	162	27	4W/4H
36” x 60”	240	270	255	285	270	300	285	315	90	180	30	4W/4H
36” x 72”	270	306	288	324	306	342	324	360	108	216	36	4W/6H
36” x 84”	294	336	315	357	336	378	357	399	126	252	42	4W/7H
36” x 96”	312	360	336	384	360	408	384	432	144	288	48	4W/8H
36” x 108”	351	405	378	432	405	459	432	486	162	324	54	4W/8H
42” x 36”	200	221	210	231	221	242	231	252	63	126	21	4W/3H
42” x 42”	221	245	233	257	245	270	257	282	74	147	25	4W/3H
42” x 48”	238	266	252	280	266	294	280	308	84	168	28	4W/4H
42” x 54”	252	284	268	299	284	315	299	331	95	189	32	4W/4H
42” x 60”	263	298	280	315	298	333	315	350	105	210	35	4W/4H
42” x 72”	294	336	315	357	336	378	357	399	126	252	42	4W/6H
42” x 84”	319	368	343	392	368	417	392	441	147	294	49	4W/7H
42” x 96”	336	392	364	420	392	448	420	476	168	336	56	4W/8H
42” x 108”	378	441	410	473	441	504	473	536	189	378	63	4W/8H
48” x 36”	216	240	228	252	240	264	252	276	72	144	24	4W/3H
48” x 42”	238	266	252	280	266	294	280	308	84	168	28	4W/3H
48” x 48”	256	288	272	304	288	320	304	336	96	192	32	4W/4H
48” x 54”	270	306	288	324	306	342	324	360	108	216	36	4W/4H
48” x 60”	280	320	300	340	320	360	340	380	120	240	40	4W/4H
48” x 72”	312	360	336	384	360	408	384	432	144	288	48	4W/6H
48” x 84”	336	392	364	420	392	448	420	476	168	336	56	4W/7H
48” x 96”	352	416	384	448	416	480	448	512	192	384	64	4W/8H
48” x 108”	396	468	432	504	468	540	504	576	216	432	72	4W/8H

Imperial - Series IM-2101



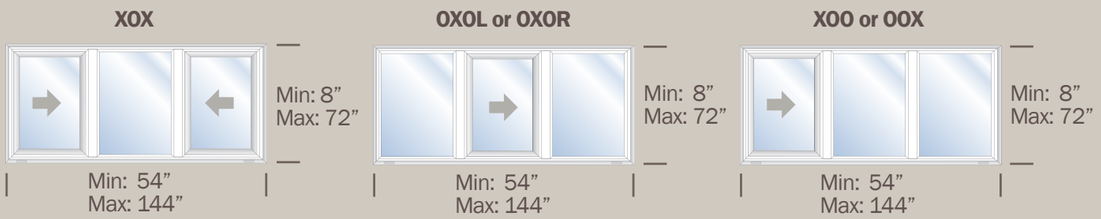
X02 0X2 Horizontal Sliding Windows

For specialty glass pricing please call our Order Desk

Standard Size	Imperial X02 or 0X2 Clear over Clear				Imperial X02 or 0X2 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54” x 36”	230	257	243	270	257	284	270	297	81	162	27	4W/3H
54” x 42”	252	284	268	299	284	315	299	331	95	189	32	4W/3H
54” x 48”	270	306	288	324	306	342	324	360	108	216	36	4W/4H
54” x 54”	284	324	304	344	324	365	344	385	122	243	41	4W/4H
54” x 60”	293	338	315	360	338	383	360	405	135	270	45	4W/4H
54” x 72”	324	378	351	405	378	432	405	459	162	324	54	4W/6H
54” x 84”	347	410	378	441	410	473	441	504	189	378	63	4W/7H
54” x 96”	396	468	432	504	468	540	504	576	216	432	72	4W/8H
54” x 108”	446	527	486	567	527	608	567	648	243	486	81	4W/8H
60” x 36”	240	270	255	285	270	300	285	315	90	180	30	6W/3H
60” x 42”	263	298	280	315	298	333	315	350	105	210	35	6W/3H
60” x 48”	280	320	300	340	320	360	340	380	120	240	40	6W/4H
60” x 54”	293	338	315	360	338	383	360	405	135	270	45	6W/4H
60” x 60”	300	350	325	375	350	400	375	425	150	300	50	6W/4H
60” x 72”	330	390	360	420	390	450	420	480	180	360	60	6W/6H
60” x 84”	385	455	420	490	455	525	490	560	210	420	70	6W/7H
60” x 96”	440	520	480	560	520	600	560	640	240	480	80	6W/8H
60” x 108”	495	585	540	630	585	675	630	720	270	540	90	6W/8H
72” x 36”	270	306	288	324	306	342	324	360	108	216	36	6W/3H
72” x 42”	294	336	315	357	336	378	357	399	126	252	42	6W/3H
72” x 48”	312	360	336	384	360	408	384	432	144	288	48	6W/4H
72” x 54”	324	378	351	405	378	432	405	459	162	324	54	6W/4H
72” x 60”	330	390	360	420	390	450	420	480	180	360	60	6W/4H
72” x 72”	396	468	432	504	468	540	504	576	216	432	72	6W/6H
72” x 84”	462	546	504	588	546	630	588	672	252	504	84	6W/7H
72” x 96”	528	624	576	672	624	720	672	768	288	576	96	6W/8H
72” x 108”	594	702	648	756	702	810	756	864	324	648	108	6W/8H
84” x 36”	294	336	315	357	336	378	357	399	126	252	42	8W/3H
84” x 42”	319	368	343	392	368	417	392	441	147	294	49	8W/3H
84” x 48”	336	392	364	420	392	448	420	476	168	336	56	8W/4H
84” x 54”	347	410	378	441	410	473	441	504	189	378	63	8W/4H
84” x 60”	385	455	420	490	455	525	490	560	210	420	70	8W/4H
84” x 72”	462	546	504	588	546	630	588	672	252	504	84	8W/6H
84” x 84”	539	637	588	686	637	735	686	784	294	588	98	8W/7H
84” x 96”	616	728	672	784	728	840	784	896	336	672	112	8W/8H
84” x 108”	693	819	756	882	819	945	882	1,008	378	756	126	8W/8H
96” x 36”	436	484	460	508	484	532	508	556	144	288	48	10W/3H
96” x 42”	464	520	492	548	520	576	548	604	168	336	56	10W/3H
96” x 48”	484	548	516	580	548	612	580	644	192	384	64	10W/4H
96” x 54”	496	568	532	604	568	640	604	676	216	432	72	10W/4H
96” x 60”	540	620	580	660	620	700	660	740	240	480	80	10W/4H
96” x 72”	628	724	676	772	724	820	772	868	288	576	96	10W/6H
96” x 84”	716	828	772	884	828	940	884	996	336	672	112	10W/7H
96” x 96”	804	932	868	996	932	1,060	996	1,124	384	768	128	10W/8H
96” x 108”	892	1,036	964	1,108	1,036	1,180	1,108	1,252	432	864	144	10W/8H

Imperial - Series IM-2101

XOX, OXOL, OXOR, XOO, OOX Horizontal Sliding Windows

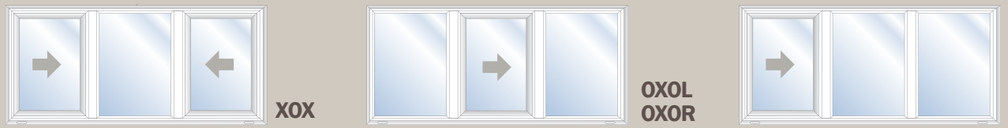


For specialty glass pricing please call our Order Desk

Standard Size	Imperial XOX, OXOL, OXOR, XOO, OOX Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with gridss	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54” x 18”	122	135	128	142	135	149	142	155	41	81	14	4W/2H
54” x 24”	153	171	162	180	171	189	180	198	54	108	18	4W/2H
54” x 30”	180	203	191	214	203	225	214	236	68	135	23	4W/2H
54” x 36”	203	230	216	243	230	257	243	270	81	162	27	4W/3H
54” x 42”	221	252	236	268	252	284	268	299	95	189	32	4W/3H
54” x 48”	234	270	252	288	270	306	288	324	108	216	36	4W/3H
54” x 54”	243	284	263	304	284	324	304	344	122	243	41	4W/4H
54” x 60”	248	293	270	315	293	338	315	360	135	270	45	4W/4H
54” x 72”	270	324	297	351	324	378	351	405	162	324	54	4W/5H
60” x 18”	128	143	135	150	143	158	150	165	45	90	15	8W/2H
60” x 24”	160	180	170	190	180	200	190	210	60	120	20	8W/2H
60” x 30”	188	213	200	225	213	238	225	250	75	150	25	8W/2H
60” x 36”	210	240	225	255	240	270	255	285	90	180	30	8W/3H
60” x 42”	228	263	245	280	263	298	280	315	105	210	35	8W/3H
60” x 48”	240	280	260	300	280	320	300	340	120	240	40	8W/3H
60” x 54”	248	293	270	315	293	338	315	360	135	270	45	8W/4H
60” x 60”	250	300	275	325	300	350	325	375	150	300	50	8W/4H
60” x 72”	270	330	300	360	330	390	360	420	180	360	60	8W/5H
72” x 18”	144	162	153	171	162	180	171	189	54	108	18	8W/2H
72” x 24”	180	204	192	216	204	228	216	240	72	144	24	8W/2H
72” x 30”	210	240	225	255	240	270	255	285	90	180	30	8W/2H
72” x 36”	234	270	252	288	270	306	288	324	108	216	36	8W/3H
72” x 42”	252	294	273	315	294	336	315	357	126	252	42	8W/3H
72” x 48”	264	312	288	336	312	360	336	384	144	288	48	8W/3H
72” x 54”	270	324	297	351	324	378	351	405	162	324	54	8W/4H
72” x 60”	285	345	315	375	345	405	375	435	180	360	60	8W/4H
72” x 72”	324	396	360	432	396	468	432	504	216	432	72	8W/5H
84” x 18”	158	179	168	189	179	200	189	210	63	126	21	8W/2H
84” x 24”	196	224	210	238	224	252	238	266	84	168	28	8W/2H
84” x 30”	228	263	245	280	263	298	280	315	105	210	35	8W/2H
84” x 36”	252	294	273	315	294	336	315	357	126	252	42	8W/3H
84” x 42”	270	319	294	343	319	368	343	392	147	294	49	8W/3H
84” x 48”	280	336	308	364	336	392	364	420	168	336	56	8W/3H
84” x 54”	299	362	331	394	362	425	394	457	189	378	63	8W/4H

Imperial - Series IM-2101

XOX, OXOL, OXOR, XOO, OOX Horizontal Sliding Windows



For specialty glass pricing please call our Order Desk

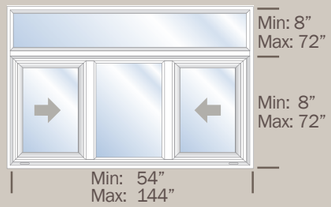
Standard Size	Imperial XOX, OXOL, OXOR, XOO, OOX Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with gridss	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
84” x 60”	315	385	350	420	385	455	420	490	210	420	70	8W/4H
84” x 72”	357	441	399	483	441	525	483	567	252	504	84	8W/5H
96” x 18”	168	192	180	204	192	216	204	228	72	144	24	8W/2H
96” x 24”	208	240	224	256	240	272	256	288	96	192	32	8W/2H
96” x 30”	240	280	260	300	280	320	300	340	120	240	40	8W/2H
96” x 36”	264	312	288	336	312	360	336	384	144	288	48	8W/3H
96” x 42”	280	336	308	364	336	392	364	420	168	336	56	8W/3H
96” x 48”	304	368	336	400	368	432	400	464	192	384	64	8W/3H
96” x 54”	324	396	360	432	396	468	432	504	216	432	72	8W/4H
96” x 60”	340	420	380	460	420	500	460	540	240	480	80	8W/4H
96” x 72”	384	480	432	528	480	576	528	624	288	576	96	8W/5H
108” x 18”	176	203	189	216	203	230	216	243	81	162	27	8W/2H
108” x 24”	216	252	234	270	252	288	270	306	108	216	36	8W/2H
108” x 30”	248	293	270	315	293	338	315	360	135	270	45	8W/2H
108” x 36”	270	324	297	351	324	378	351	405	162	324	54	8W/3H
108” x 42”	299	362	331	394	362	425	394	457	189	378	63	8W/3H
108” x 48”	324	396	360	432	396	468	432	504	216	432	72	8W/3H
108” x 54”	344	425	385	466	425	506	466	547	243	486	81	8W/4H
108” x 60”	360	450	405	495	450	540	495	585	270	540	90	8W/4H
108” x 72”	405	513	459	567	513	621	567	675	324	648	108	8W/5H
120” x 18”	295	325	310	340	325	355	340	370	90	180	30	12W/2H
120” x 24”	340	380	360	400	380	420	400	440	120	240	40	12W/2H
120” x 30”	375	425	400	450	425	475	450	500	150	300	50	12W/2H
120” x 36”	400	460	430	490	460	520	490	550	180	360	60	12W/3H
120” x 42”	433	503	468	538	503	573	538	608	210	420	70	12W/3H
120” x 48”	460	540	500	580	540	620	580	660	240	480	80	12W/3H
120” x 54”	483	573	528	618	573	663	618	708	270	540	90	12W/4H
120” x 60”	500	600	550	650	600	700	650	750	300	600	100	12W/4H
120” x 72”	550	670	610	730	670	790	730	850	360	720	120	12W/5H
144” x 18”	334	370	352	388	370	406	388	424	108	216	36	12W/2H
144” x 24”	388	436	412	460	436	484	460	508	144	288	48	12W/2H
144” x 30”	430	490	460	520	490	550	520	580	180	360	60	12W/2H
144” x 36”	460	532	496	568	532	604	568	640	216	432	72	12W/3H
144” x 42”	499	583	541	625	583	667	625	709	252	504	84	12W/3H
144” x 48”	532	628	580	676	628	724	676	772	288	576	96	12W/3H
144” x 54”	559	667	613	721	667	775	721	829	324	648	108	12W/4H
144” x 60”	580	700	640	760	700	820	760	880	360	720	120	12W/4H
144” x 72”	640	784	712	856	784	928	856	1,000	432	864	144	12W/5H

Imperial - Series IM-2101

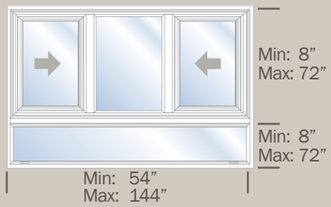
XOX, OXOL, OXOR, XOO, OOX - T1 or B1

Horizontal Sliding Windows with Picture windows on Top or Bottom

XOX T1



XOX B1



All three panel Imperial sliding windows, XOX, XOO, OOX, and OXO are available with one, two or three top or bottom picture windows, as shown in the XOX combination units above.

For specialty glass pricing please call our Order Desk

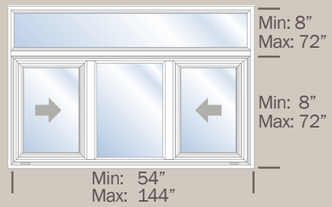
Standard Size	Imperial XOX, OXOL, OXOR, XOO, OOX T1 or B1 Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX T1 or B1 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54” x 36”	257	284	270	297	284	311	297	324	81	162	27	4W/3H
54” x 42”	284	315	299	331	315	347	331	362	95	189	32	4W/3H
54” x 48”	306	342	324	360	342	378	360	396	108	216	36	4W/3H
54” x 54”	324	365	344	385	365	405	385	425	122	243	41	4W/5H
54” x 60”	338	383	360	405	383	428	405	450	135	270	45	4W/5H
54” x 72”	378	432	405	459	432	486	459	513	162	324	54	4W/5H
54” x 84”	410	473	441	504	473	536	504	567	189	378	63	4W/6H
54” x 96”	432	504	468	540	504	576	540	612	216	432	72	4W/6H
54” x 108”	486	567	527	608	567	648	608	689	243	486	81	4W/6H
60” x 36”	270	300	285	315	300	330	315	345	90	180	30	8W/3H
60” x 42”	298	333	315	350	333	368	350	385	105	210	35	8W/3H
60” x 48”	320	360	340	380	360	400	380	420	120	240	40	8W/3H
60” x 54”	338	383	360	405	383	428	405	450	135	270	45	8W/5H
60” x 60”	350	400	375	425	400	450	425	475	150	300	50	8W/5H
60” x 72”	390	450	420	480	450	510	480	540	180	360	60	8W/5H
60” x 84”	420	490	455	525	490	560	525	595	210	420	70	8W/6H
60” x 96”	440	520	480	560	520	600	560	640	240	480	80	8W/6H
60” x 108”	495	585	540	630	585	675	630	720	270	540	90	8W/6H
72” x 36”	306	342	324	360	342	378	360	396	108	216	36	8W/3H
72” x 42”	336	378	357	399	378	420	399	441	126	252	42	8W/3H
72” x 48”	360	408	384	432	408	456	432	480	144	288	48	8W/3H
72” x 54”	378	432	405	459	432	486	459	513	162	324	54	8W/5H
72” x 60”	390	450	420	480	450	510	480	540	180	360	60	8W/5H
72” x 72”	432	504	468	540	504	576	540	612	216	432	72	8W/5H
72” x 84”	462	546	504	588	546	630	588	672	252	504	84	8W/6H
72” x 96”	480	576	528	624	576	672	624	720	288	576	96	8W/6H
72” x 108”	540	648	594	702	648	756	702	810	324	648	108	8W/6H
84” x 36”	336	378	357	399	378	420	399	441	126	252	42	8W/3H
84” x 42”	368	417	392	441	417	466	441	490	147	294	49	8W/3H
84” x 48”	392	448	420	476	448	504	476	532	168	336	56	8W/3H
84” x 54”	410	473	441	504	473	536	504	567	189	378	63	8W/5H
84” x 60”	420	490	455	525	490	560	525	595	210	420	70	8W/5H
84” x 72”	462	546	504	588	546	630	588	672	252	504	84	8W/5H
84” x 84”	490	588	539	637	588	686	637	735	294	588	98	8W/6H
84” x 96”	532	644	588	700	644	756	700	812	336	672	112	8W/6H
84” x 108”	599	725	662	788	725	851	788	914	378	756	126	8W/6H

Imperial - Series IM-2101

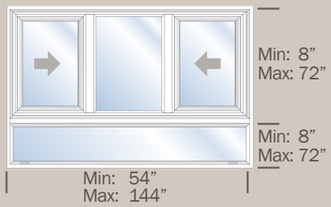
XOX, OXOL, OXOR, XOO, OOX - T1 or B1

Horizontal Sliding Windows with Picture windows on Top or Bottom

XOX T1



XOX B1



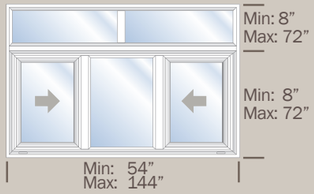
All three panel Imperial sliding windows, XOX, XOO, OOX, and OXO are available with one, two or three top or bottom picture windows, as shown in the XOX combination units above.

For specialty glass pricing please call our Order Desk

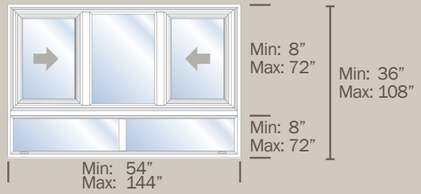
Standard Size	Imperial XOX, OXOL, OXOR, XOO, OOX T1 or B1 Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX T1 or B1 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
96” x 36”	360	408	384	432	408	456	432	480	144	288	48	8W/3H
96” x 42”	392	448	420	476	448	504	476	532	168	336	56	8W/3H
96” x 48”	416	480	448	512	480	544	512	576	192	384	64	8W/3H
96” x 54”	432	504	468	540	504	576	540	612	216	432	72	8W/5H
96” x 60”	440	520	480	560	520	600	560	640	240	480	80	8W/5H
96” x 72”	480	576	528	624	576	672	624	720	288	576	96	8W/5H
96” x 84”	532	644	588	700	644	756	700	812	336	672	112	8W/6H
96” x 96”	576	704	640	768	704	832	768	896	384	768	128	8W/6H
96” x 108”	648	792	720	864	792	936	864	1,008	432	864	144	8W/6H
108” x 36”	378	432	405	459	432	486	459	513	162	324	54	8W/3H
108” x 42”	410	473	441	504	473	536	504	567	189	378	63	8W/3H
108” x 48”	432	504	468	540	504	576	540	612	216	432	72	8W/3H
108” x 54”	446	527	486	567	527	608	567	648	243	486	81	8W/5H
108” x 60”	450	540	495	585	540	630	585	675	270	540	90	8W/5H
108” x 72”	513	621	567	675	621	729	675	783	324	648	108	8W/5H
108” x 84”	567	693	630	756	693	819	756	882	378	756	126	8W/6H
108” x 96”	612	756	684	828	756	900	828	972	432	864	144	8W/6H
108” x 108”	689	851	770	932	851	1,013	932	1,094	486	972	162	8W/6H
120” x 36”	520	580	550	610	580	640	610	670	180	360	60	12W/3H
120” x 42”	555	625	590	660	625	695	660	730	210	420	70	12W/3H
120” x 48”	580	660	620	700	660	740	700	780	240	480	80	12W/3H
120” x 54”	595	685	640	730	685	775	730	820	270	540	90	12W/5H
120” x 60”	600	700	650	750	700	800	750	850	300	600	100	12W/5H
120” x 72”	670	790	730	850	790	910	850	970	360	720	120	12W/5H
120” x 84”	730	870	800	940	870	1,010	940	1,080	420	840	140	12W/6H
120” x 96”	780	940	860	1,020	940	1,100	1,020	1,180	480	960	160	12W/6H
120” x 108”	865	1,045	955	1,135	1,045	1,225	1,135	1,315	540	1,080	180	12W/6H
144” x 36”	604	676	640	712	676	748	712	784	216	432	72	12W/3H
144” x 42”	646	730	688	772	730	814	772	856	252	504	84	12W/3H
144” x 48”	676	772	724	820	772	868	820	916	288	576	96	12W/3H
144” x 54”	694	802	748	856	802	910	856	964	324	648	108	12W/5H
144” x 60”	700	820	760	880	820	940	880	1,000	360	720	120	12W/5H
144” x 72”	784	928	856	1,000	928	1,072	1,000	1,144	432	864	144	12W/5H
144” x 84”	856	1,024	940	1,108	1,024	1,192	1,108	1,276	504	1,008	168	12W/6H
144” x 96”	916	1,108	1,012	1,204	1,108	1,300	1,204	1,396	576	1,152	192	12W/6H
144” x 108”	1,018	1,234	1,126	1,342	1,234	1,450	1,342	1,558	648	1,296	216	12W/6H

Imperial - Series IM-2101
XOX, OXOL, OXOR, XOO, OOX - T2 or B2
Horizontal Sliding Windows with Picture windows on Top or Bottom

XOX T2



XOX B2



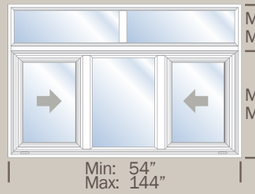
All three panel Imperial sliding windows, XOX, XOO, OOX, and OXO are available with one, two or three top or bottom picture windows, as shown in the XOX combination units above.

