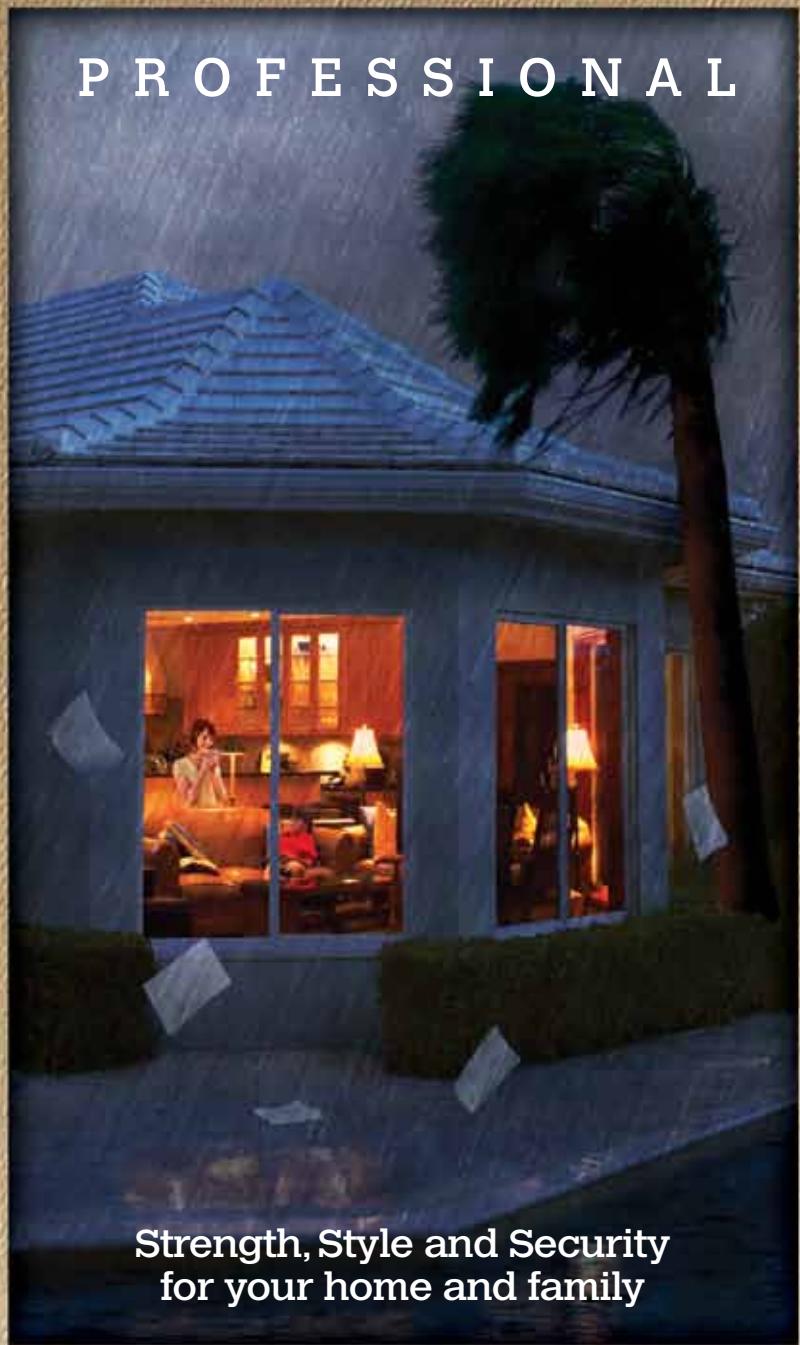


P R O F E S S I O N A L



Strength, Style and Security  
for your home and family

Sentinel



Impact Resistant  
Windows & Doors





## Why Sentinel Impact Resistant Windows and Doors?

An investment in hurricane impact resistant Sentinel Windows and Doors for your home or commercial property is a very wise decision. Sentinel Windows and Doors are manufactured and backed by CGI, founded in 1992 and one of the original pioneers in design and manufacture of high performance impact hurricane resistant windows and doors. CGI's reputation for building high quality windows and doors makes CGI's products the preferred choice of architects, developers, builders and homeowners wherever impact resistant windows and doors are required.

Sentinel's complete line of windows and doors are custom manufactured to enhance the aesthetics of every architectural style while delivering protection from the most extreme weather conditions.

Sentinel Windows and Doors are the best choice to satisfy your window and door needs. Contact a Sentinel dealer today to learn more and see why an investment in Sentinel is the right decision and an outstanding value.