For specialty glass pricing please call our Order Desk

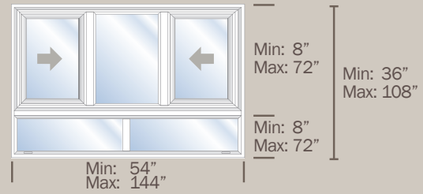
	Imperial XOX, OXOL, OXOR, XOO, OOX T2 or B2 Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX T2 or B2 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
54" x 36"	270	297	284	311	297	324	311	338	81	162	27	4W/3H
54" x 42"	299	331	315	347	331	362	347	378	95	189	32	4W/3H
54" x 48"	324	360	342	378	360	396	378	414	108	216	36	4W/3H
54" x 54"	344	385	365	405	385	425	405	446	122	243	41	4W/5H
54" x 60"	360	405	383	428	405	450	428	473	135	270	45	4W/5H
54" x 72"	405	459	432	486	459	513	486	540	162	324	54	4W/5H
54" x 84"	441	504	473	536	504	567	536	599	189	378	63	4W/6H
54" x 96"	468	540	504	576	540	612	576	648	216	432	72	4W/6H
54" x 108"	527	608	567	648	608	689	648	729	243	486	81	4W/6H
60" x 36"	285	315	300	330	315	345	330	360	90	180	30	8W/3H
60" x 42"	315	350	333	368	350	385	368	403	105	210	35	8W/3H
60" x 48"	340	380	360	400	380	420	400	440	120	240	40	8W/3H
60" x 54"	360	405	383	428	405	450	428	473	135	270	45	8W/5H
60" x 60"	375	425	400	450	425	475	450	500	150	300	50	8W/5H
60" x 72"	420	480	450	510	480	540	510	570	180	360	60	8W/5H
60" x 84"	455	525	490	560	525	595	560	630	210	420	70	8W/6H
60" x 96"	480	560	520	600	560	640	600	680	240	480	80	8W/6H
60" x 108"	540	630	585	675	630	720	675	765	270	540	90	8W/6H
72" x 36"	324	360	342	378	360	396	378	414	108	216	36	8W/3H
72" x 42"	357	399	378	420	399	441	420	462	126	252	42	8W/3H
72" x 48"	384	432	408	456	432	480	456	504	144	288	48	8W/3H
72" x 54"	405	459	432	486	459	513	486	540	162	324	54	8W/5H
72" x 60"	420	480	450	510	480	540	510	570	180	360	60	8W/5H
72" x 72"	468	540	504	576	540	612	576	648	216	432	72	8W/5H
72" x 84"	504	588	546	630	588	672	630	714	252	504	84	8W/6H
72" x 96"	528	624	576	672	624	720	672	768	288	576	96	8W/6H
72" x 108"	594	702	648	756	702	810	756	864	324	648	108	8W/6H
84" x 36"	357	399	378	420	399	441	420	462	126	252	42	8W/3H
84" x 42"	392	441	417	466	441	490	466	515	147	294	49	8W/3H
84" x 48"	420	476	448	504	476	532	504	560	168	336	56	8W/3H
84" x 54"	441	504	473	536	504	567	536	599	189	378	63	8W/5H
84" x 60"	455	525	490	560	525	595	560	630	210	420	70	8W/5H
84" x 72"	504	588	546	630	588	672	630	714	252	504	84	8W/5H
84" x 84"	539	637	588	686	637	735	686	784	294	588	98	8W/6H
84" x 96"	588	700	644	756	700	812	756	868	336	672	112	8W/6H
84" x 108"	662	788	725	851	788	914	851	977	378	756	126	8W/6H

Imperial - Series IM-2101
XOX, OXOL, OXOR, XOO, OOX - T2 or B2
Horizontal Sliding Windows with Picture windows on Top or Bottom

XOX T2



XOX B2

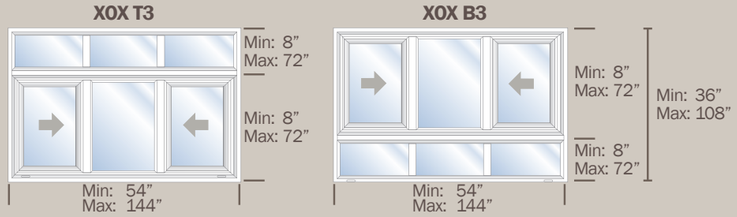


All three panel Imperial sliding windows, XOX, XOO, OOX, and OXO are available with one, two or three top or bottom picture windows, as shown in the XOX combination units above.

For specialty glass pricing please call our Order Desk

	Imperial XOX, OXOL, OXOR, XOO, OOX T2 or B2 Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX T2 or B2 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
96" x 36"	384	432	408	456	432	480	456	504	144	288	48	8W/3H
96" x 42"	420	476	448	504	476	532	504	560	168	336	56	8W/3H
96" x 48"	448	512	480	544	512	576	544	608	192	384	64	8W/3H
96" x 54"	468	540	504	576	540	612	576	648	216	432	72	8W/5H
96" x 60"	480	560	520	600	560	640	600	680	240	480	80	8W/5H
96" x 72"	528	624	576	672	624	720	672	768	288	576	96	8W/5H
96" x 84"	588	700	644	756	700	812	756	868	336	672	112	8W/6H
96" x 96"	640	768	704	832	768	896	832	960	384	768	128	8W/6H
96" x 108"	720	864	792	936	864	1,008	936	1,080	432	864	144	8W/6H
108" x 36"	405	459	432	486	459	513	486	540	162	324	54	8W/3H
108" x 42"	441	504	473	536	504	567	536	599	189	378	63	8W/3H
108" x 48"	468	540	504	576	540	612	576	648	216	432	72	8W/3H
108" x 54"	486	567	527	608	567	648	608	689	243	486	81	8W/5H
108" x 60"	495	585	540	630	585	675	630	720	270	540	90	8W/5H
108" x 72"	567	675	621	729	675	783	729	837	324	648	108	8W/5H
108" x 84"	630	756	693	819	756	882	819	945	378	756	126	8W/6H
108" x 96"	684	828	756	900	828	972	900	1,044	432	864	144	8W/6H
108" x 108"	770	932	851	1,013	932	1,094	1,013	1,175	486	972	162	8W/6H
120" x 36"	550	610	580	640	610	670	640	700	180	360	60	12W/3H
120" x 42"	590	660	625	695	660	730	695	765	210	420	70	12W/3H
120" x 48"	620	700	660	740	700	780	740	820	240	480	80	12W/3H
120" x 54"	640	730	685	775	730	820	775	865	270	540	90	12W/5H
120" x 60"	650	750	700	800	750	850	800	900	300	600	100	12W/5H
120" x 72"	730	850	790	910	850	970	910	1,030	360	720	120	12W/5H
120" x 84"	800	940	870	1,010	940	1,080	1,010	1,150	420	840	140	12W/6H
120" x 96"	860	1,020	940	1,100	1,020	1,180	1,100	1,260	480	960	160	12W/6H
120" x 108"	955	1,135	1,045	1,225	1,135	1,315	1,225	1,405	540	1,080	180	12W/6H
144" x 36"	640	712	676	748	712	784	748	820	216	432	72	12W/3H
144" x 42"	688	772	730	814	772	856	814	898	252	504	84	12W/3H
144" x 48"	724	820	772	868	820	916	868	964	288	576	96	12W/3H
144" x 54"	748	856	802	910	856	964	910	1,018	324	648	108	12W/5H
144" x 60"	760	880	820	940	880	1,000	940	1,060	360	720	120	12W/5H
144" x 72"	856	1,000	928	1,072	1,000	1,144	1,072	1,216	432	864	144	12W/5H
144" x 84"	940	1,108	1,024	1,192	1,108	1,276	1,192	1,360	504	1,008	168	12W/6H
144" x 96"	1,012	1,204	1,108	1,300	1,204	1,396	1,300	1,492	576	1,152	192	12W/6H
144" x 108"	1,126	1,342	1,234	1,450	1,342	1,558	1,450	1,666	648	1,296	216	12W/6H

Imperial - Series IM-2101
XOX, OXOL, OXOR, XOO, OOX - T3 or B3
Horizontal Sliding Windows with Picture windows on Top or Bottom

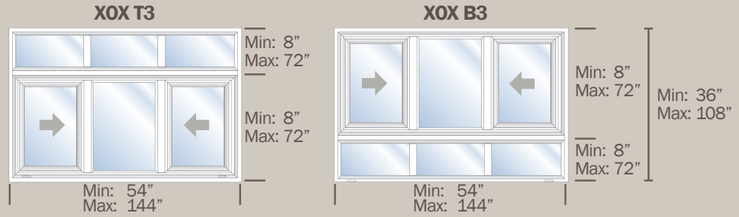


All three panel Imperial sliding windows, XOX, XOO, OOX, and OXO are available with one, two or three top or bottom picture windows, as shown in the XOX combination units above.

For specialty glass pricing please call our Order Desk

Standard Size	Imperial XOX, OXOL, OXOR, XOO, OOX T3 or B3 Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX T3 or B3 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54” x 36”	284	311	297	324	311	338	324	351	81	162	27	4W/3H
54” x 42”	315	347	331	362	347	378	362	394	95	189	32	4W/3H
54” x 48”	342	378	360	396	378	414	396	432	108	216	36	4W/3H
54” x 54”	365	405	385	425	405	446	425	466	122	243	41	4W/5H
54” x 60”	383	428	405	450	428	473	450	495	135	270	45	4W/5H
54” x 72”	432	486	459	513	486	540	513	567	162	324	54	4W/5H
54” x 84”	473	536	504	567	536	599	567	630	189	378	63	4W/6H
54” x 96”	504	576	540	612	576	648	612	684	216	432	72	4W/6H
54” x 108”	567	648	608	689	648	729	689	770	243	486	81	4W/6H
60” x 36”	300	330	315	345	330	360	345	375	90	180	30	8W/3H
60” x 42”	333	368	350	385	368	403	385	420	105	210	35	8W/3H
60” x 48”	360	400	380	420	400	440	420	460	120	240	40	8W/3H
60” x 54”	383	428	405	450	428	473	450	495	135	270	45	8W/5H
60” x 60”	400	450	425	475	450	500	475	525	150	300	50	8W/5H
60” x 72”	450	510	480	540	510	570	540	600	180	360	60	8W/5H
60” x 84”	490	560	525	595	560	630	595	665	210	420	70	8W/6H
60” x 96”	520	600	560	640	600	680	640	720	240	480	80	8W/6H
60” x 108”	585	675	630	720	675	765	720	810	270	540	90	8W/6H
72” x 36”	342	378	360	396	378	414	396	432	108	216	36	8W/3H
72” x 42”	378	420	399	441	420	462	441	483	126	252	42	8W/3H
72” x 48”	408	456	432	480	456	504	480	528	144	288	48	8W/3H
72” x 54”	432	486	459	513	486	540	513	567	162	324	54	8W/5H
72” x 60”	450	510	480	540	510	570	540	600	180	360	60	8W/5H
72” x 72”	504	576	540	612	576	648	612	684	216	432	72	8W/5H
72” x 84”	546	630	588	672	630	714	672	756	252	504	84	8W/6H
72” x 96”	576	672	624	720	672	768	720	816	288	576	96	8W/6H
72” x 108”	648	756	702	810	756	864	810	918	324	648	108	8W/6H
84” x 36”	378	420	399	441	420	462	441	483	126	252	42	8W/3H
84” x 42”	417	466	441	490	466	515	490	539	147	294	49	8W/3H
84” x 48”	448	504	476	532	504	560	532	588	168	336	56	8W/3H
84” x 54”	473	536	504	567	536	599	567	630	189	378	63	8W/5H
84” x 60”	490	560	525	595	560	630	595	665	210	420	70	8W/5H
84” x 72”	546	630	588	672	630	714	672	756	252	504	84	8W/5H
84” x 84”	588	686	637	735	686	784	735	833	294	588	98	8W/6H
84” x 96”	644	756	700	812	756	868	812	924	336	672	112	8W/6H
84” x 108”	725	851	788	914	851	977	914	1,040	378	756	126	8W/6H

Imperial - Series IM-2101
XOX, OXOL, OXOR, XOO, OOX - T3 or B3
Horizontal Sliding Windows with Picture windows on Top or Bottom



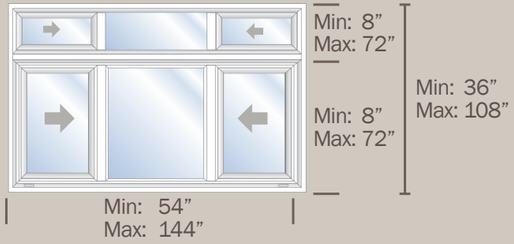
All three panel Imperial sliding windows, XOX, XOO, OOX, and OXO are available with one, two or three top or bottom picture windows, as shown in the XOX combination units above.

For specialty glass pricing please call our Order Desk

Standard Size	Imperial XOX, OXOL, OXOR, XOO, OOX T3 or B3 Clear over Clear				Imperial XOX, OXOL, OXOR, XOO, OOX T3 or B3 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
96” x 36”	408	456	432	480	456	504	480	528	144	288	48	8W/3H
96” x 42”	448	504	476	532	504	560	532	588	168	336	56	8W/3H
96” x 48”	480	544	512	576	544	608	576	640	192	384	64	8W/3H
96” x 54”	504	576	540	612	576	648	612	684	216	432	72	8W/5H
96” x 60”	520	600	560	640	600	680	640	720	240	480	80	8W/5H
96” x 72”	576	672	624	720	672	768	720	816	288	576	96	8W/5H
96” x 84”	644	756	700	812	756	868	812	924	336	672	112	8W/6H
96” x 96”	704	832	768	896	832	960	896	1,024	384	768	128	8W/6H
96” x 108”	792	936	864	1,008	936	1,080	1,008	1,152	432	864	144	8W/6H
108” x 36”	432	486	459	513	486	540	513	567	162	324	54	8W/3H
108” x 42”	473	536	504	567	536	599	567	630	189	378	63	8W/3H
108” x 48”	504	576	540	612	576	648	612	684	216	432	72	8W/3H
108” x 54”	527	608	567	648	608	689	648	729	243	486	81	8W/5H
108” x 60”	540	630	585	675	630	720	675	765	270	540	90	8W/5H
108” x 72”	621	729	675	783	729	837	783	891	324	648	108	8W/5H
108” x 84”	693	819	756	882	819	945	882	1,008	378	756	126	8W/6H
108” x 96”	756	900	828	972	900	1,044	972	1,116	432	864	144	8W/6H
108” x 108”	851	1,013	932	1,094	1,013	1,175	1,094	1,256	486	972	162	8W/6H
120” x 36”	580	640	610	670	640	700	670	730	180	360	60	12W/3H
120” x 42”	625	695	660	730	695	765	730	800	210	420	70	12W/3H
120” x 48”	660	740	700	780	740	820	780	860	240	480	80	12W/3H
120” x 54”	685	775	730	820	775	865	820	910	270	540	90	12W/5H
120” x 60”	700	800	750	850	800	900	850	950	300	600	100	12W/5H
120” x 72”	790	910	850	970	910	1,030	970	1,090	360	720	120	12W/5H
120” x 84”	870	1,010	940	1,080	1,010	1,150	1,080	1,220	420	840	140	12W/6H
120” x 96”	940	1,100	1,020	1,180	1,100	1,260	1,180	1,340	480	960	160	12W/6H
120” x 108”	1,045	1,225	1,135	1,315	1,225	1,405	1,315	1,495	540	1,080	180	12W/6H
144” x 36”	676	748	712	784	748	820	784	856	216	432	72	12W/3H
144” x 42”	730	814	772	856	814	898	856	940	252	504	84	12W/3H
144” x 48”	772	868	820	916	868	964	916	1,012	288	576	96	12W/3H
144” x 54”	802	910	856	964	910	1,018	964	1,072	324	648	108	12W/5H
144” x 60”	820	940	880	1,000	940	1,060	1,000	1,120	360	720	120	12W/5H
144” x 72”	928	1,072	1,000	1,144	1,072	1,216	1,144	1,288	432	864	144	12W/5H
144” x 84”	1,024	1,192	1,108	1,276	1,192	1,360	1,276	1,444	504	1,008	168	12W/6H
144” x 96”	1,108	1,300	1,204	1,396	1,300	1,492	1,396	1,588	576	1,152	192	12W/6H
144” x 108”	1,234	1,450	1,342	1,558	1,450	1,666	1,558	1,774	648	1,296	216	12W/6H

Imperial - Series IM-2101
XOX2 Double Horizontal Sliding Windows

XOX 2

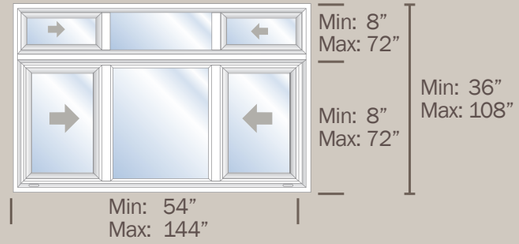


For specialty glass pricing please call our Order Desk

	Imperial - XOX2 Clear over Clear				Imperial - XOX2 Clear over LoE3							
Standard Size	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with gridss	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
54” x 36”	297	324	311	338	324	351	338	365	81	162	27	4W/3H
54” x 42”	331	362	347	378	362	394	378	410	95	189	32	4W/3H
54” x 48”	360	396	378	414	396	432	414	450	108	216	36	4W/3H
54” x 54”	385	425	405	446	425	466	446	486	122	243	41	4W/5H
54” x 60”	405	450	428	473	450	495	473	518	135	270	45	4W/5H
54” x 72”	459	513	486	540	513	567	540	594	162	324	54	4W/5H
54” x 84”	504	567	536	599	567	630	599	662	189	378	63	4W/6H
54” x 96”	540	612	576	648	612	684	648	720	216	432	72	4W/6H
54” x 108”	608	689	648	729	689	770	729	810	243	486	81	4W/6H
60” x 36”	315	345	330	360	345	375	360	390	90	180	30	8W/3H
60” x 42”	350	385	368	403	385	420	403	438	105	210	35	8W/3H
60” x 48”	380	420	400	440	420	460	440	480	120	240	40	8W/3H
60” x 54”	405	450	428	473	450	495	473	518	135	270	45	8W/5H
60” x 60”	425	475	450	500	475	525	500	550	150	300	50	8W/5H
60” x 72”	480	540	510	570	540	600	570	630	180	360	60	8W/5H
60” x 84”	525	595	560	630	595	665	630	700	210	420	70	8W/6H
60” x 96”	560	640	600	680	640	720	680	760	240	480	80	8W/6H
60” x 108”	630	720	675	765	720	810	765	855	270	540	90	8W/6H
72” x 36”	360	396	378	414	396	432	414	450	108	216	36	8W/3H
72” x 42”	399	441	420	462	441	483	462	504	126	252	42	8W/3H
72” x 48”	432	480	456	504	480	528	504	552	144	288	48	8W/3H
72” x 54”	459	513	486	540	513	567	540	594	162	324	54	8W/5H
72” x 60”	480	540	510	570	540	600	570	630	180	360	60	8W/5H
72” x 72”	540	612	576	648	612	684	648	720	216	432	72	8W/5H
72” x 84”	588	672	630	714	672	756	714	798	252	504	84	8W/6H
72” x 96”	624	720	672	768	720	816	768	864	288	576	96	8W/6H
72” x 108”	702	810	756	864	810	918	864	972	324	648	108	8W/6H
84” x 36”	399	441	420	462	441	483	462	504	126	252	42	8W/3H
84” x 42”	441	490	466	515	490	539	515	564	147	294	49	8W/3H
84” x 48”	476	532	504	560	532	588	560	616	168	336	56	8W/3H
84” x 54”	504	567	536	599	567	630	599	662	189	378	63	8W/5H
84” x 60”	525	595	560	630	595	665	630	700	210	420	70	8W/5H
84” x 72”	588	672	630	714	672	756	714	798	252	504	84	8W/5H
84” x 84”	637	735	686	784	735	833	784	882	294	588	98	8W/6H
84” x 96”	700	812	756	868	812	924	868	980	336	672	112	8W/6H
84” x 108”	788	914	851	977	914	1,040	977	1,103	378	756	126	8W/6H

Imperial - Series IM-2101
XOX2 ~ Double Horizontal Sliding Windows

XOX 2

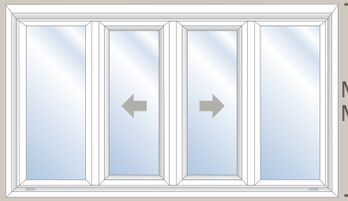


For specialty glass pricing please call our Order Desk

	Imperial - XOX2 Clear over Clear				Imperial - XOX2 Clear over LoE3							
Standard Size	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with gridss	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
96” x 36”	432	480	456	504	480	528	504	552	144	288	48	8W/3H
96” x 42”	476	532	504	560	532	588	560	616	168	336	56	8W/3H
96” x 48”	512	576	544	608	576	640	608	672	192	384	64	8W/3H
96” x 54”	540	612	576	648	612	684	648	720	216	432	72	8W/5H
96” x 60”	560	640	600	680	640	720	680	760	240	480	80	8W/5H
96” x 72”	624	720	672	768	720	816	768	864	288	576	96	8W/5H
96” x 84”	700	812	756	868	812	924	868	980	336	672	112	8W/6H
96” x 96”	768	896	832	960	896	1,024	960	1,088	384	768	128	8W/6H
96” x 108”	864	1,008	936	1,080	1,008	1,152	1,080	1,224	432	864	144	8W/6H
108” x 36”	459	513	486	540	513	567	540	594	162	324	54	8W/3H
108” x 42”	504	567	536	599	567	630	599	662	189	378	63	8W/3H
108” x 48”	540	612	576	648	612	684	648	720	216	432	72	8W/3H
108” x 54”	567	648	608	689	648	729	689	770	243	486	81	8W/5H
108” x 60”	585	675	630	720	675	765	720	810	270	540	90	8W/5H
108” x 72”	675	783	729	837	783	891	837	945	324	648	108	8W/5H
108” x 84”	756	882	819	945	882	1,008	945	1,071	378	756	126	8W/6H
108” x 96”	828	972	900	1,044	972	1,116	1,044	1,188	432	864	144	8W/6H
108” x 108”	932	1,094	1,013	1,175	1,094	1,256	1,175	1,337	486	972	162	8W/6H
120” x 36”	610	670	640	700	670	730	700	760	180	360	60	12W/3H
120” x 42”	660	730	695	765	730	800	765	835	210	420	70	12W/3H
120” x 48”	700	780	740	820	780	860	820	900	240	480	80	12W/3H
120” x 54”	730	820	775	865	820	910	865	955	270	540	90	12W/5H
120” x 60”	750	850	800	900	850	950	900	1,000	300	600	100	12W/5H
120” x 72”	850	970	910	1,030	970	1,090	1,030	1,150	360	720	120	12W/5H
120” x 84”	940	1,080	1,010	1,150	1,080	1,220	1,150	1,290	420	840	140	12W/6H
120” x 96”	1,020	1,180	1,100	1,260	1,180	1,340	1,260	1,420	480	960	160	12W/6H
120” x 108”	1,135	1,315	1,225	1,405	1,315	1,495	1,405	1,585	540	1,080	180	12W/6H
144” x 36”	712	784	748	820	784	856	820	892	216	432	72	12W/3H
144” x 42”	772	856	814	898	856	940	898	982	252	504	84	12W/3H
144” x 48”	820	916	868	964	916	1,012	964	1,060	288	576	96	12W/3H
144” x 54”	856	964	910	1,018	964	1,072	1,018	1,126	324	648	108	12W/5H
144” x 60”	880	1,000	940	1,060	1,000	1,120	1,060	1,180	360	720	120	12W/5H
144” x 72”	1,000	1,144	1,072	1,216	1,144	1,288	1,216	1,360	432	864	144	12W/5H
144” x 84”	1,108	1,276	1,192	1,360	1,276	1,444	1,360	1,528	504	1,008	168	12W/6H
144” x 96”	1,204	1,396	1,300	1,492	1,396	1,588	1,492	1,684	576	1,152	192	12W/6H
144” x 108”	1,342	1,558	1,450	1,666	1,558	1,774	1,666	1,882	648	1,296	216	12W/6H

Imperial - Series IM-2101
OXXO ~ Horizontal Sliding Windows

OXXO

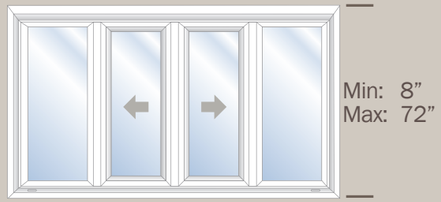


For specialty glass pricing please call our Order Desk

Standard Size	Imperial OXXO Clear over Clear				Imperial OXXO Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54” x 30”	248	270	259	281	270	293	281	304	68	135	23	4W/2H
54” x 36”	284	311	297	324	311	338	324	351	81	162	27	4W/3H
54” x 42”	315	347	331	362	347	378	362	394	95	189	32	4W/3H
54” x 48”	342	378	360	396	378	414	396	432	108	216	36	4W/4H
54” x 54”	365	405	385	425	405	446	425	466	122	243	41	4W/4H
54” x 60”	383	428	405	450	428	473	450	495	135	270	45	4W/4H
54” x 72”	432	486	459	513	486	540	513	567	162	324	54	4W/5H
60” x 30”	263	288	275	300	288	313	300	325	75	150	25	4W/2H
60” x 36”	300	330	315	345	330	360	345	375	90	180	30	4W/3H
60” x 42”	333	368	350	385	368	403	385	420	105	210	35	4W/3H
60” x 48”	360	400	380	420	400	440	420	460	120	240	40	4W/4H
60” x 54”	383	428	405	450	428	473	450	495	135	270	45	4W/4H
60” x 60”	400	450	425	475	450	500	475	525	150	300	50	4W/4H
60” x 72”	450	510	480	540	510	570	540	600	180	360	60	4W/5H
72” x 30”	300	330	315	345	330	360	345	375	90	180	30	8W/2H
72” x 36”	342	378	360	396	378	414	396	432	108	216	36	8W/3H
72” x 42”	378	420	399	441	420	462	441	483	126	252	42	8W/3H
72” x 48”	408	456	432	480	456	504	480	528	144	288	48	8W/4H
72” x 54”	432	486	459	513	486	540	513	567	162	324	54	8W/4H
72” x 60”	450	510	480	540	510	570	540	600	180	360	60	8W/4H
72” x 72”	504	576	540	612	576	648	612	684	216	432	72	8W/5H
84” x 30”	333	368	350	385	368	403	385	420	105	210	35	8W/2H
84” x 36”	378	420	399	441	420	462	441	483	126	252	42	8W/3H
84” x 42”	417	466	441	490	466	515	490	539	147	294	49	8W/3H
84” x 48”	448	504	476	532	504	560	532	588	168	336	56	8W/4H
84” x 54”	473	536	504	567	536	599	567	630	189	378	63	8W/4H
84” x 60”	490	560	525	595	560	630	595	665	210	420	70	8W/4H
84” x 72”	546	630	588	672	630	714	672	756	252	504	84	8W/5H

Imperial - Series IM-2101
OXXO ~ Horizontal Sliding Windows

OXXO



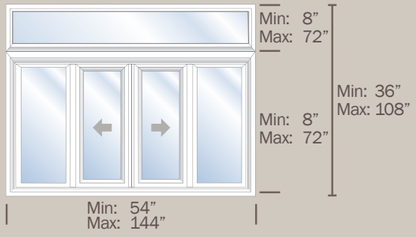
For specialty glass pricing please call our Order Desk

Standard Size	Imperial OXXO Clear over Clear				Imperial OXXO Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
96” x 30”	360	400	380	420	400	440	420	460	120	240	40	8W/2H
96” x 36”	408	456	432	480	456	504	480	528	144	288	48	8W/3H
96” x 42”	448	504	476	532	504	560	532	588	168	336	56	8W/3H
96” x 48”	480	544	512	576	544	608	576	640	192	384	64	8W/4H
96” x 54”	504	576	540	612	576	648	612	684	216	432	72	8W/4H
96” x 60”	520	600	560	640	600	680	640	720	240	480	80	8W/4H
96” x 72”	576	672	624	720	672	768	720	816	288	576	96	8W/5H
108” x 30”	383	428	405	450	428	473	450	495	135	270	45	8W/2H
108” x 36”	432	486	459	513	486	540	513	567	162	324	54	8W/3H
108” x 42”	473	536	504	567	536	599	567	630	189	378	63	8W/3H
108” x 48”	504	576	540	612	576	648	612	684	216	432	72	8W/4H
108” x 54”	527	608	567	648	608	689	648	729	243	486	81	8W/4H
108” x 60”	540	630	585	675	630	720	675	765	270	540	90	8W/4H
108” x 72”	594	702	648	756	702	810	756	864	324	648	108	8W/5H
120” x 30”	525	575	550	600	575	625	600	650	150	300	50	12W/2H
120” x 36”	580	640	610	670	640	700	670	730	180	360	60	12W/3H
120” x 42”	625	695	660	730	695	765	730	800	210	420	70	12W/3H
120” x 48”	660	740	700	780	740	820	780	860	240	480	80	12W/4H
120” x 54”	685	775	730	820	775	865	820	910	270	540	90	12W/4H
120” x 60”	700	800	750	850	800	900	850	950	300	600	100	12W/4H
120” x 72”	760	880	820	940	880	1,000	940	1,060	360	720	120	12W/5H
144” x 30”	610	670	640	700	670	730	700	760	180	360	60	12W/2H
144” x 36”	676	748	712	784	748	820	784	856	216	432	72	12W/3H
144” x 42”	730	814	772	856	814	898	856	940	252	504	84	12W/3H
144” x 48”	772	868	820	916	868	964	916	1,012	288	576	96	12W/4H
144” x 54”	802	910	856	964	910	1,018	964	1,072	324	648	108	12W/4H
144” x 60”	820	940	880	1,000	940	1,060	1,000	1,120	360	720	120	12W/4H
144” x 72”	892	1,036	964	1,108	1,036	1,180	1,108	1,252	432	864	144	12W/5H

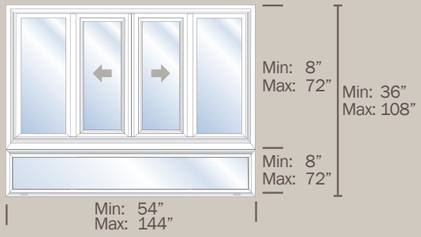
Imperial - Series IM-2101

OXXO T1 or B1 Horizontal Sliding Windows with Picture Windows on Top or Bottom

OXXO T1



OXXO B1



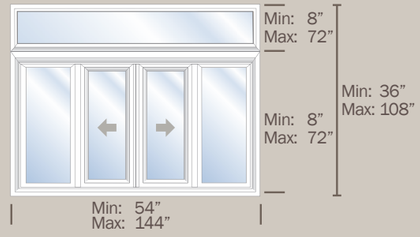
For specialty glass pricing please call our Order Desk

	Imperial OXXO T1 or B1 Clear over Clear				Imperial OXXO T1 or B1 Clear - LowE3							
Standard Size	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
54” x 36”	311	338	324	351	338	365	351	378	81	162	27	4W/3H
54” x 42”	347	378	362	394	378	410	394	425	95	189	32	4W/3H
54” x 48”	378	414	396	432	414	450	432	468	108	216	36	4W/4H
54” x 54”	405	446	425	466	446	486	466	506	122	243	41	4W/4H
54” x 60”	428	473	450	495	473	518	495	540	135	270	45	4W/4H
54” x 72”	486	540	513	567	540	594	567	621	162	324	54	4W/5H
54” x 84”	536	599	567	630	599	662	630	693	189	378	63	4W/7H
54” x 96”	576	648	612	684	648	720	684	756	216	432	72	4W/7H
54” x 108”	648	729	689	770	729	810	770	851	243	486	81	4W/7H
60” x 36”	330	360	345	375	360	390	375	405	90	180	30	4W/3H
60” x 42”	368	403	385	420	403	438	420	455	105	210	35	4W/3H
60” x 48”	400	440	420	460	440	480	460	500	120	240	40	4W/4H
60” x 54”	428	473	450	495	473	518	495	540	135	270	45	4W/4H
60” x 60”	450	500	475	525	500	550	525	575	150	300	50	4W/4H
60” x 72”	510	570	540	600	570	630	600	660	180	360	60	4W/5H
60” x 84”	560	630	595	665	630	700	665	735	210	420	70	4W/7H
60” x 96”	600	680	640	720	680	760	720	800	240	480	80	4W/7H
60” x 108”	675	765	720	810	765	855	810	900	270	540	90	4W/7H
72” x 36”	378	414	396	432	414	450	432	468	108	216	36	8W/3H
72” x 42”	420	462	441	483	462	504	483	525	126	252	42	8W/3H
72” x 48”	456	504	480	528	504	552	528	576	144	288	48	8W/4H
72” x 54”	486	540	513	567	540	594	567	621	162	324	54	8W/4H
72” x 60”	510	570	540	600	570	630	600	660	180	360	60	8W/4H
72” x 72”	576	648	612	684	648	720	684	756	216	432	72	8W/5H
72” x 84”	630	714	672	756	714	798	756	840	252	504	84	8W/7H
72” x 96”	672	768	720	816	768	864	816	912	288	576	96	8W/7H
72” x 108”	756	864	810	918	864	972	918	1,026	324	648	108	8W/7H
84” x 36”	420	462	441	483	462	504	483	525	126	252	42	8W/3H
84” x 42”	466	515	490	539	515	564	539	588	147	294	49	8W/3H
84” x 48”	504	560	532	588	560	616	588	644	168	336	56	8W/4H
84” x 54”	536	599	567	630	599	662	630	693	189	378	63	8W/4H
84” x 60”	560	630	595	665	630	700	665	735	210	420	70	8W/4H
84” x 72”	630	714	672	756	714	798	756	840	252	504	84	8W/5H
84” x 84”	686	784	735	833	784	882	833	931	294	588	98	8W/7H
84” x 96”	728	840	784	896	840	952	896	1,008	336	672	112	8W/7H
84” x 108”	819	945	882	1,008	945	1,071	1,008	1,134	378	756	126	8W/7H

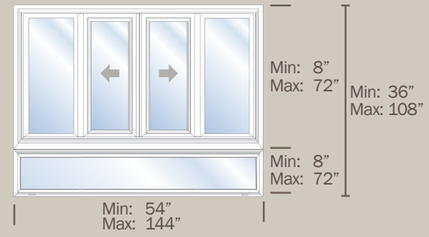
Imperial - Series IM-2101

OXXO T1 or B1 Horizontal Sliding Windows with Picture Windows on Top or Bottom

OXXO T1



OXXO B1



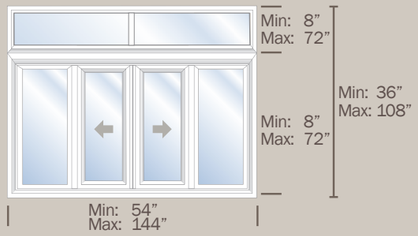
For specialty glass pricing please call our Order Desk

	Imperial OXXO T1 or B1 Clear over Clear				Imperial OXXO T1 or B1 Clear - LowE3							
Standard Size	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
96” x 36”	456	504	480	528	504	552	528	576	144	288	48	8W/3H
96” x 42”	504	560	532	588	560	616	588	644	168	336	56	8W/3H
96” x 48”	544	608	576	640	608	672	640	704	192	384	64	8W/4H
96” x 54”	576	648	612	684	648	720	684	756	216	432	72	8W/4H
96” x 60”	600	680	640	720	680	760	720	800	240	480	80	8W/4H
96” x 72”	672	768	720	816	768	864	816	912	288	576	96	8W/5H
96” x 84”	728	840	784	896	840	952	896	1,008	336	672	112	8W/7H
96” x 96”	768	896	832	960	896	1,024	960	1,088	384	768	128	8W/7H
96” x 108”	864	1,008	936	1,080	1,008	1,152	1,080	1,224	432	864	144	8W/7H
108” x 36”	486	540	513	567	540	594	567	621	162	324	54	8W/3H
108” x 42”	536	599	567	630	599	662	630	693	189	378	63	8W/3H
108” x 48”	576	648	612	684	648	720	684	756	216	432	72	8W/4H
108” x 54”	608	689	648	729	689	770	729	810	243	486	81	8W/4H
108” x 60”	630	720	675	765	720	810	765	855	270	540	90	8W/4H
108” x 72”	702	810	756	864	810	918	864	972	324	648	108	8W/5H
108” x 84”	756	882	819	945	882	1,008	945	1,071	378	756	126	8W/7H
108” x 96”	792	936	864	1,008	936	1,080	1,008	1,152	432	864	144	8W/7H
108” x 108”	891	1,053	972	1,134	1,053	1,215	1,134	1,296	486	972	162	8W/7H
120” x 36”	640	700	670	730	700	760	730	790	180	360	60	12W/3H
120” x 42”	695	765	730	800	765	835	800	870	210	420	70	12W/3H
120” x 48”	740	820	780	860	820	900	860	940	240	480	80	12W/4H
120” x 54”	775	865	820	910	865	955	910	1,000	270	540	90	12W/4H
120” x 60”	800	900	850	950	900	1,000	950	1,050	300	600	100	12W/4H
120” x 72”	880	1,000	940	1,060	1,000	1,120	1,060	1,180	360	720	120	12W/5H
120” x 84”	940	1,080	1,010	1,150	1,080	1,220	1,150	1,290	420	840	140	12W/7H
120” x 96”	980	1,140	1,060	1,220	1,140	1,300	1,220	1,380	480	960	160	12W/7H
120” x 108”	1,090	1,270	1,180	1,360	1,270	1,450	1,360	1,540	540	1,080	180	12W/7H
144” x 36”	748	820	784	856	820	892	856	928	216	432	72	12W/3H
144” x 42”	814	898	856	940	898	982	940	1,024	252	504	84	12W/3H
144” x 48”	868	964	916	1,012	964	1,060	1,012	1,108	288	576	96	12W/4H
144” x 54”	910	1,018	964	1,072	1,018	1,126	1,072	1,180	324	648	108	12W/4H
144” x 60”	940	1,060	1,000	1,120	1,060	1,180	1,120	1,240	360	720	120	12W/4H
144” x 72”	1,036	1,180	1,108	1,252	1,180	1,324	1,252	1,396	432	864	144	12W/5H
144” x 84”	1,108	1,276	1,192	1,360	1,276	1,444	1,360	1,528	504	1,008	168	12W/7H
144” x 96”	1,156	1,348	1,252	1,444	1,348	1,540	1,444	1,636	576	1,152	192	12W/7H
144” x 108”	1,288	1,504	1,396	1,612	1,504	1,720	1,612	1,828	648	1,296	216	12W/7H

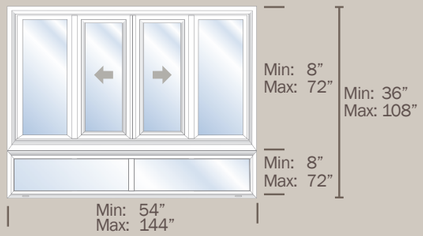
Imperial - Series IM-2101

OXXO T2 or B2 Horizontal Sliding Windows with Picture Windows on Top or Bottom

OXXO T2



OXXO B2



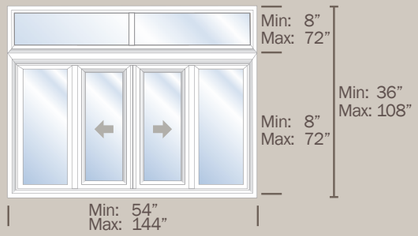
For specialty glass pricing please call our Order Desk

Standard Size	Imperial OXXO T2 or B2 Clear over Clear				Imperial OXXO T2 or B2 Clear - LowE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54” x 36”	270	297	284	311	297	324	311	338	81	162	27	6W/3H
54” x 42”	299	331	315	347	331	362	347	378	95	189	32	6W/3H
54” x 48”	324	360	342	378	360	396	378	414	108	216	36	6W/3H
54” x 54”	344	385	365	405	385	425	405	446	122	243	41	6W/5H
54” x 60”	360	405	383	428	405	450	428	473	135	270	45	6W/5H
54” x 72”	405	459	432	486	459	513	486	540	162	324	54	6W/5H
54” x 84”	441	504	473	536	504	567	536	599	189	378	63	6W/6H
54” x 96”	468	540	504	576	540	612	576	648	216	432	72	6W/6H
54” x 108”	527	608	567	648	608	689	648	729	243	486	81	6W/6H
60” x 36”	285	315	300	330	315	345	330	360	90	180	30	6W/3H
60” x 42”	315	350	333	368	350	385	368	403	105	210	35	6W/3H
60” x 48”	340	380	360	400	380	420	400	440	120	240	40	6W/3H
60” x 54”	360	405	383	428	405	450	428	473	135	270	45	6W/5H
60” x 60”	375	425	400	450	425	475	450	500	150	300	50	6W/5H
60” x 72”	420	480	450	510	480	540	510	570	180	360	60	6W/5H
60” x 84”	455	525	490	560	525	595	560	630	210	420	70	6W/6H
60” x 96”	480	560	520	600	560	640	600	680	240	480	80	6W/6H
60” x 108”	540	630	585	675	630	720	675	765	270	540	90	6W/6H
72” x 36”	324	360	342	378	360	396	378	414	108	216	36	6W/3H
72” x 42”	357	399	378	420	399	441	420	462	126	252	42	6W/3H
72” x 48”	384	432	408	456	432	480	456	504	144	288	48	6W/3H
72” x 54”	405	459	432	486	459	513	486	540	162	324	54	6W/5H
72” x 60”	420	480	450	510	480	540	510	570	180	360	60	6W/5H
72” x 72”	468	540	504	576	540	612	576	648	216	432	72	6W/5H
72” x 84”	504	588	546	630	588	672	630	714	252	504	84	6W/6H
72” x 96”	528	624	576	672	624	720	672	768	288	576	96	6W/6H
72” x 108”	594	702	648	756	702	810	756	864	324	648	108	6W/6H
84” x 36”	357	399	378	420	399	441	420	462	126	252	42	9W/3H
84” x 42”	392	441	417	466	441	490	466	515	147	294	49	9W/3H
84” x 48”	420	476	448	504	476	532	504	560	168	336	56	9W/3H
84” x 54”	441	504	473	536	504	567	536	599	189	378	63	9W/5H
84” x 60”	455	525	490	560	525	595	560	630	210	420	70	9W/5H
84” x 72”	504	588	546	630	588	672	630	714	252	504	84	9W/5H
84” x 84”	539	637	588	686	637	735	686	784	294	588	98	9W/6H
84” x 96”	588	700	644	756	700	812	756	868	336	672	112	9W/6H
84” x 108”	662	788	725	851	788	914	851	977	378	756	126	9W/6H