Selecting Sentinel as your window and door choice is also a smart investment for the following reasons:

- Sentinel impact resistant products increase the resale value of your property
- Sentinel impact products will lower your property insurance premiums in most instances
- Sentinel's laminated impact glass reduces energy requirements for heating and cooling your property
- Sentinel laminated impact glass provides improved security against intruders
- Sentinel's laminated glass eliminates up to 99% of UV ray damage to your interior furnishings
- Sentinel's laminated impact glass reduces outside noise transmission into the interior of your home or property
- Sentinel products are proudly made in the USA



### The historic Breakers Hotel chose CGI windows

Founded in 1896 on the oceanfront of Palm Beach, The Breakers is one of the most iconic and luxurious hotels in the world. It is world-renowned for offering its guests exceptional experiences. When it came time to renovate the property, nothing but the best would do. To provide world class hurricane protection while remaining true to the building's historical appearance, the hotel selected CGI Estate Collection windows for 400 of its guest rooms. Made with heavy, commercial-grade aluminum frame construction, the CGI Estate Collection single-hung window has the stylish look of a traditional single-hung with the superior performance of a contemporary impact resistant windows. Our sturdy aluminum frames outperform and are more durable than traditional wood and vinyl frames in the humid Florida climate. The combination of sturdy aluminum construction and impact-resistant glass offers superior hurricane protection and security.

# The **Sentinel** Advantage

by  Impact Resistant  
Windows & Doors

## Up to 30% thicker aluminum extrusions

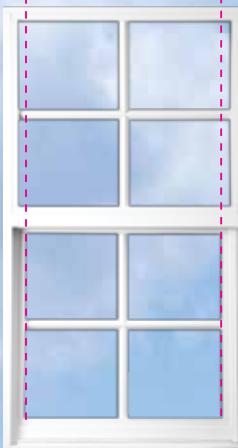
### THEIRS

Thinner aluminum gauge provides less strength and sturdiness

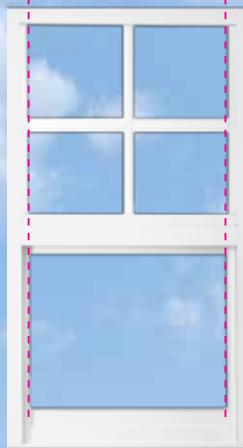
### SENTINEL

Sentinel extrusion thickness is up to 30% higher than some comparable competitive products

### Uneven sight lines



### Architecturally correct sight lines



### THEIRS

Difference in thickness of top and bottom sash construction, less aesthetically pleasing

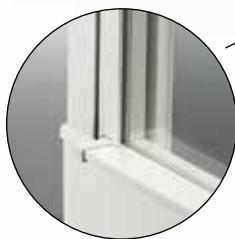
### SENTINEL

Matching top and bottom sash sight lines offer a high-end symmetrical look to your home

### Plastic guides



### Doesn't need guides



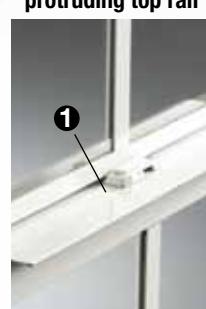
### THEIRS

Plastic guides may break causing misalignment and are unappealing

### SENTINEL

With block and tackle balances there is no need for unsightly guides to ensure smooth operation

### Unsightly protruding top rail

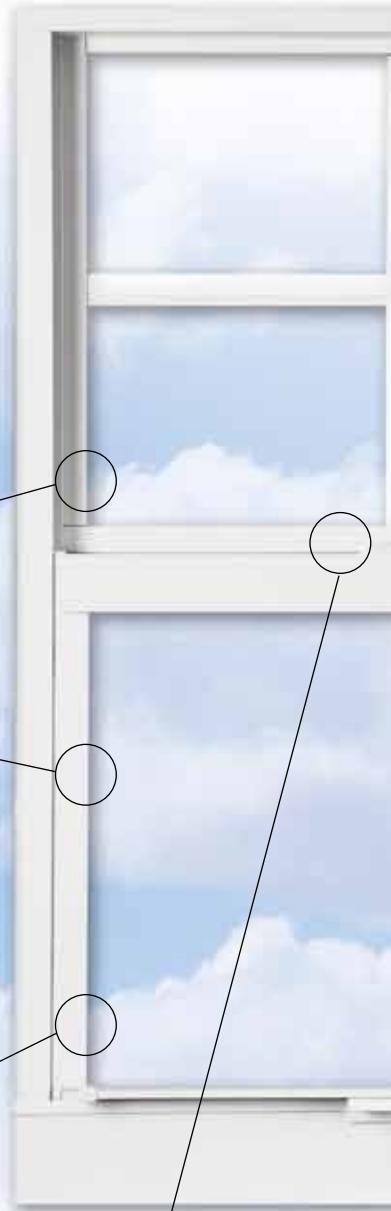


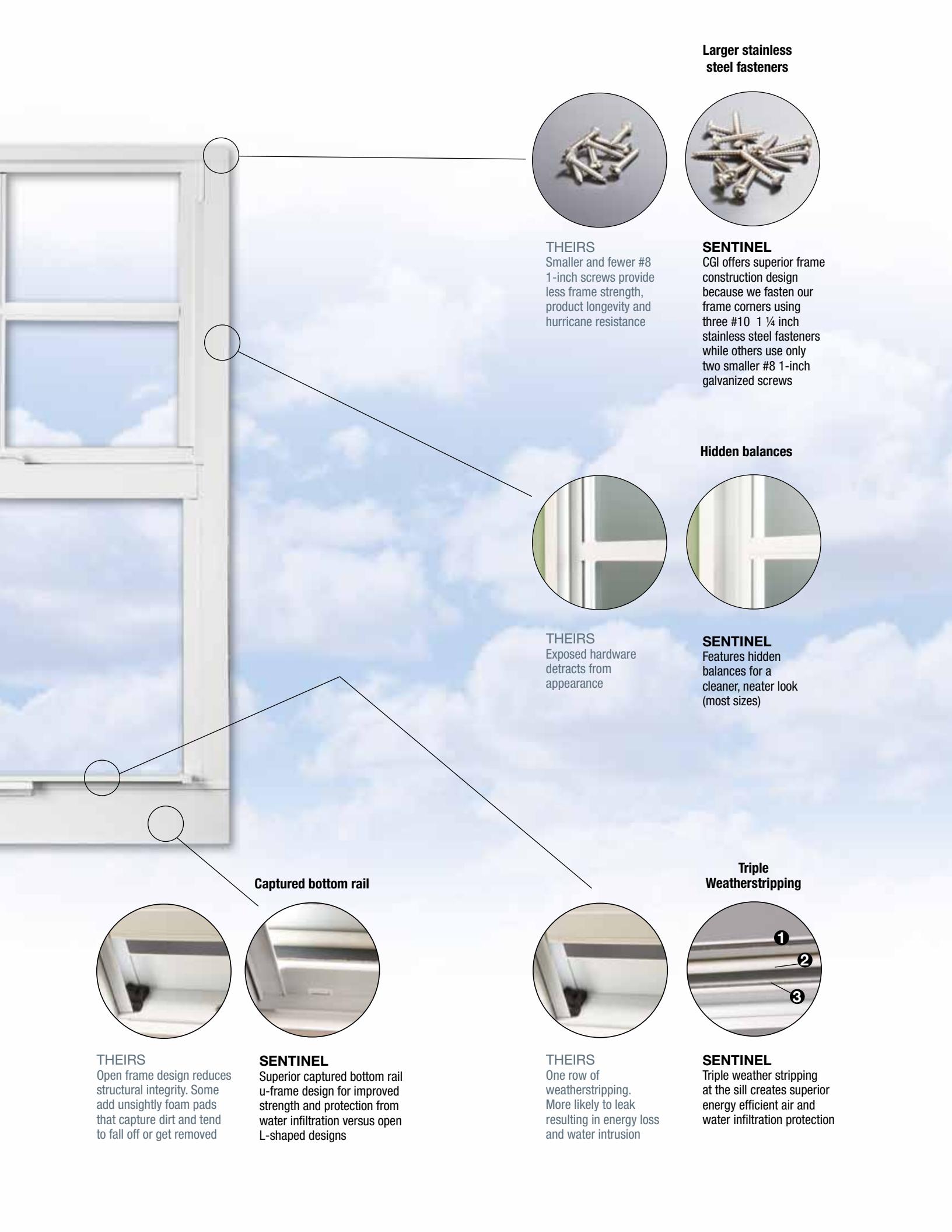
THEIRS  
Protruding rail that detracts from appearance

### Smooth flush appearance



SENTINEL  
Better aesthetics with our flush design versus protruding double rails





## Energy Saving Options

Combine the advantages of impact protection and energy savings with Sentinel windows and doors. Save up to 30% or more with Sentinel Energy Efficient Impact Windows & Doors by selecting from a wide variety of energy efficient glass choices including tinted glass, Lo-E coatings and insulated glass. Choose your glass type based on where you live and your budget. For example, tinted laminated glass may be the most cost effective impact resistant glazing option. Consider tinted laminated for warm climates such as Florida, the Caribbean, Hawaii, and coastal areas of South Carolina, Alabama, Mississippi, and Louisiana. If you are looking for higher performance glass options, laminated glass with a Lo-E coating, or insulated laminated glass with a Lo-E coating is available. These high performance glass options are perfect for cooler climates such as North Carolina, inland sections of South Carolina, Alabama, Mississippi and Louisiana, and anywhere required by local building codes. Please contact a Sentinel dealer for more information.