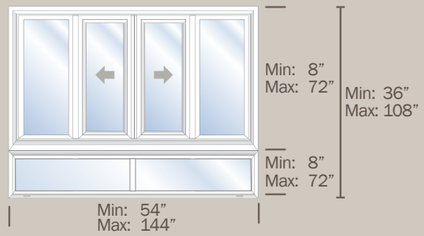
Imperial - Series IM-2101

OXXO T2 or B2 Horizontal Sliding Windows with Picture Windows on Top or Bottom

OXXO T2



OXXO B2



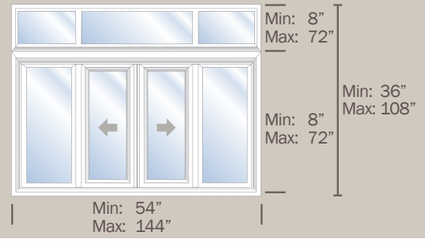
For specialty glass pricing please call our Order Desk

Standard Size	Imperial OXXO T2 or B2 Clear over Clear				Imperial OXXO T2 or B2 Clear - LowE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids				
96” x 36”	384	432	408	456	432	480	456	504	144	288	48	9W/3H
96” x 42”	420	476	448	504	476	532	504	560	168	336	56	9W/3H
96” x 48”	448	512	480	544	512	576	544	608	192	384	64	9W/3H
96” x 54”	468	540	504	576	540	612	576	648	216	432	72	9W/5H
96” x 60”	480	560	520	600	560	640	600	680	240	480	80	9W/5H
96” x 72”	528	624	576	672	624	720	672	768	288	576	96	9W/5H
96” x 84”	588	700	644	756	700	812	756	868	336	672	112	9W/6H
96” x 96”	640	768	704	832	768	896	832	960	384	768	128	9W/6H
96” x 108”	720	864	792	936	864	1,008	936	1,080	432	864	144	9W/6H
108” x 36”	405	459	432	486	459	513	486	540	162	324	54	9W/3H
108” x 42”	441	504	473	536	504	567	536	599	189	378	63	9W/3H
108” x 48”	468	540	504	576	540	612	576	648	216	432	72	9W/3H
108” x 54”	486	567	527	608	567	648	608	689	243	486	81	9W/5H
108” x 60”	495	585	540	630	585	675	630	720	270	540	90	9W/5H
108” x 72”	567	675	621	729	675	783	729	837	324	648	108	9W/5H
108” x 84”	630	756	693	819	756	882	819	945	378	756	126	9W/6H
108” x 96”	684	828	756	900	828	972	900	1,044	432	864	144	9W/6H
108” x 108”	770	932	851	1,013	932	1,094	1,013	1,175	486	972	162	9W/6H
120” x 36”	550	610	580	640	610	670	640	700	180	360	60	12W/3H
120” x 42”	590	660	625	695	660	730	695	765	210	420	70	12W/3H
120” x 48”	620	700	660	740	700	780	740	820	240	480	80	12W/3H
120” x 54”	640	730	685	775	730	820	775	865	270	540	90	12W/5H
120” x 60”	650	750	700	800	750	850	800	900	300	600	100	12W/5H
120” x 72”	730	850	790	910	850	970	910	1,030	360	720	120	12W/5H
120” x 84”	800	940	870	1,010	940	1,080	1,010	1,150	420	840	140	12W/6H
120” x 96”	860	1,020	940	1,100	1,020	1,180	1,100	1,260	480	960	160	12W/6H
120” x 108”	955	1,135	1,045	1,225	1,135	1,315	1,225	1,405	540	1,080	180	12W/6H
144” x 36”	640	712	676	748	712	784	748	820	216	432	72	12W/3H
144” x 42”	688	772	730	814	772	856	814	898	252	504	84	12W/3H
144” x 48”	724	820	772	868	820	916	868	964	288	576	96	12W/3H
144” x 54”	748	856	802	910	856	964	910	1,018	324	648	108	12W/5H
144” x 60”	760	880	820	940	880	1,000	940	1,060	360	720	120	12W/5H
144” x 72”	856	1,000	928	1,072	1,000	1,144	1,072	1,216	432	864	144	12W/5H
144” x 84”	940	1,108	1,024	1,192	1,108	1,276	1,192	1,360	504	1,008	168	12W/6H
144” x 96”	1,012	1,204	1,108	1,300	1,204	1,396	1,300	1,492	576	1,152	192	12W/6H
144” x 108”	1,126	1,342	1,234	1,450	1,342	1,558	1,450	1,666	648	1,296	216	12W/6H

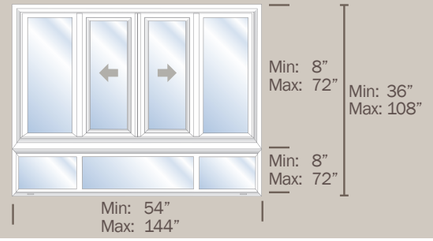
Imperial - Series IM-2101

OXXO T3 or B3 Horizontal Sliding Windows with Picture Windows on Top or Bottom

OXXO T3



OXXO B3



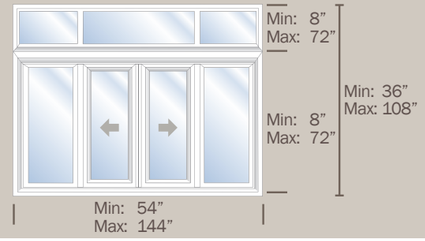
For specialty glass pricing please call our Order Desk

	Imperial OXXO T3 or B3 Clear over Clear				Imperial OXXO T3 or B3 Clear - LowE3							
Standard Size	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
54” x 36”	338	365	351	378	365	392	378	405	81	162	27	4W/3H
54” x 42”	378	410	394	425	410	441	425	457	95	189	32	4W/3H
54” x 48”	414	450	432	468	450	486	468	504	108	216	36	4W/4H
54” x 54”	446	486	466	506	486	527	506	547	122	243	41	4W/4H
54” x 60”	473	518	495	540	518	563	540	585	135	270	45	4W/4H
54” x 72”	540	594	567	621	594	648	621	675	162	324	54	4W/5H
54” x 84”	599	662	630	693	662	725	693	756	189	378	63	4W/7H
54” x 96”	648	720	684	756	720	792	756	828	216	432	72	4W/7H
54” x 108”	729	810	770	851	810	891	851	932	243	486	81	4W/7H
60” x 36”	360	390	375	405	390	420	405	435	90	180	30	4W/3H
60” x 42”	403	438	420	455	438	473	455	490	105	210	35	4W/3H
60” x 48”	440	480	460	500	480	520	500	540	120	240	40	4W/4H
60” x 54”	473	518	495	540	518	563	540	585	135	270	45	4W/4H
60” x 60”	500	550	525	575	550	600	575	625	150	300	50	4W/4H
60” x 72”	570	630	600	660	630	690	660	720	180	360	60	4W/5H
60” x 84”	630	700	665	735	700	770	735	805	210	420	70	4W/7H
60” x 96”	680	760	720	800	760	840	800	880	240	480	80	4W/7H
60” x 108”	765	855	810	900	855	945	900	990	270	540	90	4W/7H
72” x 36”	414	450	432	468	450	486	468	504	108	216	36	8W/3H
72” x 42”	462	504	483	525	504	546	525	567	126	252	42	8W/3H
72” x 48”	504	552	528	576	552	600	576	624	144	288	48	8W/4H
72” x 54”	540	594	567	621	594	648	621	675	162	324	54	8W/4H
72” x 60”	570	630	600	660	630	690	660	720	180	360	60	8W/4H
72” x 72”	648	720	684	756	720	792	756	828	216	432	72	8W/5H
72” x 84”	714	798	756	840	798	882	840	924	252	504	84	8W/7H
72” x 96”	768	864	816	912	864	960	912	1,008	288	576	96	8W/7H
72” x 108”	864	972	918	1,026	972	1,080	1,026	1,134	324	648	108	8W/7H
84” x 36”	462	504	483	525	504	546	525	567	126	252	42	8W/3H
84” x 42”	515	564	539	588	564	613	588	637	147	294	49	8W/3H
84” x 48”	560	616	588	644	616	672	644	700	168	336	56	8W/4H
84” x 54”	599	662	630	693	662	725	693	756	189	378	63	8W/4H
84” x 60”	630	700	665	735	700	770	735	805	210	420	70	8W/4H
84” x 72”	714	798	756	840	798	882	840	924	252	504	84	8W/5H
84” x 84”	784	882	833	931	882	980	931	1,029	294	588	98	8W/7H
84” x 96”	840	952	896	1,008	952	1,064	1,008	1,120	336	672	112	8W/7H
84” x 108”	945	1,071	1,008	1,134	1,071	1,197	1,134	1,260	378	756	126	8W/7H

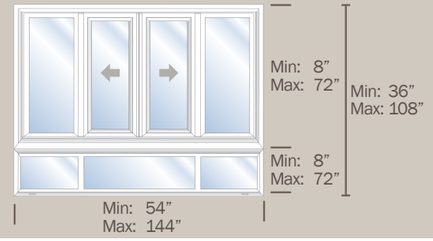
Imperial - Series IM-2101

OXXO T3 or B3 Horizontal Sliding Windows with Picture Windows on Top or Bottom

OXXO T3



OXXO B3

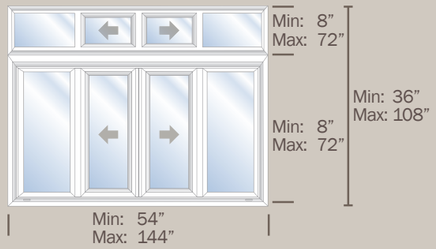


For specialty glass pricing please call our Order Desk

	Imperial OXXO T3 or B3 Clear over Clear				Imperial OXXO T3 or B3 Clear - LowE3							
Standard Size	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1” or 1-3/8” Setback & Block no grids	Nail-on 1” or 1-3/8” Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
96” x 36”	504	552	528	576	552	600	576	624	144	288	48	8W/3H
96” x 42”	560	616	588	644	616	672	644	700	168	336	56	8W/3H
96” x 48”	608	672	640	704	672	736	704	768	192	384	64	8W/4H
96” x 54”	648	720	684	756	720	792	756	828	216	432	72	8W/4H
96” x 60”	680	760	720	800	760	840	800	880	240	480	80	8W/4H
96” x 72”	768	864	816	912	864	960	912	1,008	288	576	96	8W/5H
96” x 84”	840	952	896	1,008	952	1,064	1,008	1,120	336	672	112	8W/7H
96” x 96”	896	1,024	960	1,088	1,024	1,152	1,088	1,216	384	768	128	8W/7H
96” x 108”	1,008	1,152	1,080	1,224	1,152	1,296	1,224	1,368	432	864	144	8W/7H
108” x 36”	540	594	567	621	594	648	621	675	162	324	54	8W/3H
108” x 42”	599	662	630	693	662	725	693	756	189	378	63	8W/3H
108” x 48”	648	720	684	756	720	792	756	828	216	432	72	8W/4H
108” x 54”	689	770	729	810	770	851	810	891	243	486	81	8W/4H
108” x 60”	720	810	765	855	810	900	855	945	270	540	90	8W/4H
108” x 72”	810	918	864	972	918	1,026	972	1,080	324	648	108	8W/5H
108” x 84”	882	1,008	945	1,071	1,008	1,134	1,071	1,197	378	756	126	8W/7H
108” x 96”	936	1,080	1,008	1,152	1,080	1,224	1,152	1,296	432	864	144	8W/7H
108” x 108”	1,053	1,215	1,134	1,296	1,215	1,377	1,296	1,458	486	972	162	8W/7H
120” x 36”	700	760	730	790	760	820	790	850	180	360	60	12W/3H
120” x 42”	765	835	800	870	835	905	870	940	210	420	70	12W/3H
120” x 48”	820	900	860	940	900	980	940	1,020	240	480	80	12W/4H
120” x 54”	865	955	910	1,000	955	1,045	1,000	1,090	270	540	90	12W/4H
120” x 60”	900	1,000	950	1,050	1,000	1,100	1,050	1,150	300	600	100	12W/4H
120” x 72”	1,000	1,120	1,060	1,180	1,120	1,240	1,180	1,300	360	720	120	12W/5H
120” x 84”	1,080	1,220	1,150	1,290	1,220	1,360	1,290	1,430	420	840	140	12W/7H
120” x 96”	1,140	1,300	1,220	1,380	1,300	1,460	1,380	1,540	480	960	160	12W/7H
120” x 108”	1,270	1,450	1,360	1,540	1,450	1,630	1,540	1,720	540	1,080	180	12W/7H
144” x 36”	820	892	856	928	892	964	928	1,000	216	432	72	12W/3H
144” x 42”	898	982	940	1,024	982	1,066	1,024	1,108	252	504	84	12W/3H
144” x 48”	964	1,060	1,012	1,108	1,060	1,156	1,108	1,204	288	576	96	12W/4H
144” x 54”	1,018	1,126	1,072	1,180	1,126	1,234	1,180	1,288	324	648	108	12W/4H
144” x 60”	1,060	1,180	1,120	1,240	1,180	1,300	1,240	1,360	360	720	120	12W/4H
144” x 72”	1,180	1,324	1,252	1,396	1,324	1,468	1,396	1,540	432	864	144	12W/5H
144” x 84”	1,276	1,444	1,360	1,528	1,444	1,612	1,528	1,696	504	1,008	168	12W/7H
144” x 96”	1,348	1,540	1,444	1,636	1,540	1,732	1,636	1,828	576	1,152	192	12W/7H
144” x 108”	1,504	1,720	1,612	1,828	1,720	1,936	1,828	2,044	648	1,296	216	12W/7H

Imperial - Series IM-2101
OXXO2 ~ Horizontal Sliding Windows

OXXO 2

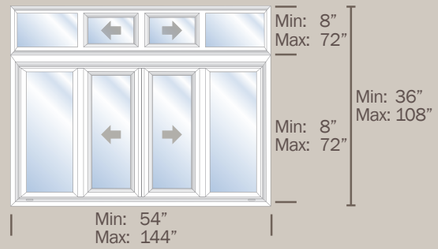


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Standard Size	Imperial OXXO T3 or B3 Clear over Clear				Imperial OXXO T3 or B3 Clear - LowE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
54" x 36"	351	378	365	392	378	405	392	419	81	162	27	4W/3H
54" x 42"	394	425	410	441	425	457	441	473	95	189	32	4W/3H
54" x 48"	432	468	450	486	468	504	486	522	108	216	36	4W/4H
54" x 54"	466	506	486	527	506	547	527	567	122	243	41	4W/4H
54" x 60"	495	540	518	563	540	585	563	608	135	270	45	4W/4H
54" x 72"	567	621	594	648	621	675	648	702	162	324	54	4W/5H
54" x 84"	630	693	662	725	693	756	725	788	189	378	63	4W/7H
54" x 96"	684	756	720	792	756	828	792	864	216	432	72	4W/7H
54" x 108"	770	851	810	891	851	932	891	972	243	486	81	4W/7H
60" x 36"	375	405	390	420	405	435	420	450	90	180	30	4W/3H
60" x 42"	420	455	438	473	455	490	473	508	105	210	35	4W/3H
60" x 48"	460	500	480	520	500	540	520	560	120	240	40	4W/4H
60" x 54"	495	540	518	563	540	585	563	608	135	270	45	4W/4H
60" x 60"	525	575	550	600	575	625	600	650	150	300	50	4W/4H
60" x 72"	600	660	630	690	660	720	690	750	180	360	60	4W/5H
60" x 84"	665	735	700	770	735	805	770	840	210	420	70	4W/7H
60" x 96"	720	800	760	840	800	880	840	920	240	480	80	4W/7H
60" x 108"	810	900	855	945	900	990	945	1,035	270	540	90	4W/7H
72" x 36"	432	468	450	486	468	504	486	522	108	216	36	8W/3H
72" x 42"	483	525	504	546	525	567	546	588	126	252	42	8W/3H
72" x 48"	528	576	552	600	576	624	600	648	144	288	48	8W/4H
72" x 54"	567	621	594	648	621	675	648	702	162	324	54	8W/4H
72" x 60"	600	660	630	690	660	720	690	750	180	360	60	8W/4H
72" x 72"	684	756	720	792	756	828	792	864	216	432	72	8W/5H
72" x 84"	756	840	798	882	840	924	882	966	252	504	84	8W/7H
72" x 96"	816	912	864	960	912	1,008	960	1,056	288	576	96	8W/7H
72" x 108"	918	1,026	972	1,080	1,026	1,134	1,080	1,188	324	648	108	8W/7H
84" x 36"	483	525	504	546	525	567	546	588	126	252	42	8W/3H
84" x 42"	539	588	564	613	588	637	613	662	147	294	49	8W/3H
84" x 48"	588	644	616	672	644	700	672	728	168	336	56	8W/4H
84" x 54"	630	693	662	725	693	756	725	788	189	378	63	8W/4H
84" x 60"	665	735	700	770	735	805	770	840	210	420	70	8W/4H
84" x 72"	756	840	798	882	840	924	882	966	252	504	84	8W/5H
84" x 84"	833	931	882	980	931	1,029	980	1,078	294	588	98	8W/7H
84" x 96"	896	1,008	952	1,064	1,008	1,120	1,064	1,176	336	672	112	8W/7H
84" x 108"	1,008	1,134	1,071	1,197	1,134	1,260	1,197	1,323	378	756	126	8W/7H

Imperial - Series IM-2101
OXXO2 ~ Horizontal Sliding Windows

OXXO 2



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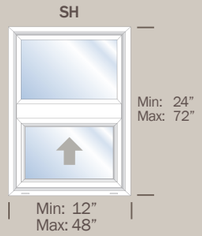
Standard Size	Imperial OXXO T3 or B3 Clear over Clear				Imperial OXXO T3 or B3 Clear - LowE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
96" x 36"	528	576	552	600	576	624	600	648	144	288	48	8W/3H
96" x 42"	588	644	616	672	644	700	672	728	168	336	56	8W/3H
96" x 48"	640	704	672	736	704	768	736	800	192	384	64	8W/4H
96" x 54"	684	756	720	792	756	828	792	864	216	432	72	8W/4H
96" x 60"	720	800	760	840	800	880	840	920	240	480	80	8W/4H
96" x 72"	816	912	864	960	912	1,008	960	1,056	288	576	96	8W/5H
96" x 84"	896	1,008	952	1,064	1,008	1,120	1,064	1,176	336	672	112	8W/7H
96" x 96"	960	1,088	1,024	1,152	1,088	1,216	1,152	1,280	384	768	128	8W/7H
96" x 108"	1,080	1,224	1,152	1,296	1,224	1,368	1,296	1,440	432	864	144	8W/7H
108" x 36"	567	621	594	648	621	675	648	702	162	324	54	8W/3H
108" x 42"	630	693	662	725	693	756	725	788	189	378	63	8W/3H
108" x 48"	684	756	720	792	756	828	792	864	216	432	72	8W/4H
108" x 54"	729	810	770	851	810	891	851	932	243	486	81	8W/4H
108" x 60"	765	855	810	900	855	945	900	990	270	540	90	8W/4H
108" x 72"	864	972	918	1,026	972	1,080	1,026	1,134	324	648	108	8W/5H
108" x 84"	945	1,071	1,008	1,134	1,071	1,197	1,134	1,260	378	756	126	8W/7H
108" x 96"	1,008	1,152	1,080	1,224	1,152	1,296	1,224	1,368	432	864	144	8W/7H
108" x 108"	1,134	1,296	1,215	1,377	1,296	1,458	1,377	1,539	486	972	162	8W/7H
120" x 36"	730	790	760	820	790	850	820	880	180	360	60	12W/3H
120" x 42"	800	870	835	905	870	940	905	975	210	420	70	12W/3H
120" x 48"	860	940	900	980	940	1,020	980	1,060	240	480	80	12W/4H
120" x 54"	910	1,000	955	1,045	1,000	1,090	1,045	1,135	270	540	90	12W/4H
120" x 60"	950	1,050	1,000	1,100	1,050	1,150	1,100	1,200	300	600	100	12W/4H
120" x 72"	1,060	1,180	1,120	1,240	1,180	1,300	1,240	1,360	360	720	120	12W/5H
120" x 84"	1,150	1,290	1,220	1,360	1,290	1,430	1,360	1,500	420	840	140	12W/7H
120" x 96"	1,220	1,380	1,300	1,460	1,380	1,540	1,460	1,620	480	960	160	12W/7H
120" x 108"	1,360	1,540	1,450	1,630	1,540	1,720	1,630	1,810	540	1,080	180	12W/7H
144" x 36"	856	928	892	964	928	1,000	964	1,036	216	432	72	12W/3H
144" x 42"	940	1,024	982	1,066	1,024	1,108	1,066	1,150	252	504	84	12W/3H
144" x 48"	1,012	1,108	1,060	1,156	1,108	1,204	1,156	1,252	288	576	96	12W/4H
144" x 54"	1,072	1,180	1,126	1,234	1,180	1,288	1,234	1,342	324	648	108	12W/4H
144" x 60"	1,120	1,240	1,180	1,300	1,240	1,360	1,300	1,420	360	720	120	12W/4H
144" x 72"	1,252	1,396	1,324	1,468	1,396	1,540	1,468	1,612	432	864	144	12W/5H
144" x 84"	1,360	1,528	1,444	1,612	1,528	1,696	1,612	1,780	504	1,008	168	12W/7H
144" x 96"	1,444	1,636	1,540	1,732	1,636	1,828	1,732	1,924	576	1,152	192	12W/7H
144" x 108"	1,612	1,828	1,720	1,936	1,828	2,044	1,936	2,152	648	1,296	216	12W/7H