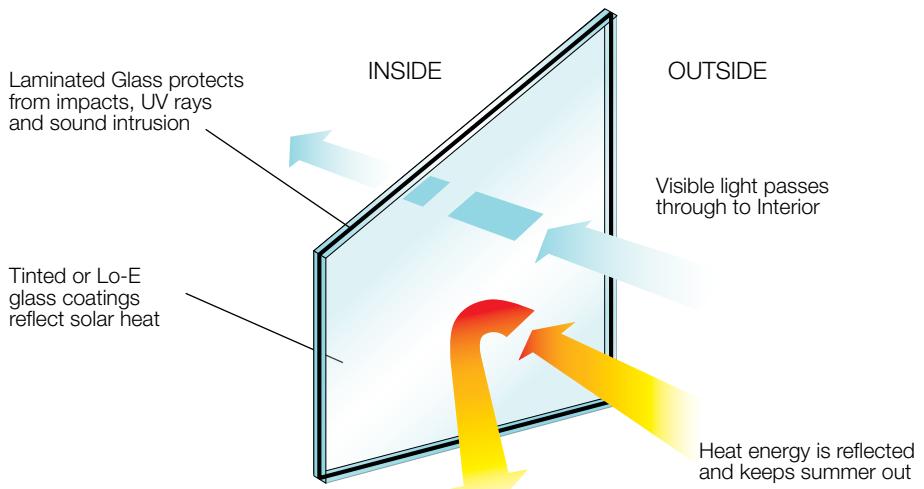
## Superior Warranty Coverage

Sentinel products are backed by our long standing comprehensive product warranty. Ask your local Sentinel dealer for details or visit our website at [www.cgiwindows.com](http://www.cgiwindows.com)



Save up to 30% or more with energy efficient impact windows by combining energy efficient glass choices including glass tints, Lo-E and insulated glass.

### Laminated Glass



\* Products are also available with insulated glass for northern climates.



## Easy Retrofit

Sentinel is custom manufactured to exact sizes within our wide range of design parameters therefore reducing on-site construction costs. In addition, Sentinel's frame depth is designed for both new construction and replacement applications resulting in faster, less intrusive replacement installations. Uniquely designed, Sentinel products are the best choice for your remodeling project. Improve the value, energy efficiency and aesthetics of your property by selecting Sentinel windows and doors.





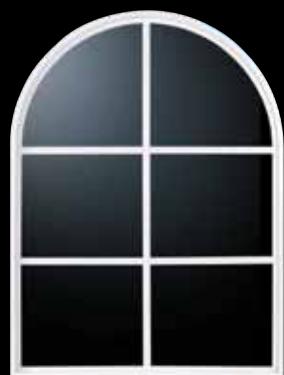
Single-Hung



Fixed



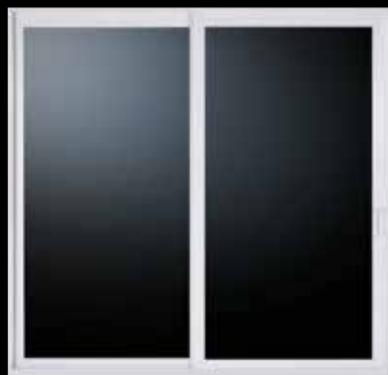
Horizontal Rolling



Designer



French Door



Sliding Glass Door

The closer you look, the better Sentinel looks

Super View™ Screen



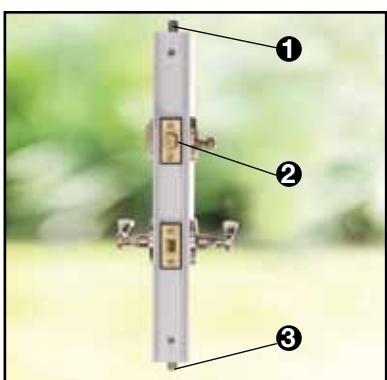
Sash (Egress) and optional Sweep Lock



Semi-Contoured Muntins



Our Super-View™ see-through screen material provides strong construction and clearer, unobstructed views. Our screens are constructed using a sturdy extruded frame design in place of typical thinner roll-formed aluminum screens.