Value

Imperial - Series IM-2102

SH
Single Hung





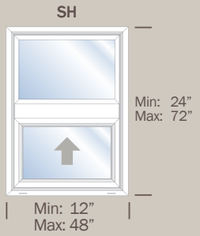
For specialty glass pricing please call our Order Desk

Standard Size	Imperial SH Clear over Clear				Imperial SH Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
12" x 30"	98	103	100	105	103	108	105	110	15	30	5	2W/4H
12" x 36"	105	111	108	114	111	117	114	120	18	36	6	2W/4H
12" x 42"	112	119	116	123	119	126	123	130	21	42	7	2W/4H
12" x 48"	116	124	120	128	124	132	128	136	24	48	8	2W/4H
12" x 54"	122	131	126	135	131	140	135	144	27	54	9	2W/4H
12" x 60"	130	140	135	145	140	150	145	155	30	60	10	2W/4H
12" x 72"	150	162	156	168	162	174	168	180	36	72	12	2W/6H
18" x 30"	113	120	116	124	120	128	124	131	23	45	8	2W/4H
18" x 36"	117	126	122	131	126	135	131	140	27	54	9	2W/4H
18" x 42"	121	131	126	137	131	142	137	147	32	63	11	2W/4H
18" x 48"	126	138	132	144	138	150	144	156	36	72	12	2W/4H
18" x 54"	135	149	142	155	149	162	155	169	41	81	14	2W/4H
18" x 60"	143	158	150	165	158	173	165	180	45	90	15	2W/4H
18" x 72"	162	180	171	189	180	198	189	207	54	108	18	2W/6H
24" x 30"	120	130	125	135	130	140	135	145	30	60	10	2W/4H
24" x 36"	126	138	132	144	138	150	144	156	36	72	12	2W/4H
24" x 42"	133	147	140	154	147	161	154	168	42	84	14	2W/4H
24" x 48"	136	152	144	160	152	168	160	176	48	96	16	2W/4H
24" x 54"	144	162	153	171	162	180	171	189	54	108	18	2W/4H
24" x 60"	150	170	160	180	170	190	180	200	60	120	20	2W/4H
24" x 72"	168	192	180	204	192	216	204	228	72	144	24	2W/6H
30" x 30"	125	138	131	144	138	150	144	156	38	75	13	3W/4H
30" x 36"	143	158	150	165	158	173	165	180	45	90	15	3W/4H
30" x 42"	149	166	158	175	166	184	175	193	53	105	18	3W/4H
30" x 48"	150	170	160	180	170	190	180	200	60	120	20	3W/4H

Value

Imperial - Series IM-2102

SH
Single Hung



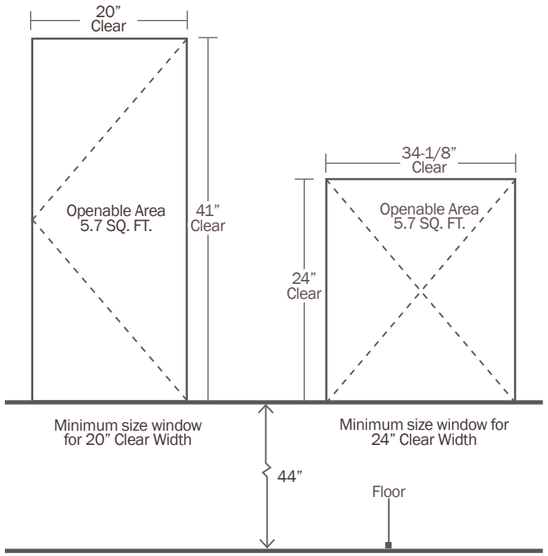


For specialty glass pricing please call our Order Desk

Standard Size	Imperial SH Clear over Clear				Imperial SH Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
30" x 54"	158	180	169	191	180	203	191	214	68	135	23	3W/4H
30" x 60"	163	188	175	200	188	213	200	225	75	150	25	3W/4H
30" x 72"	180	210	195	225	210	240	225	255	90	180	30	3W/6H
36" x 30"	135	150	143	158	150	165	158	173	45	90	15	3W/4H
36" x 36"	144	162	153	171	162	180	171	189	54	108	18	3W/4H
36" x 42"	158	179	168	189	179	200	189	210	63	126	21	3W/4H
36" x 48"	168	192	180	204	192	216	204	228	72	144	24	3W/4H
36" x 54"	176	203	189	216	203	230	216	243	81	162	27	3W/4H
36" x 60"	180	210	195	225	210	240	225	255	90	180	30	3W/4H
36" x 72"	198	234	216	252	234	270	252	288	108	216	36	3W/6H
42" x 30"	149	166	158	175	166	184	175	193	53	105	18	4W/4H
42" x 36"	158	179	168	189	179	200	189	210	63	126	21	4W/4H
42" x 42"	172	196	184	208	196	221	208	233	74	147	25	4W/4H
42" x 48"	182	210	196	224	210	238	224	252	84	168	28	4W/4H
42" x 54"	189	221	205	236	221	252	236	268	95	189	32	4W/4H
42" x 60"	193	228	210	245	228	263	245	280	105	210	35	4W/4H
42" x 72"	210	252	231	273	252	294	273	315	126	252	42	4W/6H
48" x 30"	150	170	160	180	170	190	180	200	60	120	20	4W/4H
48" x 36"	168	192	180	204	192	216	204	228	72	144	24	4W/4H
48" x 42"	182	210	196	224	210	238	224	252	84	168	28	4W/4H
48" x 48"	192	224	208	240	224	256	240	272	96	192	32	4W/4H
48" x 54"	198	234	216	252	234	270	252	288	108	216	36	4W/4H
48" x 60"	200	240	220	260	240	280	260	300	120	240	40	4W/4H
48" x 72"	216	264	240	288	264	312	288	336	144	288	48	4W/6H

IMPERIAL SERIES IM-2102 SINGLE HUNG WINDOWS SH WINDOWS EGRESS CHART SASH IN

Emergency Egress Windows Residential Dwellings

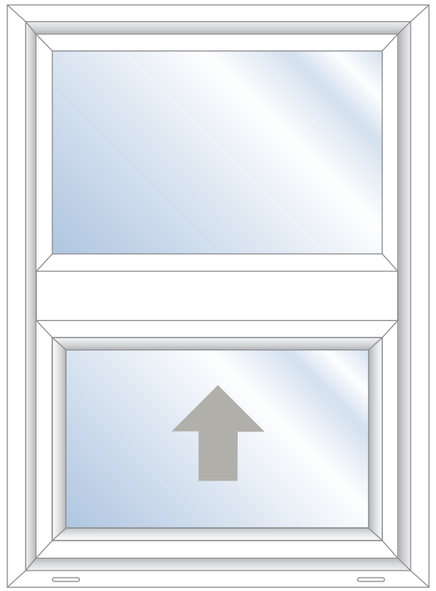


Minimum Sized Rescue or Egress Windows from Sleeping Room

Basement, habitable attics and every sleeping room shall have at least one operable window or door approved for emergency escape or rescue that shall open directly into a public street, public alley, yard or exit court. The emergency door or window shall be operable from the inside to provide a full, clear opening without the use of separate tools.

The intent of this section is that windows be available so that rescue can be effected from the exterior or, alternatively, by which one may escape from that window to the exterior of the building without having to travel through the building itself.

- Escape or rescue windows shall have a minimum net clear openable area of 5.7 square feet. (Except at grade floor, shall have a minimum net clear opening of 5 square feet).
- The minimum net clear openable height dimension shall be 24 inches.
- The minimum net clear openable width dimension shall be 20 inches.
- Finished sill height shall not be more than 44 inches above the floor.



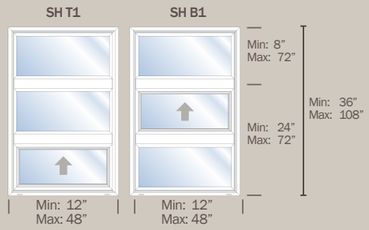
SH WINDOWS EGRESS CHART SASH IN

Height (Inches)

Width (Inches) / MIN Width 24"=20" min width	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	MIN Height 58"= 24" Min height 58	60	62	64	66	68	70	72
12	69	78	86	95	104	113	121	130	139	148	156	165	174	183	191	200	209	218	226	235	244	253	261	270	279
14	85	95	106	117	128	138	149	160	171	181	192	203	214	224	235	246	257	267	278	289	300	310	321	332	343
16	100	113	126	139	151	164	177	190	202	215	228	241	253	266	279	292	304	317	330	343	355	368	381	394	406
18	116	131	146	160	175	190	205	219	234	249	264	278	293	308	323	337	352	367	382	396	411	426	441	455	470
20	132	149	165	182	199	216	232	249	266	283	299	316	333	350	366	383	400	417	433	450	467	484	500	517	534
22	148	166	185	204	223	241	260	279	298	316	335	354	373	391	410	429	448	466	485	504	523	541	560	579	598
24	163	184	205	226	246	267	288	309	329	350	371	392	412	433	454	475	495	516	537	558	578	599	620	641	661
26	179	202	225	247	270	293	316	338	361	384	407	429	452	475	498	520	543	566	589	611	634	657	680	702	725
28	195	220	244	269	294	319	343	368	393	418	442	467	492	517	541	566	591	616	640	665	690	715	739	764	789
30	211	237	264	291	318	344	371	398	425	451	478	505	532	558	585	612	639	665	692	719	746	772	799	826	853
32	226	255	284	313	341	370	399	428	456	485	514	543	571	600	629	658	686	715	744	773	801	830	859	888	916
34	242	273	304	334	365	396	427	457	488	519	550	580	611	642	673	703	734	765	796	826	857	888	919	949	980
36	258	291	323	356	389	422	454	487	520	553	585	618	651	684	716	749	782	815	847	880	913	946	978	1011	1044
38	274	308	343	378	413	447	482	517	552	586	621	656	691	725	760	795	830	864	899	934	969	1003	1038	1073	1108
40	289	326	363	400	436	473	510	547	583	620	657	694	730	767	804	841	877	914	951	988	1024	1061	1098	1135	1171
42	305	344	383	421	460	499	538	576	615	654	693	731	770	809	848	886	925	964	1003	1041	1080	1119	1158	1196	1235
44	321	362	402	443	484	525	565	606	647	688	728	769	810	851	891	932	973	1014	1054	1095	1136	1177	1217	1258	1299
46	337	379	422	465	508	550	593	636	679	721	764	807	850	892	935	978	1021	1063	1106	1149	1192	1234	1277	1320	1363
48	352	397	442	487	531	576	621	666	710	755	800	845	889	934	979	1024	1068	1113	1158	1203	1247	1292	1337	1382	1426

Highlighted sizes meet Egress

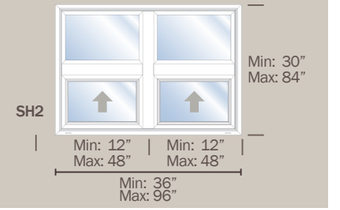
Imperial - Series IM-2102
SH T1 or B1 Single Hung with Picture Window on Top or Bottom



For specialty glass pricing please call our Order Desk

	Imperial SH T1 or B1 Clear over Clear				Imperial SH T1 or B1 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
12" x 54"	140	149	144	153	149	158	153	162	27	54	9	2W/4H
12" x 60"	150	160	155	165	160	170	165	175	30	60	10	2W/4H
12" x 72"	174	186	180	192	186	198	192	204	36	72	12	2W/6H
12" x 84"	196	210	203	217	210	224	217	231	42	84	14	2W/6H
12" x 96"	216	232	224	240	232	248	240	256	48	96	16	2W/8H
12" x 108"	234	252	243	261	252	270	261	279	54	108	18	2W/8H
18" x 54"	155	169	162	176	169	182	176	189	41	81	14	2W/4H
18" x 60"	165	180	173	188	180	195	188	203	45	90	15	2W/4H
18" x 72"	189	207	198	216	207	225	216	234	54	108	18	2W/6H
18" x 84"	210	231	221	242	231	252	242	263	63	126	21	2W/6H
18" x 96"	234	258	246	270	258	282	270	294	72	144	24	2W/8H
18" x 108"	243	270	257	284	270	297	284	311	81	162	27	2W/8H
24" x 54"	162	180	171	189	180	198	189	207	54	108	18	2W/4H
24" x 60"	170	190	180	200	190	210	200	220	60	120	20	2W/4H
24" x 72"	192	216	204	228	216	240	228	252	72	144	24	2W/6H
24" x 84"	217	245	231	259	245	273	259	287	84	168	28	2W/6H
24" x 96"	240	272	256	288	272	304	288	320	96	192	32	2W/8H
24" x 108"	252	288	270	306	288	324	306	342	108	216	36	2W/8H
30" x 54"	174	197	186	208	197	219	208	231	68	135	23	3W/4H
30" x 60"	188	213	200	225	213	238	225	250	75	150	25	3W/4H
30" x 72"	210	240	225	255	240	270	255	285	90	180	30	3W/6H
30" x 84"	228	263	245	280	263	298	280	315	105	210	35	3W/6H
30" x 96"	245	285	265	305	285	325	305	345	120	240	40	3W/8H
30" x 108"	259	304	281	326	304	349	326	371	135	270	45	3W/8H
36" x 54"	189	216	203	230	216	243	230	257	81	162	27	3W/4H
36" x 60"	195	225	210	240	225	255	240	270	90	180	30	3W/4H
36" x 72"	225	261	243	279	261	297	279	315	108	216	36	3W/6H
36" x 84"	242	284	263	305	284	326	305	347	126	252	42	3W/6H
36" x 96"	246	294	270	318	294	342	318	366	144	288	48	3W/8H
36" x 108"	270	324	297	351	324	378	351	405	162	324	54	3W/8H
42" x 54"	205	236	221	252	236	268	252	284	95	189	32	4W/4H
42" x 60"	210	245	228	263	245	280	263	298	105	210	35	4W/4H
42" x 72"	231	273	252	294	273	315	294	336	126	252	42	4W/6H
42" x 84"	245	294	270	319	294	343	319	368	147	294	49	4W/6H
42" x 96"	252	308	280	336	308	364	336	392	168	336	56	4W/8H
42" x 108"	284	347	315	378	347	410	378	441	189	378	63	4W/8H
48" x 54"	216	252	234	270	252	288	270	306	108	216	36	4W/4H
48" x 60"	220	260	240	280	260	300	280	320	120	240	40	4W/4H
48" x 72"	240	288	264	312	288	336	312	360	144	288	48	4W/6H
48" x 84"	252	308	280	336	308	364	336	392	168	336	56	4W/6H
48" x 96"	256	320	288	352	320	384	352	416	192	384	64	4W/8H
48" x 108"	288	360	324	396	360	432	396	468	216	432	72	4W/8H

Imperial - Series IM-2102
SH2
Twin Single Hung Windows

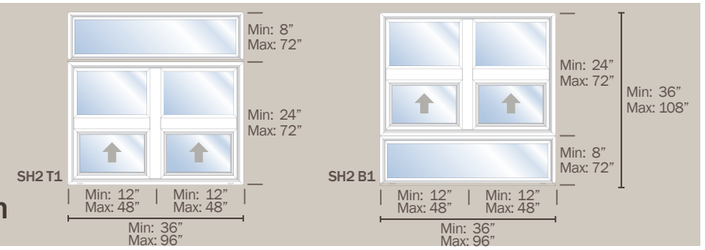


For specialty glass pricing please call our Order Desk

	Imperial SH2 Clear over Clear				Imperial SH2 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
36" x 30"	195	210	203	218	210	225	218	233	45	90	15	4W/4H
36" x 36"	216	234	225	243	234	252	243	261	54	108	18	4W/4H
36" x 42"	231	252	242	263	252	273	263	284	63	126	21	4W/4H
36" x 48"	228	252	240	264	252	276	264	288	72	144	24	4W/4H
36" x 54"	230	257	243	270	257	284	270	297	81	162	27	4W/4H
36" x 60"	240	270	255	285	270	300	285	315	90	180	30	4W/4H
36" x 72"	270	306	288	324	306	342	324	360	108	216	36	4W/6H
42" x 30"	210	228	219	236	228	245	236	254	53	105	18	4W/4H
42" x 36"	221	242	231	252	242	263	252	273	63	126	21	4W/4H
42" x 42"	233	257	245	270	257	282	270	294	74	147	25	4W/4H
42" x 48"	252	280	266	294	280	308	294	322	84	168	28	4W/4H
42" x 54"	268	299	284	315	299	331	315	347	95	189	32	4W/4H
42" x 60"	280	315	298	333	315	350	333	368	105	210	35	4W/4H
42" x 72"	315	357	336	378	357	399	378	420	126	252	42	4W/6H
48" x 30"	220	240	230	250	240	260	250	270	60	120	20	4W/4H
48" x 36"	240	264	252	276	264	288	276	300	72	144	24	4W/4H
48" x 42"	266	294	280	308	294	322	308	336	84	168	28	4W/4H
48" x 48"	288	320	304	336	320	352	336	368	96	192	32	4W/4H
48" x 54"	306	342	324	360	342	378	360	396	108	216	36	4W/4H
48" x 60"	320	360	340	380	360	400	380	420	120	240	40	4W/4H
48" x 72"	360	408	384	432	408	456	432	480	144	288	48	4W/6H
54" x 30"	225	248	236	259	248	270	259	281	68	135	23	6W/4H
54" x 36"	257	284	270	297	284	311	297	324	81	162	27	6W/4H
54" x 42"	284	315	299	331	315	347	331	362	95	189	32	6W/4H
54" x 48"	306	342	324	360	342	378	360	396	108	216	36	6W/4H
54" x 54"	324	365	344	385	365	405	385	425	122	243	41	6W/4H
54" x 60"	338	383	360	405	383	428	405	450	135	270	45	6W/4H
54" x 72"	378	432	405	459	432	486	459	513	162	324	54	6W/6H
60" x 30"	238	263	250	275	263	288	275	300	75	150	25	6W/4H
60" x 36"	270	300	285	315	300	330	315	345	90	180	30	6W/4H
60" x 42"	298	333	315	350	333	368	350	385	105	210	35	6W/4H
60" x 48"	320	360	340	380	360	400	380	420	120	240	40	6W/4H
60" x 54"	338	383	360	405	383	428	405	450	135	270	45	6W/4H
60" x 60"	350	400	375	425	400	450	425	475	150	300	50	6W/4H
60" x 72"	390	450	420	480	450	510	480	540	180	360	60	6W/6H
72" x 30"	270	300	285	315	300	330	315	345	90	180	30	6W/4H
72" x 36"	306	342	324	360	342	378	360	396	108	216	36	6W/4H
72" x 42"	336	378	357	399	378	420	399	441	126	252	42	6W/4H
72" x 48"	360	408	384	432	408	456	432	480	144	288	48	6W/4H
72" x 54"	378	432	405	459	432	486	459	513	162	324	54	6W/4H
72" x 60"	390	450	420	480	450	510	480	540	180	360	60	6W/4H
72" x 72"	432	504	468	540	504	576	540	612	216	432	72	6W/6H
84" x 30"	298	333	315	350	333	368	350	385	105	210	35	8W/4H
84" x 36"	336	378	357	399	378	420	399	441	126	252	42	8W/4H
84" x 42"	368	417	392	441	417	466	441	490	147	294	49	8W/4H
84" x 48"	392	448	420	476	448	504	476	532	168	336	56	8W/4H
84" x 54"	410	473	441	504	473	536	504	567	189	378	63	8W/4H
84" x 60"	420	490	455	525	490	560	525	595	210	420	70	8W/4H
84" x 72"	462	546	504	588	546	630	588	672	252	504	84	8W/6H
96" x 30"	340	380	360	400	380	420	400	440	120	240	40	8W/4H
96" x 36"	384	432	408	456	432	480	456	504	144	288	48	8W/4H
96" x 42"	420	476	448	504	476	532	504	560	168	336	56	8W/4H
96" x 48"	448	512	480	544	512	576	544	608	192	384	64	8W/4H
96" x 54"	468	540	504	576	540	612	576	648	216	432	72	8W/4H
96" x 60"	480	560	520	600	560	640	600	680	240	480	80	8W/4H
96" x 72"	528	624	576	672	624	720	672	768	288	576	96	8W/6H