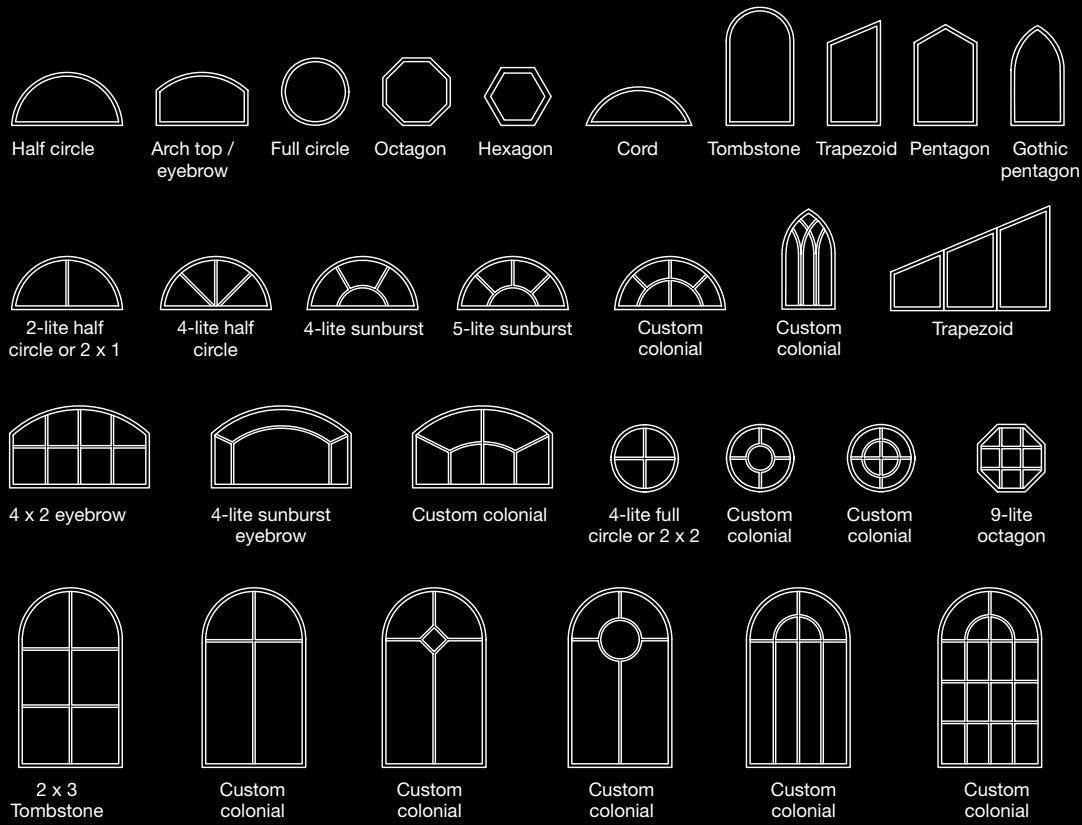


Three Point Locking System



Sliding Glass Door Mitered Corner

## Choose from a number of beautiful designer configurations



## Sentinel Products Offer Many Customizable Choices

### Frame Color

- White ESP
- Bronze ESP

### Glass Types

- Laminated
- Insulated Laminated

### Glass Tints

- Clear
- Gray
- Bronze
- Solexia Green
- Obscure
- Dark Gray
- Blue

### Glass Coatings

- Energy Efficient Lo-E options

### Muntin/Grid Design

- Large assortment of muntin designs

### Single Hung

- Sash bottom rail mounted egress lock standard
- Sash top rail mounted sweep lock option
- Concealed head installation screws
- Water resistant sill standard
- Stainless steel fasteners standard
- Extruded frame with super view screen standard

### Horizontal Rolling Window

- Two & Three panel configurations OX, XO, XOX
- Sash handle rail mounted egress lock standard
- Sash interlock rail mounted sweep lock option
- Concealed jamb anchors
- Stainless steel fasteners standard
- Extruded frame with super view screen standard

### Sliding Glass Doors

- 2 & 3 track configurations
- Pocketing panel options
- Exterior keyed security lock option
- Stainless steel fasteners standard
- Single & dual track extruded frame super view screen

**Available Finishes:**

- White & Bronze

**Standard Glass Colors:**

- Clear, Gray, Bronze, Solexia Green, Obscure, Dark Gray, Blue

**Glass Types:**

- 5/16" Laminated
- 13/16" Insulated Laminated

**Glass Coatings:**

- Energy efficient Lo-E options

**Standard Hardware:**

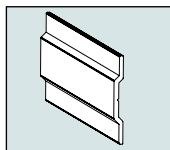
- Egress self closing lock (sill mounted)

**Standard Features:**

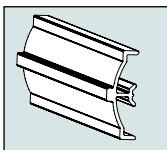
- Matching top and bottom sight lines
- Flush design
- U-framed captured bottom rail with triple weatherstripping and weeped sill
- 2 1/2" deep frame
- Hidden block and tackle balances (most sizes)
- Extruded snap-on glazing beads
- Strong structural glazing
- Concealed head anchors
- 3 #10 1 1/4" stainless steel fasteners per corner
- Extruded screen frame with Super View™ fiberglass mesh

**Optional Items:**

- Meeting rail mounted sweep locks
- Uneven size vent windows (Oriel)
- Flange, fin & equal leg frame options
- Additional egress self closing lock

**Optional Muntins:**

Low Profile



Semi-Contoured (exterior only)