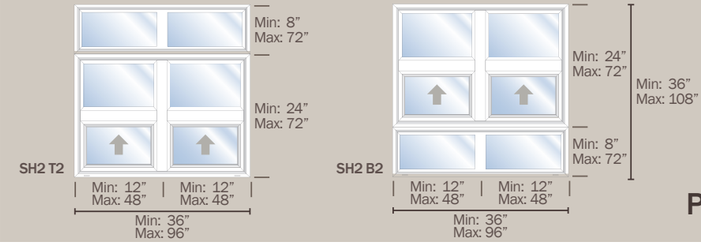
Value

Imperial - Series IM-2102
SH2 - T1 or B1
Imperial Twin Single Hung with Picture Window on Top or Bottom



For specialty glass pricing please call our Order Desk

	Imperial SH2 T1 or B1 Clear over Clear				Imperial SH2 T1 or B1 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
36" x 54"	257	284	270	297	284	311	297	324	81	162	27	4W/5H
36" x 60"	270	300	285	315	300	330	315	345	90	180	30	4W/5H
36" x 72"	306	342	324	360	342	378	360	396	108	216	36	4W/6H
36" x 84"	336	378	357	399	378	420	399	441	126	252	42	4W/6H
36" x 96"	384	432	408	456	432	480	456	504	144	288	48	4W/8H
36" x 108"	432	486	459	513	486	540	513	567	162	324	54	4W/8H
42" x 54"	299	331	315	347	331	362	347	378	95	189	32	4W/5H
42" x 60"	315	350	333	368	350	385	368	403	105	210	35	4W/5H
42" x 72"	357	399	378	420	399	441	420	462	126	252	42	4W/6H
42" x 84"	392	441	417	466	441	490	466	515	147	294	49	4W/6H
42" x 96"	448	504	476	532	504	560	532	588	168	336	56	4W/8H
42" x 108"	504	567	536	599	567	630	599	662	189	378	63	4W/8H
48" x 54"	342	378	360	396	378	414	396	432	108	216	36	4W/5H
48" x 60"	360	400	380	420	400	440	420	460	120	240	40	4W/5H
48" x 72"	408	456	432	480	456	504	480	528	144	288	48	4W/6H
48" x 84"	448	504	476	532	504	560	532	588	168	336	56	4W/6H
48" x 96"	512	576	544	608	576	640	608	672	192	384	64	4W/8H
48" x 108"	576	648	612	684	648	720	684	756	216	432	72	4W/8H
54" x 54"	365	405	385	425	405	446	425	466	122	243	41	6W/5H
54" x 60"	383	428	405	450	428	473	450	495	135	270	45	6W/5H
54" x 72"	432	486	459	513	486	540	513	567	162	324	54	6W/6H
54" x 84"	473	536	504	567	536	599	567	630	189	378	63	6W/6H
54" x 96"	540	612	576	648	612	684	648	720	216	432	72	6W/8H
54" x 108"	608	689	648	729	689	770	729	810	243	486	81	6W/8H
60" x 54"	383	428	405	450	428	473	450	495	135	270	45	6W/5H
60" x 60"	400	450	425	475	450	500	475	525	150	300	50	6W/5H
60" x 72"	450	510	480	540	510	570	540	600	180	360	60	6W/6H
60" x 84"	490	560	525	595	560	630	595	665	210	420	70	6W/6H
60" x 96"	560	640	600	680	640	720	680	760	240	480	80	6W/8H
60" x 108"	630	720	675	765	720	810	765	855	270	540	90	6W/8H
72" x 54"	432	486	459	513	486	540	513	567	162	324	54	6W/5H
72" x 60"	450	510	480	540	510	570	540	600	180	360	60	6W/5H
72" x 72"	504	576	540	612	576	648	612	684	216	432	72	6W/6H
72" x 84"	546	630	588	672	630	714	672	756	252	504	84	6W/6H
72" x 96"	624	720	672	768	720	816	768	864	288	576	96	6W/8H
72" x 108"	702	810	756	864	810	918	864	972	324	648	108	6W/8H
84" x 54"	473	536	504	567	536	599	567	630	189	378	63	8W/5H
84" x 60"	490	560	525	595	560	630	595	665	210	420	70	8W/5H
84" x 72"	546	630	588	672	630	714	672	756	252	504	84	8W/6H
84" x 84"	588	686	637	735	686	784	735	833	294	588	98	8W/6H
84" x 96"	672	784	728	840	784	896	840	952	336	672	112	8W/8H
84" x 108"	756	882	819	945	882	1,008	945	1,071	378	756	126	8W/8H
96" x 54"	540	612	576	648	612	684	648	720	216	432	72	8W/5H
96" x 60"	560	640	600	680	640	720	680	760	240	480	80	8W/5H
96" x 72"	624	720	672	768	720	816	768	864	288	576	96	8W/6H
96" x 84"	672	784	728	840	784	896	840	952	336	672	112	8W/6H
96" x 96"	768	896	832	960	896	1,024	960	1,088	384	768	128	8W/8H
96" x 108"	864	1,008	936	1,080	1,008	1,152	1,080	1,224	432	864	144	8W/8H



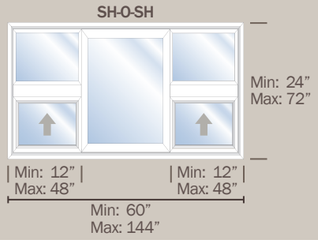
Value

Imperial - Series IM-2102
SH2 - T2 or B2
Imperial Twin Single Hung with Picture Window on Top or Bottom

For specialty glass pricing please call our Order Desk

	Imperial SH2 T2 or B2 Clear over Clear				Imperial SH2 T2 or B2 Clear over LoE3							
Standard Size	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
36" x 54"	270	297	284	311	297	324	311	338	81	162	27	4W/5H
36" x 60"	285	315	300	330	315	345	330	360	90	180	30	4W/5H
36" x 72"	324	360	342	378	360	396	378	414	108	216	36	4W/6H
36" x 84"	357	399	378	420	399	441	420	462	126	252	42	4W/6H
36" x 96"	408	456	432	480	456	504	480	528	144	288	48	4W/8H
36" x 108"	459	513	486	540	513	567	540	594	162	324	54	4W/8H
42" x 54"	315	347	331	362	347	378	362	394	95	189	32	4W/5H
42" x 60"	333	368	350	385	368	403	385	420	105	210	35	4W/5H
42" x 72"	378	420	399	441	420	462	441	483	126	252	42	4W/6H
42" x 84"	417	466	441	490	466	515	490	539	147	294	49	4W/6H
42" x 96"	476	532	504	560	532	588	560	616	168	336	56	4W/8H
42" x 108"	536	599	567	630	599	662	630	693	189	378	63	4W/8H
48" x 54"	360	396	378	414	396	432	414	450	108	216	36	4W/5H
48" x 60"	380	420	400	440	420	460	440	480	120	240	40	4W/5H
48" x 72"	432	480	456	504	480	528	504	552	144	288	48	4W/6H
48" x 84"	476	532	504	560	532	588	560	616	168	336	56	4W/6H
48" x 96"	544	608	576	640	608	672	640	704	192	384	64	4W/8H
48" x 108"	612	684	648	720	684	756	720	792	216	432	72	4W/8H
54" x 54"	385	425	405	446	425	466	446	486	122	243	41	6W/5H
54" x 60"	405	450	428	473	450	495	473	518	135	270	45	6W/5H
54" x 72"	459	513	486	540	513	567	540	594	162	324	54	6W/6H
54" x 84"	504	567	536	599	567	630	599	662	189	378	63	6W/6H
54" x 96"	576	648	612	684	648	720	684	756	216	432	72	6W/8H
54" x 108"	648	729	689	770	729	810	770	851	243	486	81	6W/8H
60" x 54"	405	450	428	473	450	495	473	518	135	270	45	6W/5H
60" x 60"	425	475	450	500	475	525	500	550	150	300	50	6W/5H
60" x 72"	480	540	510	570	540	600	570	630	180	360	60	6W/6H
60" x 84"	525	595	560	630	595	665	630	700	210	420	70	6W/6H
60" x 96"	600	680	640	720	680	760	720	800	240	480	80	6W/8H
60" x 108"	675	765	720	810	765	855	810	900	270	540	90	6W/8H
72" x 54"	459	513	486	540	513	567	540	594	162	324	54	6W/5H
72" x 60"	480	540	510	570	540	600	570	630	180	360	60	6W/5H
72" x 72"	540	612	576	648	612	684	648	720	216	432	72	6W/6H
72" x 84"	588	672	630	714	672	756	714	798	252	504	84	6W/6H
72" x 96"	672	768	720	816	768	864	816	912	288	576	96	6W/8H
72" x 108"	756	864	810	918	864	972	918	1,026	324	648	108	6W/8H
84" x 54"	504	567	536	599	567	630	599	662	189	378	63	8W/5H
84" x 60"	525	595	560	630	595	665	630	700	210	420	70	8W/5H
84" x 72"	588	672	630	714	672	756	714	798	252	504	84	8W/6H
84" x 84"	637	735	686	784	735	833	784	882	294	588	98	8W/6H
84" x 96"	728	840	784	896	840	952	896	1,008	336	672	112	8W/8H
84" x 108"	819	945	882	1,008	945	1,071	1,008	1,134	378	756	126	8W/8H
96" x 54"	576	648	612	684	648	720	684	756	216	432	72	8W/5H
96" x 60"	600	680	640	720	680	760	720	800	240	480	80	8W/5H
96" x 72"	672	768	720	816	768	864	816	912	288	576	96	8W/6H
96" x 84"	728	840	784	896	840	952	896	1,008	336	672	112	8W/6H
96" x 96"	832	960	896	1,024	960	1,088	1,024	1,152	384	768	128	8W/8H
96" x 108"	936	1,080	1,008	1,152	1,080	1,224	1,152	1,296	432	864	144	8W/8H

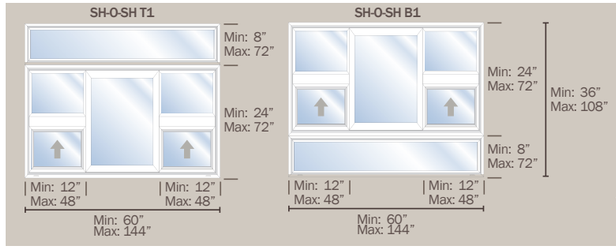
Imperial - Series IM-2102
SH-O-SH
Single Hung Picture Single Hung



For specialty glass pricing please call our Order Desk

Standard Size	Imperial SH-O-SH Clear over Clear				Imperial SH-O-SH Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
60" x 30"	238	263	250	275	263	288	275	300	75	150	25	6W/4H
60" x 36"	270	300	285	315	300	330	315	345	90	180	30	6W/4H
60" x 42"	298	333	315	350	333	368	350	385	105	210	35	6W/4H
60" x 48"	320	360	340	380	360	400	380	420	120	240	40	6W/4H
60" x 54"	338	383	360	405	383	428	405	450	135	270	45	6W/4H
60" x 60"	350	400	375	425	400	450	425	475	150	300	50	6W/4H
60" x 72"	390	450	420	480	450	510	480	540	180	360	60	6W/6H
72" x 30"	270	300	285	315	300	330	315	345	90	180	30	6W/4H
72" x 36"	306	342	324	360	342	378	360	396	108	216	36	6W/4H
72" x 42"	336	378	357	399	378	420	399	441	126	252	42	6W/4H
72" x 48"	360	408	384	432	408	456	432	480	144	288	48	6W/4H
72" x 54"	378	432	405	459	432	486	459	513	162	324	54	6W/4H
72" x 60"	390	450	420	480	450	510	480	540	180	360	60	6W/4H
72" x 72"	432	504	468	540	504	576	540	612	216	432	72	6W/6H
84" x 30"	298	333	315	350	333	368	350	385	105	210	35	9W/4H
84" x 36"	336	378	357	399	378	420	399	441	126	252	42	9W/4H
84" x 42"	368	417	392	441	417	466	441	490	147	294	49	9W/4H
84" x 48"	392	448	420	476	448	504	476	532	168	336	56	9W/4H
84" x 54"	410	473	441	504	473	536	504	567	189	378	63	9W/4H
84" x 60"	420	490	455	525	490	560	525	595	210	420	70	9W/4H
84" x 72"	462	546	504	588	546	630	588	672	252	504	84	9W/6H
96" x 30"	320	360	340	380	360	400	380	420	120	240	40	9W/4H
96" x 36"	360	408	384	432	408	456	432	480	144	288	48	9W/4H
96" x 42"	392	448	420	476	448	504	476	532	168	336	56	9W/4H
96" x 48"	416	480	448	512	480	544	512	576	192	384	64	9W/4H
96" x 54"	432	504	468	540	504	576	540	612	216	432	72	9W/4H
96" x 60"	440	520	480	560	520	600	560	640	240	480	80	9W/4H
96" x 72"	480	576	528	624	576	672	624	720	288	576	96	9W/6H
108" x 30"	338	383	360	405	383	428	405	450	135	270	45	9W/4H
108" x 36"	378	432	405	459	432	486	459	513	162	324	54	9W/4H
108" x 42"	410	473	441	504	473	536	504	567	189	378	63	9W/4H
108" x 48"	432	504	468	540	504	576	540	612	216	432	72	9W/4H
108" x 54"	446	527	486	567	527	608	567	648	243	486	81	9W/4H
108" x 60"	450	540	495	585	540	630	585	675	270	540	90	9W/4H
108" x 72"	500	608	554	662	608	716	662	770	324	648	108	9W/6H
120" x 30"	475	525	500	550	525	575	550	600	150	300	50	12W/4H
120" x 36"	520	580	550	610	580	640	610	670	180	360	60	12W/4H
120" x 42"	555	625	590	660	625	695	660	730	210	420	70	12W/4H
120" x 48"	580	660	620	700	660	740	700	780	240	480	80	12W/4H
120" x 54"	595	685	640	730	685	775	730	820	270	540	90	12W/4H
120" x 60"	600	700	650	750	700	800	750	850	300	600	100	12W/4H
120" x 72"	655	775	715	835	775	895	835	955	360	720	120	12W/6H
144" x 30"	550	610	580	640	610	670	640	700	180	360	60	12W/4H
144" x 36"	604	676	640	712	676	748	712	784	216	432	72	12W/4H
144" x 42"	646	730	688	772	730	814	772	856	252	504	84	12W/4H
144" x 48"	676	772	724	820	772	868	820	916	288	576	96	12W/4H
144" x 54"	694	802	748	856	802	910	856	964	324	648	108	12W/4H
144" x 60"	700	820	760	880	820	940	880	1,000	360	720	120	12W/4H
144" x 72"	766	910	838	982	910	1,054	982	1,126	432	864	144	12W/6H

Imperial - Series IM-2102
SH-O-SH T1 or B1
Single Hung Picture Single Hung with Picture Window on Top or Bottom

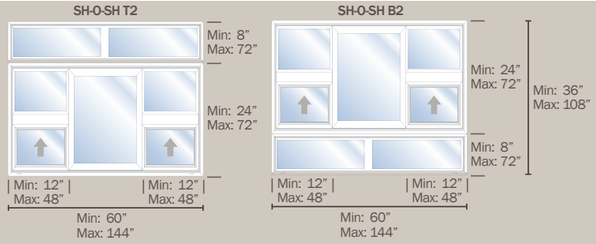


For specialty glass pricing please call our Order Desk

Standard Size	Imperial SH-O-SH T1 or B1 Clear over Clear				Imperial SH-O-SH T1 or B1 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
60"x 54"	360	405	383	428	405	450	428	473	203	338	45	6W/6H
60"x 60"	375	425	400	450	425	475	450	500	225	375	50	6W/6H
60"x 72"	420	480	450	510	480	540	510	570	270	450	60	6W/6H
60"x 84"	455	525	490	560	525	595	560	630	315	525	70	6W/6H
60"x 96"	480	560	520	600	560	640	600	680	360	600	80	6W/6H
60"x 108"	540	630	585	675	630	720	675	765	405	675	90	6W/8H
72"x 54"	405	459	432	486	459	513	486	540	243	405	54	6W/6H
72"x 60"	420	480	450	510	480	540	510	570	270	450	60	6W/6H
72"x 72"	468	540	504	576	540	612	576	648	324	540	72	6W/6H
72"x 84"	504	588	546	630	588	672	630	714	378	630	84	6W/6H
72"x 96"	576	672	624	720	672	768	720	816	432	720	96	6W/6H
72"x108"	648	756	702	810	756	864	810	918	486	810	108	6W/8H
84"x 54"	441	504	473	536	504	567	536	599	284	473	63	9W/6H
84"x 60"	455	525	490	560	525	595	560	630	315	525	70	9W/6H
84"x 72"	504	588	546	630	588	672	630	714	378	630	84	9W/6H
84"x 84"	588	686	637	735	686	784	735	833	441	735	98	9W/6H
84"x 96"	672	784	728	840	784	896	840	952	504	840	112	9W/6H
84"x 108"	756	882	819	945	882	1,008	945	1,071	567	945	126	9W/8H
96"x 54"	468	540	504	576	540	612	576	648	324	540	72	9W/6H
96"x 60"	480	560	520	600	560	640	600	680	360	600	80	9W/6H
96"x 72"	576	672	624	720	672	768	720	816	432	720	96	9W/6H
96"x 84"	672	784	728	840	784	896	840	952	504	840	112	9W/6H
96"x 96"	768	896	832	960	896	1,024	960	1,088	576	960	128	9W/6H
96"x 108"	864	1,008	936	1,080	1,008	1,152	1,080	1,224	648	1,080	144	9W/8H
108"x 54"	486	567	527	608	567	648	608	689	365	608	81	9W/6H
108"x 60"	540	630	585	675	630	720	675	765	405	675	90	9W/6H
108"x 72"	648	756	702	810	756	864	810	918	486	810	108	9W/6H
108"x 84"	756	882	819	945	882	1,008	945	1,071	567	945	126	9W/6H
108"x 96"	864	1,008	936	1,080	1,008	1,152	1,080	1,224	648	1,080	144	9W/6H
108"x 108"	972	1,134	1,053	1,215	1,134	1,296	1,215	1,377	729	1,215	162	9W/8H
120"x 54"	640	730	685	775	730	820	775	865	405	675	90	12W/6H
120"x 60"	700	800	750	850	800	900	850	950	450	750	100	12W/6H
120"x 72"	820	940	880	1,000	940	1,060	1,000	1,120	540	900	120	12W/6H
120"x 84"	940	1,080	1,010	1,150	1,080	1,220	1,150	1,290	630	1,050	140	12W/6H
120"x 96"	1,060	1,220	1,140	1,300	1,220	1,380	1,300	1,460	720	1,200	160	12W/6H
120"x 108"	1,180	1,360	1,270	1,450	1,360	1,540	1,450	1,630	810	1,350	180	12W/8H
144"x 54"	748	856	802	910	856	964	910	1,018	486	810	108	12W/6H
144"x 60"	820	940	880	1,000	940	1,060	1,000	1,120	540	900	120	12W/6H
144"x 72"	964	1,108	1,036	1,180	1,108	1,252	1,180	1,324	648	1,080	144	12W/6H
144"x 84"	1,108	1,276	1,192	1,360	1,276	1,444	1,360	1,528	756	1,260	168	12W/6H
144"x 96"	1,252	1,444	1,348	1,540	1,444	1,636	1,540	1,732	864	1,440	192	12W/6H
144"x 108"	1,396	1,612	1,504	1,720	1,612	1,828	1,720	1,936	972	1,620	216	12W/8H

Value

Imperial - Series IM-2102
SH-O-SH T2 or B2
Single Hung Picture Single Hung with Picture Window on Top or Bottom