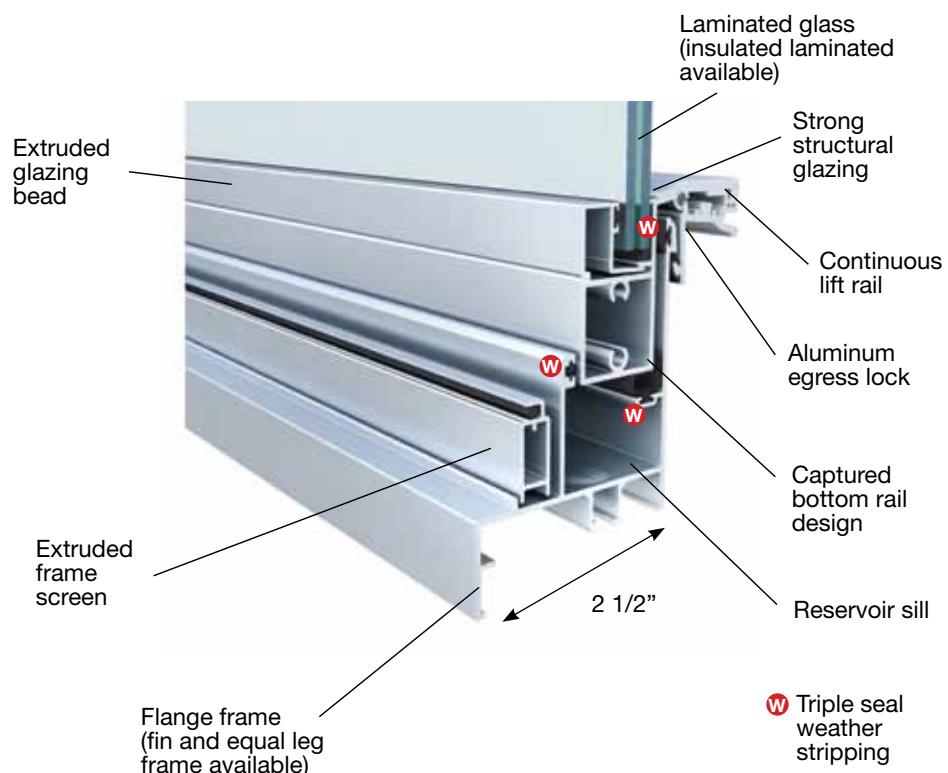
**Glass Types:**

Laminated Glass



Insulated Laminated Glass

# Sentinel Single Hung Window 110



W Triple seal weather stripping

Flange frame (fin and equal leg frame available)

## Sentinel Single Hung Window 110

### Commodity Sizes

Width	Height	Width	Height	Width	Height	Width	Height
19 1/8	26	26 1/2	26	37	26	53 1/8	26
19 1/8	38 3/8	26 1/2	38 3/8	37	38 3/8	53 1/8	38 3/8
19 1/8	50 5/8	26 1/2	50 5/8	37	50 5/8	53 1/8	50 5/8
19 1/8	59 1/2	26 1/2	59 1/2	37	59 1/2	53 1/8	59 1/2
19 1/8	63	26 1/2	63	37	63	53 1/8	63
19 1/8	76	26 1/2	76	37	76	53 1/8	76

All single hung windows have a 2 1/2" depth, ideal for replacement applications

### Modular Sizes

Width	Height								
24	26	32	26	40	26	44	26	48	26
24	38 3/8	32	38 3/8	40	38 3/8	44	38 3/8	48	38 3/8
24	50 5/8	32	50 5/8	40	50 5/8	44	50 5/8	48	50 5/8
24	59 1/2	32	59 1/2	40	59 1/2	44	59 1/2	48	59 1/2
24	63	32	63	40	63	44	63	48	63
24	76	32	76	40	76	44	76	48	76

All single hung windows have a 2 1/2" depth, ideal for replacement applications

### Test Performance Results

Maximum Water Resistance		12 PSF
Large Missle	53 1/8" x 76 window (Ann/Ann Glass)	+ 75 PSF / - 75 PSF
	53 1/8" x 76 window (HS/HS Glass)	+ 80 PSF / - 85 PSF
Forced Entry Test (AAMA 1302.5)	Passed	



### Energy Values\*

Laminated		STC RATINGS	SHGC	U Fact	VLT
5/16"	Clear Lo-E 366	36	0.36	0.97	62%
5/16"	Gray	35	0.58	0.94	51%
5/16"	Clear	35	0.73	0.94	87%
Insulated Laminated					
13/16"	Clear Lo-E 366	37	0.27	0.24	65%
13/16"	Gray Lo-E 270	37	0.35	0.25	48%

\* Center of glass values

**Available Finishes:**

- White & Bronze

**Standard Glass Colors:**

- Clear, Gray, Bronze, Solexia Green, Obscure, Dark Gray, Blue

**Glass Types:**

- 5/16" Laminated
- 13/16" Insulated Laminated

**Glass Coatings:**

- Energy efficient Lo-E options

**Standard Hardware:**

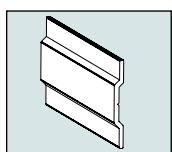
- Egress lock

**Standard Features:**

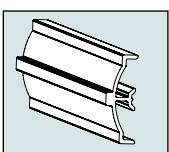
- Two & three panel configurations OX, XO, XOX
- Equal lites or 1/4-1/2/-1/4 configuration
- Flush design
- Double weatherstripping and weeped sill
- 2 1/2" deep frame
- Extruded snap-on glazing beads
- Strong structural glazing
- Concealed jamb anchor cover
- 3 #10 1 1/4" stainless steel fasteners per corner
- Extruded screen frame with Super View™ fiberglass mesh