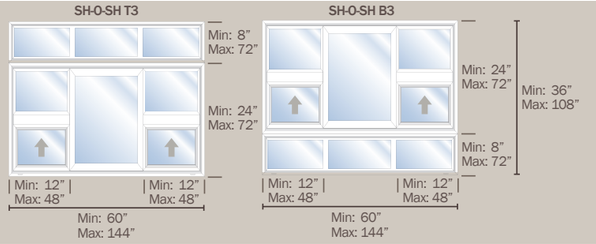


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Standard Size	Imperial SH-O-SH T2 or B2 Clear over Clear				Imperial SH-O-SH T2 or B2 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
60" x 54"	383	428	405	450	428	473	450	495	135	270	45	6W/6H
60" x 60"	400	450	425	475	450	500	475	525	150	300	50	6W/6H
60" x 72"	450	510	480	540	510	570	540	600	180	360	60	6W/6H
60" x 84"	490	560	525	595	560	630	595	665	210	420	70	6W/6H
60" x 96"	520	600	560	640	600	680	640	720	240	480	80	6W/6H
60" x 108"	585	675	630	720	675	765	720	810	270	540	90	6W/8H
72" x 54"	432	486	459	513	486	540	513	567	162	324	54	6W/6H
72" x 60"	450	510	480	540	510	570	540	600	180	360	60	6W/6H
72" x 72"	504	576	540	612	576	648	612	684	216	432	72	6W/6H
72" x 84"	546	630	588	672	630	714	672	756	252	504	84	6W/6H
72" x 96"	624	720	672	768	720	816	768	864	288	576	96	6W/6H
72" x108"	702	810	756	864	810	918	864	972	324	648	108	6W/8H
84" x 54"	473	536	504	567	536	599	567	630	189	378	63	9W/6H
84" x 60"	490	560	525	595	560	630	595	665	210	420	70	9W/6H
84" x 72"	546	630	588	672	630	714	672	756	252	504	84	9W/6H
84" x 84"	637	735	686	784	735	833	784	882	294	588	98	9W/6H
84" x 96"	728	840	784	896	840	952	896	1,008	336	672	112	9W/6H
84" x 108"	819	945	882	1,008	945	1,071	1,008	1,134	378	756	126	9W/8H
96" x 54"	504	576	540	612	576	648	612	684	216	432	72	9W/6H
96" x 60"	520	600	560	640	600	680	640	720	240	480	80	9W/6H
96" x 72"	624	720	672	768	720	816	768	864	288	576	96	9W/6H
96" x 84"	728	840	784	896	840	952	896	1,008	336	672	112	9W/6H
96" x 96"	832	960	896	1,024	960	1,088	1,024	1,152	384	768	128	9W/6H
96" x 108"	936	1,080	1,008	1,152	1,080	1,224	1,152	1,296	432	864	144	9W/8H
108" x 54"	527	608	567	648	608	689	648	729	243	486	81	9W/6H
108" x 60"	585	675	630	720	675	765	720	810	270	540	90	9W/6H
108" x 72"	702	810	756	864	810	918	864	972	324	648	108	9W/6H
108" x 84"	819	945	882	1,008	945	1,071	1,008	1,134	378	756	126	9W/6H
108" x 96"	936	1,080	1,008	1,152	1,080	1,224	1,152	1,296	432	864	144	9W/6H
108" x 108"	1,053	1,215	1,134	1,296	1,215	1,377	1,296	1,458	486	972	162	9W/8H
120" x 54"	685	775	730	820	775	865	820	910	270	540	90	12W/6H
120" x 60"	750	850	800	900	850	950	900	1,000	300	600	100	12W/6H
120" x 72"	880	1,000	940	1,060	1,000	1,120	1,060	1,180	360	720	120	12W/6H
120" x 84"	1,010	1,150	1,080	1,220	1,150	1,290	1,220	1,360	420	840	140	12W/6H
120" x 96"	1,140	1,300	1,220	1,380	1,300	1,460	1,380	1,540	480	960	160	12W/6H
120" x 108"	1,270	1,450	1,360	1,540	1,450	1,630	1,540	1,720	540	1,080	180	12W/8H
144" x 54"	802	910	856	964	910	1,018	964	1,072	324	648	108	12W/6H
144" x 60"	880	1,000	940	1,060	1,000	1,120	1,060	1,180	360	720	120	12W/6H
144" x 72"	1,036	1,180	1,108	1,252	1,180	1,324	1,252	1,396	432	864	144	12W/6H
144" x 84"	1,192	1,360	1,276	1,444	1,360	1,528	1,444	1,612	504	1,008	168	12W/6H
144" x 96"	1,348	1,540	1,444	1,636	1,540	1,732	1,636	1,828	576	1,152	192	12W/6H
144" x 108"	1,504	1,720	1,612	1,828	1,720	1,936	1,828	2,044	648	1,296	216	12W/8H

Value

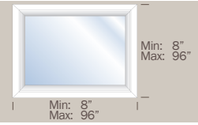
Imperial - Series IM-2102
SH-O-SH T3 or B3
Single Hung Picture Single Hung with Picture Window on Top or Bottom



For specialty glass pricing please call our Order Desk

Standard Size	Imperial SH-O-SH T3 or B3 Clear over Clear				Imperial SH-O-SH T3 or B3 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
60" x 54"	405	450	428	473	450	495	473	518	135	270	45	6W/6H
60" x 60"	425	475	450	500	475	525	500	550	150	300	50	6W/6H
60" x 72"	480	540	510	570	540	600	570	630	180	360	60	6W/6H
60" x 84"	525	595	560	630	595	665	630	700	210	420	70	6W/6H
60" x 96"	560	640	600	680	640	720	680	760	240	480	80	6W/6H
60" x 108"	630	720	675	765	720	810	765	855	270	540	90	6W/8H
72" x 54"	459	513	486	540	513	567	540	594	162	324	54	6W/6H
72" x 60"	480	540	510	570	540	600	570	630	180	360	60	6W/6H
72" x 72"	540	612	576	648	612	684	648	720	216	432	72	6W/6H
72" x 84"	588	672	630	714	672	756	714	798	252	504	84	6W/6H
72" x 96"	672	768	720	816	768	864	816	912	288	576	96	6W/6H
72" x108"	756	864	810	918	864	972	918	1,026	324	648	108	6W/8H
84" x 54"	504	567	536	599	567	630	599	662	189	378	63	9W/6H
84" x 60"	525	595	560	630	595	665	630	700	210	420	70	9W/6H
84" x 72"	588	672	630	714	672	756	714	798	252	504	84	9W/6H
84" x 84"	686	784	735	833	784	882	833	931	294	588	98	9W/6H
84" x 96"	784	896	840	952	896	1,008	952	1,064	336	672	112	9W/6H
84" x 108"	882	1,008	945	1,071	1,008	1,134	1,071	1,197	378	756	126	9W/8H
96" x 54"	540	612	576	648	612	684	648	720	216	432	72	9W/6H
96" x 60"	560	640	600	680	640	720	680	760	240	480	80	9W/6H
96" x 72"	672	768	720	816	768	864	816	912	288	576	96	9W/6H
96" x 84"	784	896	840	952	896	1,008	952	1,064	336	672	112	9W/6H
96" x 96"	896	1,024	960	1,088	1,024	1,152	1,088	1,216	384	768	128	9W/6H
96" x 108"	1,008	1,152	1,080	1,224	1,152	1,296	1,224	1,368	432	864	144	9W/8H
108" x 54"	567	648	608	689	648	729	689	770	243	486	81	9W/6H
108" x 60"	630	720	675	765	720	810	765	855	270	540	90	9W/6H
108" x 72"	756	864	810	918	864	1,460	918	1,026	324	648	108	9W/6H
108" x 84"	882	1,008	945	1,071	1,008	1,134	1,071	1,197	378	756	126	9W/6H
108" x 96"	1,008	1,152	1,080	1,224	1,152	1,296	1,224	1,368	432	864	144	9W/6H
108" x 108"	1,134	1,296	1,215	1,377	1,296	1,458	1,377	1,539	486	972	162	9W/8H
120" x 54"	730	820	775	865	820	910	865	955	270	540	90	12W/6H
120" x 60"	800	900	850	950	900	1,000	950	1,050	300	600	100	12W/6H
120" x 72"	940	1,060	1,000	1,120	1,060	1,180	1,120	1,240	360	720	120	12W/6H
120" x 84"	1,080	1,220	1,150	1,290	1,220	1,360	1,290	1,430	420	840	140	12W/6H
120" x 96"	1,220	1,380	1,300	1,460	1,380	1,540	1,460	1,620	480	960	160	12W/6H
120" x 108"	1,360	1,540	1,450	1,630	1,540	1,720	1,630	1,810	540	1,080	180	12W/8H
144" x 54"	856	964	910	1,018	964	1,072	1,018	1,126	324	648	108	12W/6H
144" x 60"	940	1,060	1,000	1,120	1,060	1,180	1,120	1,240	360	720	120	12W/6H
144" x 72"	1,108	1,252	1,180	1,324	1,252	1,396	1,324	1,468	432	864	144	12W/6H
144" x 84"	1,276	1,444	1,360	1,528	1,444	1,612	1,528	1,696	504	1,008	168	12W/6H
144" x 96"	1,444	1,636	1,540	1,732	1,636	1,828	1,732	1,924	576	1,152	192	12W/6H
144" x 108"	1,612	1,828	1,720	1,936	1,828	2,044	1,936	2,152	648	1,296	216	12W/8H

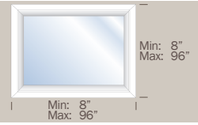
Imperial - Series IM-2106
PW
Picture Window



For specialty glass pricing please call our Order Desk

Standard Size	Imperial PW Clear over Clear				Imperial PW Clear over LoE3							
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
18" x 30"	64	71	68	75	71	79	75	83	23	45	8	2W/2H
18" x 36"	72	81	77	86	81	90	86	95	27	54	9	2W/3H
18" x 42"	79	89	84	95	89	100	95	105	32	63	11	2W/3H
18" x 48"	84	96	90	102	96	108	102	114	36	72	12	2W/3H
18" x 54"	88	101	95	108	101	115	108	122	41	81	14	2W/4H
18" x 60"	90	105	98	113	105	120	113	128	45	90	15	2W/4H
18" x 72"	99	117	108	126	117	135	126	144	54	108	18	2W/5H
18" x 84"	168	189	179	200	252	273	263	284	Price includes Tempered Glass			2W/6H
18" x 96"	192	216	204	228	288	312	300	324				2W/6H
24" x 30"	80	90	85	95	90	100	95	105	30	60	10	2W/2H
24" x 36"	90	102	96	108	102	114	108	120	36	72	12	2W/3H
24" x 42"	98	112	105	119	112	126	119	133	42	84	14	2W/3H
24" x 48"	104	120	112	128	120	136	128	144	48	96	16	2W/3H
24" x 54"	108	126	117	135	126	144	135	153	54	108	18	2W/4H
24" x 60"	110	130	120	140	130	150	140	160	60	120	20	2W/4H
24" x 72"	120	144	132	156	144	168	156	180	72	144	24	2W/5H
24" x 84"	210	238	224	252	322	350	336	364	Price includes Tempered Glass			2W/6H
24" x 96"	240	272	256	288	368	400	384	416				2W/6H
30" x 30"	94	106	100	113	106	119	113	125	38	75	13	3W/2H
30" x 36"	105	120	113	128	120	135	128	143	45	90	15	3W/3H
30" x 42"	114	131	123	140	131	149	140	158	53	105	18	3W/3H
30" x 48"	120	140	130	150	140	160	150	170	60	120	20	3W/3H
30" x 54"	124	146	135	158	146	169	158	180	68	135	23	3W/4H
30" x 60"	125	150	138	163	150	175	163	188	75	150	25	3W/4H
30" x 72"	135	165	150	180	165	195	180	210	90	180	30	3W/5H
30" x 84"	245	280	263	298	385	420	403	438	Price includes Tempered Glass			3W/6H
30" x 96"	280	320	300	340	440	480	460	500				3W/6H
36" x 30"	105	120	113	128	120	135	128	143	45	90	15	3W/2H
36" x 36"	117	135	126	144	135	153	144	162	54	108	18	3W/3H
36" x 42"	126	147	137	158	147	168	158	179	63	126	21	3W/3H
36" x 48"	132	156	144	168	156	180	168	192	72	144	24	3W/3H
36" x 54"	135	162	149	176	162	189	176	203	81	162	27	3W/4H
36" x 60"	140	170	155	185	170	200	185	215	90	180	30	3W/4H
36" x 72"	144	180	162	198	180	216	198	234	108	216	36	3W/5H
36" x 84"	273	315	294	336	441	483	462	504	Price includes Tempered Glass			3W/6H
36" x 96"	312	360	336	384	504	552	528	576				3W/6H
42" x 30"	114	131	123	140	131	149	140	158	53	105	18	4W/2H
42" x 36"	126	147	137	158	147	168	158	179	63	126	21	4W/3H
42" x 42"	135	159	147	172	159	184	172	196	74	147	25	4W/3H
42" x 48"	140	168	154	182	168	196	182	210	84	168	28	4W/3H
42" x 54"	142	173	158	189	173	205	189	221	95	189	32	4W/4H

Imperial - Series IM-2106
PW
Picture Window



For specialty glass pricing please call our Order Desk

Standard Size	Imperial PW Clear over Clear				Imperial PW Clear over LoE3							
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
42" x 60"	145	180	163	198	180	215	198	233	105	210	35	4W/4H
42" x 72"	147	189	168	210	189	231	210	252	126	252	42	4W/5H
42" x 84"	306	355	331	380	502	551	527	576	Price includes Tempered Glass			4W/6H
42" x 96"	350	406	378	434	574	630	602	658				4W/6H
48" x 30"	120	140	130	150	140	160	150	170	60	120	20	4W/2H
48" x 36"	132	156	144	168	156	180	168	192	72	144	24	4W/3H
48" x 42"	140	168	154	182	168	196	182	210	84	168	28	4W/3H
48" x 48"	144	176	160	192	176	208	192	224	96	192	32	4W/3H
48" x 54"	148	184	166	202	184	220	202	238	108	216	36	4W/4H
48" x 60"	150	190	170	210	190	230	210	250	120	240	40	4W/4H
48" x 72"	168	216	192	240	216	264	240	288	144	288	48	4W/5H
48" x 84"	350	406	378	434	574	630	602	658	Price includes Tempered Glass			4W/6H
48" x 96"	400	464	432	496	656	720	688	752				4W/6H
54" x 30"	124	146	135	158	146	169	158	180	68	135	23	5W/2H
54" x 36"	135	162	149	176	162	189	176	203	81	162	27	5W/3H
54" x 42"	142	173	158	189	173	205	189	221	95	189	32	5W/3H
54" x 48"	148	184	166	202	184	220	202	238	108	216	36	5W/3H
54" x 54"	152	192	172	213	192	233	213	253	122	243	41	5W/4H
54" x 60"	158	203	180	225	203	248	225	270	135	270	45	5W/4H
54" x 72"	176	230	203	257	230	284	257	311	162	324	54	5W/5H
60" x 30"	125	150	138	163	150	175	163	188	75	150	25	5W/2H
60" x 36"	140	170	155	185	170	200	185	215	90	180	30	5W/3H
60" x 42"	145	180	163	198	180	215	198	233	105	210	35	5W/3H
60" x 48"	150	190	170	210	190	230	210	250	120	240	40	5W/3H
60" x 54"	158	203	180	225	203	248	225	270	135	270	45	5W/4H
60" x 60"	163	213	188	238	213	263	238	288	150	300	50	5W/4H
60" x 72"	375	435	405	465	615	675	645	705	Price includes Tempered Glass			5W/5H
72" x 30"	135	165	150	180	165	195	180	210	90	180	30	6W/2H
72" x 36"	144	180	162	198	180	216	198	234	108	216	36	6W/3H
72" x 42"	147	189	168	210	189	231	210	252	126	252	42	6W/3H
72" x 48"	168	216	192	240	216	264	240	288	144	288	48	6W/3H
72" x 54"	176	230	203	257	230	284	257	311	162	324	54	6W/4H
72" x 60"	375	435	405	465	615	675	645	705	Price includes Tempered Glass			6W/4H
84" x 30"	245	280	263	298	385	420	403	438	Price includes Tempered Glass			7W/2H
84" x 36"	273	315	294	336	441	483	462	504				7W/3H
84" x 42"	306	355	331	380	502	551	527	576				7W/3H
84" x 48"	350	406	378	434	574	630	602	658				7W/3H
96" x 30"	280	320	300	340	440	480	460	500	Price includes Tempered Glass			7W/2H
96" x 36"	312	360	336	384	504	552	528	576				7W/3H
96" x 42"	350	406	378	434	574	630	602	658				7W/3H
96" x 48"	400	464	432	496	656	720	688	752				7W/3H

Imperial - Series IM-2106
PW2
Picture Window 2



For specialty glass pricing please call our Order Desk

Standard Size	Imperial PW 2 Clear over Clear				Imperial PW 2 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
30"X 60"	150	175	165	190	175	200	190	215	75	150	25	3W4H
30"X 72"	162	192	180	210	192	222	210	240	90	180	30	3W4H
30"X 84"	168	203	189	224	203	238	224	259	105	210	35	3W6H
30"X 96"	192	232	216	256	232	272	256	296	120	240	40	3W6H
30"X 108"	216	261	243	288	261	306	288	333	135	270	45	3W8H
30"X 120"	240	290	270	320	290	340	320	370	150	300	50	3W8H
30"X 132"	264	319	297	352	319	374	352	407	165	330	55	3W10H
30"X 144"	288	348	324	384	348	408	384	444	180	360	60	3W10H
36"X 60"	167	197	185	215	197	227	215	245	90	180	30	3W4H
36"X 72"	173	209	194	230	209	245	230	266	108	216	36	3W4H
36"X 84"	176	218	202	244	218	260	244	286	126	252	42	3W6H
36"X 96"	202	250	230	278	250	298	278	326	144	288	48	3W6H
36"X 108"	227	281	259	313	281	335	313	367	162	324	54	3W8H
36"X 120"	252	312	288	348	312	372	348	408	180	360	60	3W8H
36"X 132"	277	343	317	383	343	409	383	449	198	396	66	3W10H
36"X 144"	302	374	346	418	374	446	418	490	216	432	72	3W10H
42"X 60"	174	209	195	230	209	244	230	265	105	210	35	4W4H
42"X 72"	176	218	202	244	218	260	244	286	126	252	42	4W4H
42"X 84"	191	240	221	270	240	289	270	319	147	294	49	4W6H
42"X 96"	218	274	252	308	274	330	308	364	168	336	56	4W6H
42"X 108"	246	309	284	347	309	372	347	410	189	378	63	4W8H
42"X 120"	273	343	315	385	343	413	385	455	210	420	70	4W8H
42"X 132"	300	377	347	424	377	454	424	501	231	462	77	4W10H
42"X 144"	328	412	378	462	412	496	462	546	252	504	84	4W10H
48"X 60"	180	220	204	244	220	260	244	284	120	240	40	4W4H
48"X 72"	202	250	230	278	250	298	278	326	144	288	48	4W4H
48"X 84"	218	274	252	308	274	330	308	364	168	336	56	4W6H
48"X 96"	250	314	288	352	314	378	352	416	192	384	64	4W6H
48"X 108"	281	353	324	396	353	425	396	468	216	432	72	4W8H
48"X 120"	312	392	360	440	392	472	440	520	240	480	80	4W8H
48"X 132"	343	431	396	484	431	519	484	572	264	528	88	4W10H
48"X 144"	374	470	432	528	470	566	528	624	288	576	96	4W10H
54"X 60"	189	234	216	261	234	279	261	306	135	270	45	5W4H
54"X 72"	211	265	243	297	265	319	297	351	162	324	54	5W4H
54"X 84"	246	309	284	347	309	372	347	410	189	378	63	5W6H
54"X 96"	281	353	324	396	353	425	396	468	216	432	72	5W6H
54"X 108"	316	397	365	446	397	478	446	527	243	486	81	5W8H
54"X 120"	351	441	405	495	441	531	495	585	270	540	90	5W8H
54"X 132"	386	485	446	545	485	584	545	644	297	594	99	5W10H
54"X 144"	421	529	486	594	529	637	594	702	324	648	108	5W10H
60"x 30"	150	175	165	190	175	200	190	215	75	150	25	5W2H
60"x 36"	167	197	185	215	197	227	215	245	90	180	30	5W2H
60"x 42"	174	209	195	230	209	244	230	265	105	210	35	5W2H
60"x 48"	180	220	204	244	220	260	244	284	120	240	40	5W4H
60"x 54"	189	234	216	261	234	279	261	306	135	270	45	5W4H
60"x 60"	195	245	225	275	245	295	275	325	150	300	50	5W4H
60"x 72"	234	294	270	330	294	354	330	390	180	360	60	5W4H
60"x 84"	273	343	315	385	343	413	385	455	210	420	70	5W6H
60"x 96"	312	392	360	440	392	472	440	520	240	480	80	5W6H
60"x 108"	351	441	405	495	441	531	495	585	270	540	90	5W8H
60"x 120"	390	490	450	550	490	590	550	650	300	600	100	5W8H
72"x 30"	162	192	180	210	192	222	210	240	90	180	30	6W2H
72"x 36"	173	209	194	230	209	245	230	266	108	216	36	6W2H