**Optional Items:**

- Sash interlock rail mounted sweep lock
- Flange, fin & equal leg frame options

**Optional Muntins:**

Low Profile



Semi-Contoured (exterior only)

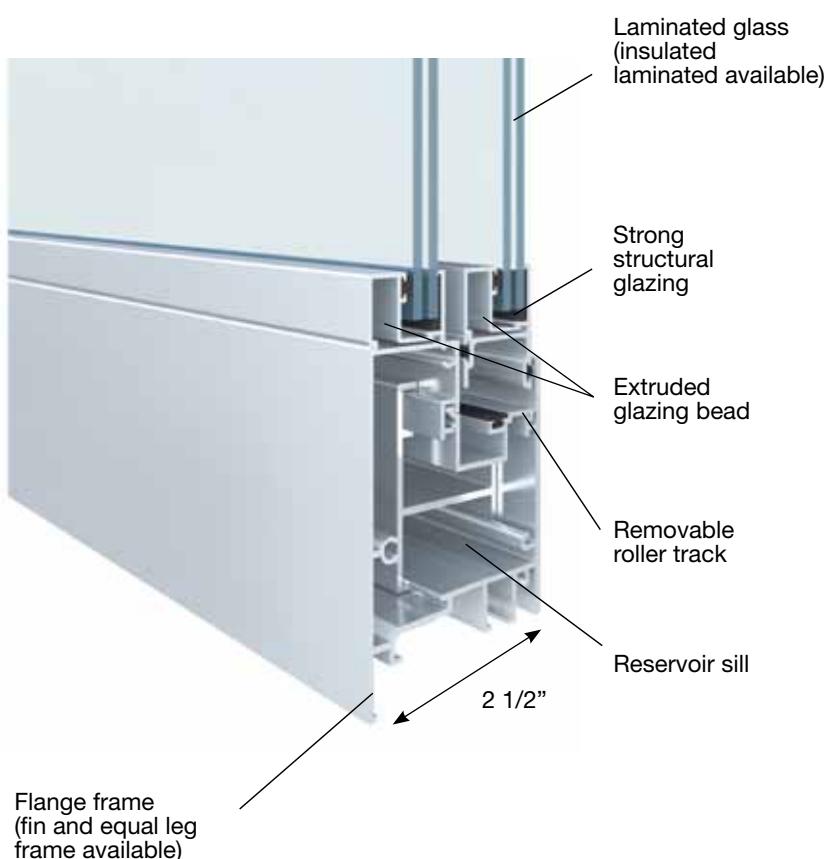
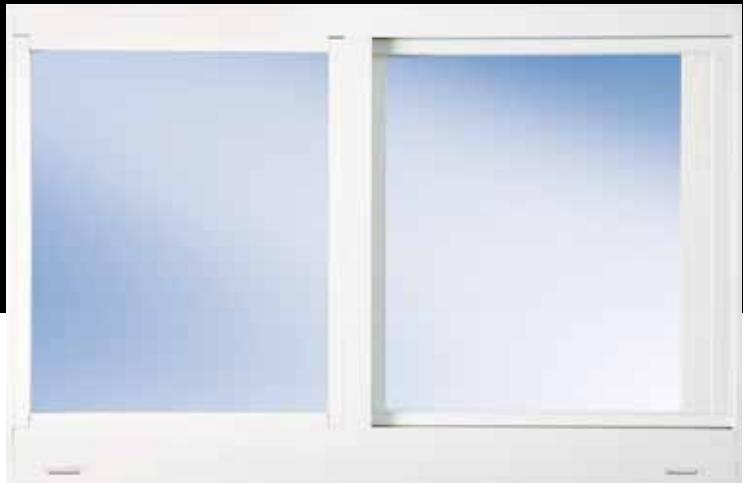
**Glass Types:**

Laminated Glass



Insulated Laminated Glass

# Sentinel Horizontal Rolling Window 120



## Sentinel Horizontal Rolling Window 120

### Commodity Sizes XO or OX

Width	Height	Width	Height	Width	Height	Width	Height
26 1/2	26	37	26	53 1/8	26	74	26
26 1/2	38 3/8	37	38 3/8	53 1/8	38 3/8	74	38 3/8
26 1/2	50 5/8	37	50 5/8	53 1/8	50 5/8	74	50 5/8
26 1/2	63	37	63	53 1/8	63	74	63

All horizontal rolling windows have a 2 1/2" depth, ideal for replacement applications

### Modular Sizes XO or OX

Width	Height												
24	24	36	24	48	24	54	24	60	24	66	24	72	24
24	26	36	26	48	26	54	26	60	26	66	26	72	26
24	36	36	36	48	36	54	36	60	36	66	36	72	36
24	38 3/8	36	38 3/8	48	38 3/8	54	38 3/8	60	38 3/8	66	38 3/8	72	38 3/8
24	48	36	48	48	48	54	48	60	48	66	48	72	48
24	50 5/8	36	50 5/8	48	50 5/8	54	50 5/8	60	50 5/8	66	50 5/8	72	50 5/8
24	54	36	54	48	54	54	54	60	54	66	54	72	54
24	60	36	60	48	60	54	60	60	60	66	60	72	60
24	63	36	63	48	63	54	63	60	63	66	63	72	63