Imperial - Series IM-2106
PW2
Picture Window 2



For specialty glass pricing please call our Order Desk

Standard Size	Imperial PW 2 Clear over Clear				Imperial PW 2 Clear over LoE3				Clear Tempered add-on	LoE3 Tempered add-on	Bronze add-on	Suggested Colonial grid pattern
	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids	Nail-on 1" or 1-3/8" Setback & Block no grids	Nail-on 1" or 1-3/8" Setback & Block with grids	Retrofit no grids	Retrofit with grids				
72"x 42"	176	218	202	244	218	260	244	286	126	252	42	6W2H
72"x 48"	202	250	230	278	250	298	278	326	144	288	48	6W4H
72"x 54"	211	265	243	297	265	319	297	351	162	324	54	6W4H
72"x 60"	234	294	270	330	294	354	330	390	180	360	60	6W4H
72"x 72"	281	353	324	396	353	425	396	468	216	432	72	6W4H
72"x 84"	328	412	378	462	412	496	462	546	252	504	84	6W6H
72"x 96"	374	470	432	528	470	566	528	624	288	576	96	6W6H
72"x 108"	421	529	486	594	529	637	594	702	324	648	108	6W8H
72"x 120"	468	588	540	660	588	708	660	780	360	720	120	6W8H
84"x 30"	168	203	189	224	203	238	224	259	105	210	35	6W2H
84"x 36"	176	218	202	244	218	260	244	286	126	252	42	6W2H
84"x 42"	191	240	221	270	240	289	270	319	147	294	49	6W2H
84"x 48"	218	274	252	308	274	330	308	364	168	336	56	6W4H
84"x 54"	246	309	284	347	309	372	347	410	189	378	63	6W4H
84"x 60"	273	343	315	385	343	413	385	455	210	420	70	6W4H
84"x 72"	328	412	378	462	412	496	462	546	252	504	84	6W4H
84"x 84"	382	480	441	539	480	578	539	637	294	588	98	6W6H
84"x 96"	437	549	504	616	549	661	616	728	336	672	112	6W6H
96"x 30"	192	232	216	256	232	272	256	296	120	240	40	8W2H
96"x 36"	202	250	230	278	250	298	278	326	144	288	48	8W2H
96"x 42"	218	274	252	308	274	330	308	364	168	336	56	8W2H
96"x 48"	250	314	288	352	314	378	352	416	192	384	64	8W4H
96"x 54"	281	353	324	396	353	425	396	468	216	432	72	8W4H
96"x 60"	312	392	360	440	392	472	440	520	240	480	80	8W4H
96"x 72"	374	470	432	528	470	566	528	624	288	576	96	8W4H
96"x 84"	437	549	504	616	549	661	616	728	336	672	112	8W6H
108"x 30"	216	261	243	288	261	306	288	333	135	270	45	8W2H
108"x 36"	227	281	259	313	281	335	313	367	162	324	54	8W2H
108"x 42"	246	309	284	347	309	372	347	410	189	378	63	8W2H
108"x 48"	281	353	324	396	353	425	396	468	216	432	72	8W4H
108"x 54"	316	397	365	446	397	478	446	527	243	486	81	8W4H
108"x 60"	351	441	405	495	441	531	495	585	270	540	90	8W4H
108"x 72"	421	529	486	594	529	637	594	702	324	648	108	8W4H
120"x 30"	240	290	270	320	290	340	320	370	150	300	50	10W2H
120"x 36"	252	312	288	348	312	372	348	408	180	360	60	10W2H
120"x 42"	273	343	315	385	343	413	385	455	210	420	70	10W2H
120"x 48"	312	392	360	440	392	472	440	520	240	480	80	10W4H
120"x 54"	351	441	405	495	441	531	495	585	270	540	90	10W4H
120"x 60"	390	490	450	550	490	590	550	650	300	600	100	10W4H
120"x 72"	468	588	540	660	588	708	660	780	360	720	120	10W4H
132"x 30"	264	319	297	352	319	374	352	407	165	330	55	10W2H
132"x 36"	277	343	317	383	343	409	383	449	198	396	66	10W2H
132"x 42"	300	377	347	424	377	454	424	501	231	462	77	10W2H
132"x 48"	343	431	396	484	431	519	484	572	264	528	88	10W4H
132"x 54"	386	485	446	545	485	584	545	644	297	594	99	10W4H
132"x 60"	429	539	495	605	539	649	605	715	330	660	110	10W4H
144"x 30"	288	348	324	384	348	408	384	444	180	360	60	10W2H
144"x 36"	302	374	346	418	374	446	418	490	216	432	72	10W2H
144"x 42"	328	412	378	462	412	496	462	546	252	504	84	10W2H
144"x 48"	374	470	432	528	470	566	528	624	288	576	96	10W4H
144"x 54"	421	529	486	594	529	637	594	702	324	648	108	10W4H
144"x 60"	468	588	540	660	588	708	660	780	360	720	120	10W4H

Imperial - Series IM-2106
PW
Picture Window

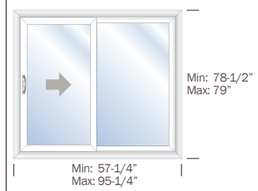
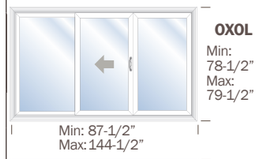
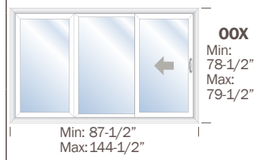
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IMPERIAL PICTURE WINDOWS AVAILABLE SIZES

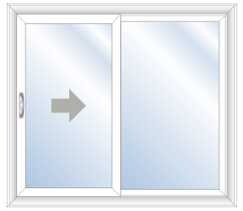
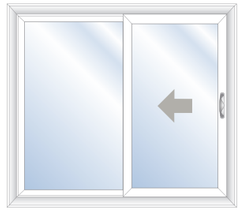
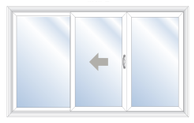
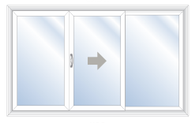
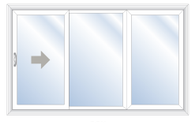
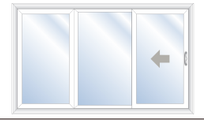
WINDOW WIDTH IN INCHES	WINDOW HEIGHT IN INCHES							
	12	24	36	48	60	72	84	96
12	12x12	12x24	12x36	12x48	12x60	12x72	12x84	12x96
24	24x12	24x24	24x36	24x48	24x60	24x72	24x84	24x96
36	36x12	36x24	36x36	36x48	36x60	36x72	36x84	36x96
48	48x12	48x24	48x36	48x48	48x60	48x72	36x84	48x96
60	60x12	60x24	60x36	60x48	60x60	60x72		
72	72x12	72x24	72x36	72x48	72x60			
84	84x12	84x24	84x36	84x48				
96	96x12	96x24	96x48					

Highlighted sizes feature Tempered Glass

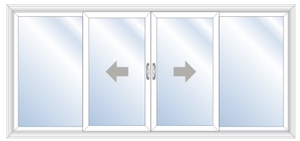
Imperial - Series IM-2121
Sliding Patio Door
Standard Sizes

View From Outside	Call Out	Standard	Sliding Patio Door Clear over Clear: Nail-on 1" or 1-3/8 Setback & Block no grids	Nail-on 1" or 1-3/8 Setback & Block with grids	Retro Fit no grids	Retro Fit With Grids	Sliding Patio Door Clear over LoE3: Nail-on 1" or 1-3/8 Setback & Block no grids	Nail-on 1" or 1-3/8 Setback & Block with grids	Retro Fit no grids	Retro Fit with grids	Suggested Colonial grid pattern
Imperial SLD: Two Panel Sliding Patio Doors **XO and OX** Sliding Patio Door  	41067	57-1/4" x 78 1/2"	550	600	650	700	650	700	750	800	6W/5H
	5068	58-00" x 79 1/2"	580	630	680	730	680	730	780	830	6W/5H
	5068	59 1/4" x 79 1/2"	580	630	680	730	680	730	780	830	6W/5H
	51067	68-00" x 78 1/2"	600	650	700	750	750	800	850	900	6W/5H
	51067	69 1/4" x 78 1/2"	600	650	700	750	750	800	850	900	6W/5H
	6068	70-00" x 79 1/2"	650	700	750	800	800	850	900	950	6W/5H
	6068	71 1/4" x 79 1/2"	650	700	750	800	800	850	900	950	6W/5H
	71067	92-00" x 78 1/2"	700	800	800	900	900	1,000	1,000	1,100	6W/5H
	71067	93 1/4" x 78 1/2"	700	800	800	900	900	1,000	1,000	1,100	6W/5H
	8068	94-00" x 79 1/2"	730	830	830	930	980	1,080	1,080	1,180	8W/5H
	8068	95 1/4" x 79 1/2"	730	830	830	930	980	1,080	1,080	1,180	8W/5H
Imperial SLD: Three Panel Sliding Patio Doors OXOL, OXOR, OOX, XOO Sliding Patio Door **OXOL**  **OOX**  	7367	87-1/2" x 78 1/2"	900	1,000	1,050	1,150	1,050	1,150	1,200	1,300	9W/5H
	7568	88-5/8" x 79 1/2"	950	1,050	1,100	1,200	1,100	1,200	1,250	1,350	9W/5H
	7568	90-1/2" x 79 1/2"	950	1,050	1,100	1,200	1,100	1,200	1,250	1,350	9W/5H
	8867	103-5/8" x 78 1/2"	1,000	1,100	1,150	1,250	1,200	1,300	1,350	1,450	9W/5H
	8867	105-1/2" x 78 1/2"	1,000	1,100	1,150	1,250	1,200	1,300	1,350	1,450	9W/5H
	8968	106-5/8" x 79 1/2"	1,050	1,150	1,200	1,300	1,250	1,350	1,400	1,500	9W/5H
	8968	108-1/2" x 79 1/2"	1,050	1,150	1,200	1,300	1,250	1,350	1,400	1,500	9W/5H
	11867	139-5/8" x 78 1/2"	1,150	1,300	1,300	1,450	1,400	1,550	1,550	1,700	9W/5H
	11867	141-1/2" x 78 1/2"	1,150	1,300	1,300	1,450	1,400	1,550	1,550	1,700	9W/5H
	12068	142-5/8" x 79 1/2"	1,250	1,400	1,400	1,550	1,500	1,650	1,650	1,800	12W/5H
	12068	144-1/2" x79 1/2"	1,250	1,400	1,400	1,550	1,500	1,650	1,650	1,800	12W/5H
Imperial SLD: Four Panel Sliding Patio Doors **OXXO** Sliding Patio Door  	9567	113-00" x 78 1/2"	1,150	1,250	1,300	1,400	1,400	1,500	1,550	1,650	12W/5H
	9868	114-1/2" x 79 1/2"	1,200	1,300	1,350	1,450	1,450	1,550	1,600	1,700	12W/5H
	9868	117-00" x 79 1/2"	1,200	1,350	1,350	1,500	1,450	1,600	1,600	1,750	12W/5H
	11567	134-1/2" x 78 1/2"	1,250	1,400	1,400	1,550	1,550	1,700	1,700	1,850	12W/5H
	11567	137-00" x 78 1/2"	1,250	1,400	1,400	1,550	1,550	1,700	1,700	1,850	12W/5H
	11968	138-1/2" x 79 1/2"	1,300	1,450	1,450	1,600	1,600	1,750	1,750	1,900	12W/5H
	11968	141-00" x 79 1/2"	1,300	1,450	1,450	1,600	1,600	1,750	1,750	1,900	12W/5H
	15567	182-1/2" x 78 1/2"	1,600	1,800	1,800	2,000	1,950	2,150	2,150	2,350	16W/5H
	15567	185-00" x 78 1/2"	1,600	1,800	1,800	2,000	1,950	2,150	2,150	2,350	16W/5H
	15968	186-1/2" x 79 1/2"	1,650	1,850	1,850	2,050	2,000	2,200	2,200	2,400	16W/5H
	15968	189-00" x 79 1/2"	1,650	1,850	1,850	2,050	2,000	2,200	2,200	2,400	16W/5H

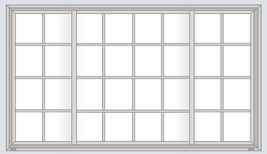
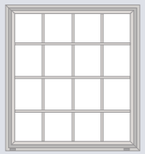
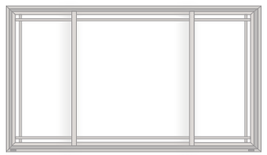
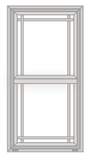
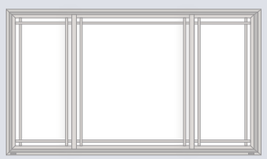
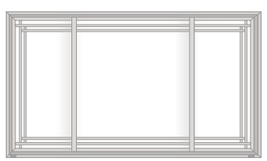
Imperial - Series IM-2121
Sliding Patio Door
Custom Sizes

View From Outside	Custom Size	Sliding Patio Door Clear over Clear: Nail-on 1" or 1-3/8 Setback & Block no grids	Nail-on 1" or 1-3/8 Setback & Block with grids	Retrofit no grids	Retrofit with grids	Sliding Patio Door Clear over LoE3: Nail-on 1" or 1-3/8 Setback & Block no grids	Nail-on 1" or 1-3/8 Setback & Block with grids	Retrofit no grids	Retrofit with grids	Suggested Colonial grid pattern
Imperial SLD: Two Panel Sliding Patio Doors XO OX XO  OX 	60" x 80"	800	850	900	950	900	950	1,000	1,050	6W/5H
	60" x 96"	900	950	1,000	1,050	1,000	1,050	1,100	1,150	6W/6H
	60" x 108"	1,700	1,800	1,900	2,000	1,850	1,950	2,050	2,150	6W/7H
	72" x 80"	850	950	950	1,050	1,000	1,100	1,100	1,200	6W/5H
	72" x 96"	950	1,050	1,050	1,150	1,100	1,200	1,200	1,300	6W/6H
	72" x 108"	1,800	1,900	2,000	2,100	2,000	2,100	2,200	2,300	6W/7H
	84" x 80"	900	1,000	1,000	1,100	1,050	1,150	1,150	1,250	6W/5H
	84" x 96"	1,000	1,100	1,100	1,200	1,150	1,250	1,250	1,350	6W/6H
	84" x 108"	1,850	2,000	2,050	2,200	2,150	2,300	2,350	2,500	6W/7H
	96" x 80"	950	1,050	1,050	1,150	1,200	1,300	1,300	1,400	8W/5H
	96" x 96"	1,050	1,150	1,150	1,250	1,300	1,400	1,400	1,500	8W/6H
	96" x 108"	1,900	2,050	2,100	2,250	2,200	2,350	2,400	2,550	8W/7H
Imperial SLD: hree Panel Sliding Patio Doors OXOL OXOR XOO OOX OXO L  OXO R  XOO  OOX 	90" x 80"	1,300	1,400	1,450	1,550	1,450	1,550	1,600	1,700	9W/5H
	90" x 96"	1,400	1,500	1,550	1,650	1,550	1,650	1,700	1,800	9W/6H
	90" x 108"	2,600	2,800	2,850	3,050	2,800	3,000	3,050	3,250	9W/7H
	108" x 80"	1,400	1,500	1,550	1,650	1,600	1,700	1,750	1,850	9W/5H
	108" x 96"	1,500	1,600	1,650	1,750	1,700	1,800	1,850	1,950	9W/6H
	108" x 108"	2,700	2,900	3,000	3,200	2,950	3,150	3,250	3,450	9W/7H
	126" x 80"	1,450	1,550	1,600	1,700	1,650	1,750	1,800	1,900	9W/5H
	126" x 96"	1,550	1,650	1,700	1,800	1,750	1,850	1,900	2,000	9W/6H
	126" x 108"	2,800	3,000	3,100	3,300	3,100	3,300	3,400	3,600	9W/7H
	144" x 80"	1,600	1,750	1,750	1,900	1,850	2,000	2,000	2,150	12W/5H
	144" x 96"	1,700	1,900	1,850	2,050	2,000	2,200	2,150	2,350	12W/6H
	144" x 108"	2,900	3,100	3,200	3,400	3,200	3,400	3,500	3,700	12W/7H

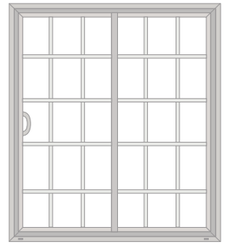
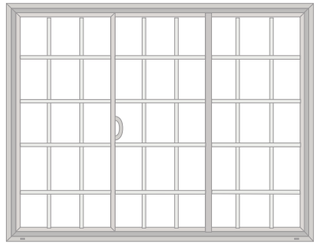
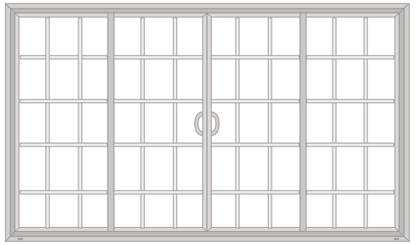
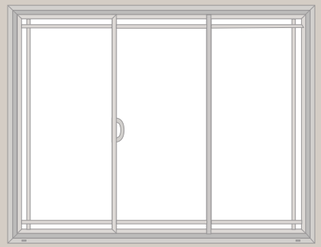
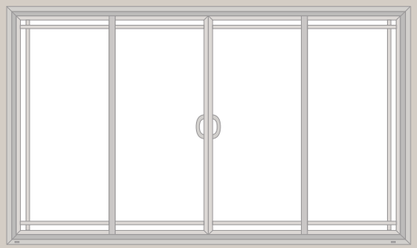
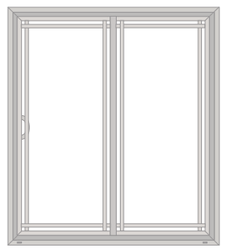
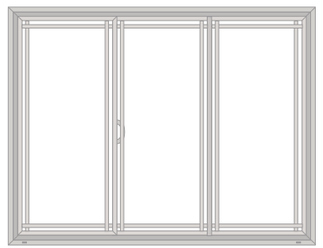
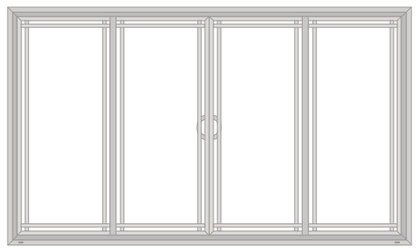
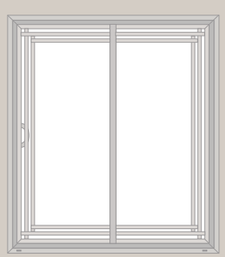
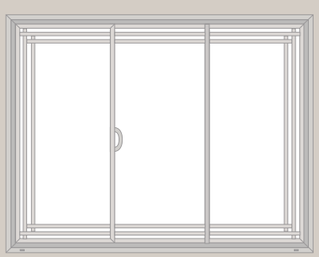
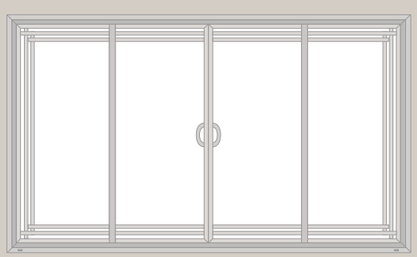
Imperial - Series IM-2121
Sliding Patio Door
Custom Sizes

View From Outside	Custom Size	Sliding Patio Door Clear over Clear: Nail-on 1" or 1-3/8 Setback & Block no grids	Nail-on 1" or 1-3/8 Setback & Block with grids	Retrofit no grids	Retrofit with grids	Sliding Patio Door Clear over LoE3: Nail-on 1" or 1-3/8 Setback & Block no grids	Nail-on 1" or 1-3/8 Setback & Block with grids	Retrofit no grids	Retrofit with grids	Suggested Colonial grid pattern
Imperial SLD: Four Panel Sliding Patio Doors OXXO Sliding Patio Door 	120" x 80"	1,700	1,850	1,850	2,000	1,950	2,100	2,100	2,250	12W/5H
	120" x 96"	1,800	1,950	2,000	2,150	2,050	2,200	2,250	2,400	12W/6H
	120" x 108"	3,400	3,600	3,750	3,950	3,750	3,950	4,100	4,300	12W/7H
	144" x 80"	1,800	1,950	2,000	2,150	2,100	2,250	2,300	2,450	12W/5H
	144" x 96"	1,900	2,100	2,100	2,300	2,200	2,400	2,400	2,600	12W/6H
	144" x 108"	3,500	3,700	3,850	4,050	3,950	4,150	4,300	4,500	12W/7H
	168" x 80"	2,000	2,150	2,200	2,350	2,300	2,450	2,500	2,650	12W/5H
	168" x 96"	2,100	2,300	2,300	2,500	2,400	2,600	2,600	2,800	12W/6H
	168" x 108"	3,700	4,000	4,100	4,400	4,150	4,450	4,550	4,850	12W/7H
	192" x 80"	2,200	2,400	2,400	2,600	2,500	2,700	2,700	2,900	16W/5H
	192" x 96"	2,300	2,550	2,500	2,750	2,650	2,900	2,850	3,100	16W/6H
	192" x 108"	3,900	4,200	4,300	4,600	4,350	4,650	4,750	5,050	16W/7H

CUSTOM OPTIONS WINDOW GRID PATTERNS

	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
Marginal A	 XO Marginal A	 XOX Marginal A	 DH/SH Marginal A	 O Marginal A	 Arch Half Round Marginal A
Marginal B	 XO Marginal B	 XOX Marginal B	 DH/SH Marginal B	 O Marginal B	 Arch Half Round Marginal B
Double Prairie	 XO Double Prairie	 XOX Double Prairie	 DH/SH Double Prairie	 O Double Prairie	 Arch Half Round Double Prairie

CUSTOM OPTIONS DOORS GRID PATTERNS

	DOOR STYLE		
GRID	**XO**	**OXO**	**OXXO**
Colonial	 XO Colonial A-6W-5H	 OXO Colonial A-9W-5H	 OXXO Colonial A-12W-5H
Marginal A	 XO Marginal A	 OXO Marginal A	 OXXO Marginal A
Marginal B	 XO Marginal B	 OXO Marginal B	 OXXO Marginal B
Double Prairie	 XO Double Prairie	 OXO Double Prairie	 OXXO Double Prairie

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 LoE³ glass installed window heat can be dramatically reduced. This helps keep your home cool and comfortable. Ordinary window glass simply does not compare.

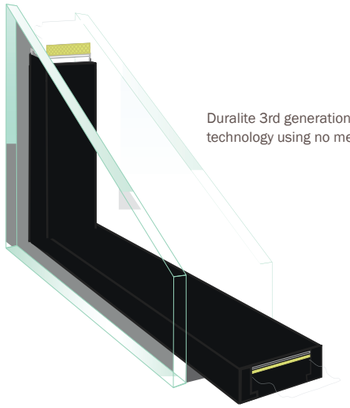
In cold weather months, heating costs increase energy consumption. Usually, 75% of an exposed window is glass. This directly affects the temperature inside. Better insulation will keep your home warmer and heating cost down.

Cardinal's LoE³ glass provides outstanding protection against fading and ultraviolet damage, substantially blocking 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 Value 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



Duralite 3rd generation warm-edge technology using no metal

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).

Imperial™ Vinyl Windows & Patio Doors Series IM-2100

PROUDLY MADE
IN THE USA