All horizontal rolling windows have a 2 1/2" depth, ideal for replacement applications

### Test Performance Results

Maximum Water Resistance		12 PSF
Large Missile	2 panel 74 x 63 Window (Ann/Ann Glass)	+65 PSF/-65 PSF
	3 panel 111 x 63 Window (Ann/Ann Glass)	+65 PSF/-65 PSF
	2 panel 74 x 63 Window (HS/HS Glass)*	+80 PSF/-90 PSF
	3 panel 111 x 63 Window (HS/HS Glass)*	+80 PSF/-90 PSF
* Fin frame windows limited to + 80 PSF/-80 PSF		
Forced Entry Test (AAMA 1302.5)		Passed



### Energy Values\*

Laminated		STC RATINGS	SHGC	U Fact	VLT
5/16"	Clear Lo-E 366	36	0.36	0.97	62%
5/16"	Gray	35	0.58	0.94	51%
5/16"	Clear	35	0.73	0.94	87%
Insulated Laminated					
13/16"	Clear Lo-E 366	37	0.27	0.24	65%
13/16"	Gray Lo-E 270	37	0.35	0.25	48%

\* Center of glass values

**Available Finishes:**

- White & Bronze

**Standard Glass Colors:**

- Clear, Gray, Bronze, Solexia Green, Obscure, Dark Gray, Blue

**Glass Types:**

- 7/16" Laminated
- 1" Insulated Laminated

**Glass Coatings:**

- Energy efficient Lo-E options

**Standard Accessories:**

- 2 #10 1 1/4" stainless steel fasteners per corner
- Extruded snap-on glazing beads
- 2 1/2" deep frame
- Strong structural glazing
- Fastener covers

**Designer Fixed Windows:**

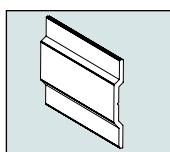
- Half circle
- Arch top/eyebrow
- Full circle
- Octagon
- Hexagon
- Cord
- Tombstone
- Trapezoid
- Pentagon
- Gothic pentagon

**Mull Options:**

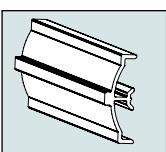
- 1" x 2 1/2" (unclipped)
- 1" x 3" (unclipped)
- 1" x 4 (unclipped)

**Optional Items:**

Flange, fin & equal leg frame options

**Optional Muntins:**

Low Profile



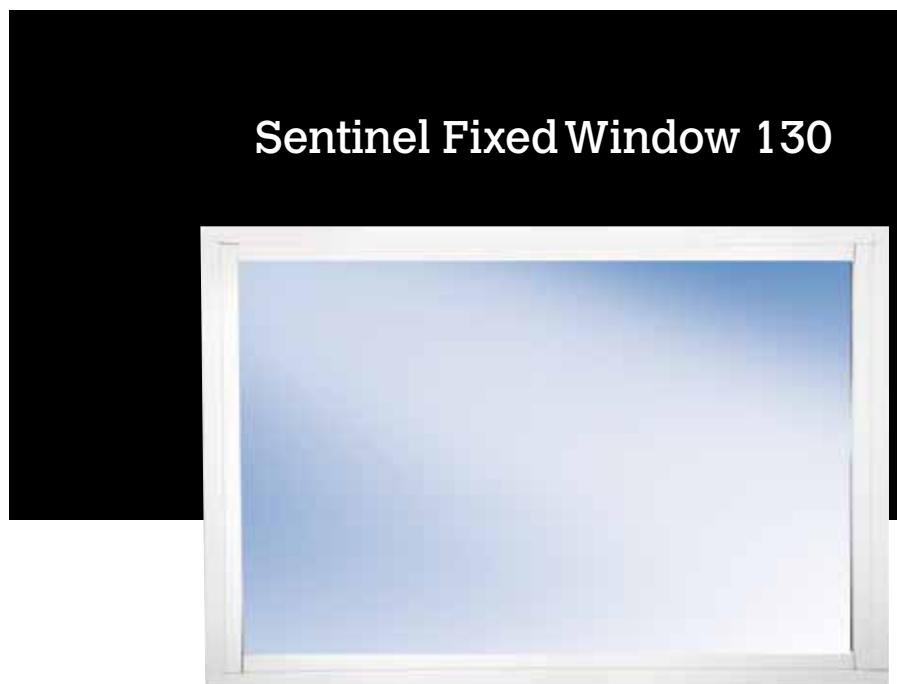
Semi-Contoured (exterior only)

**Glass Types:**

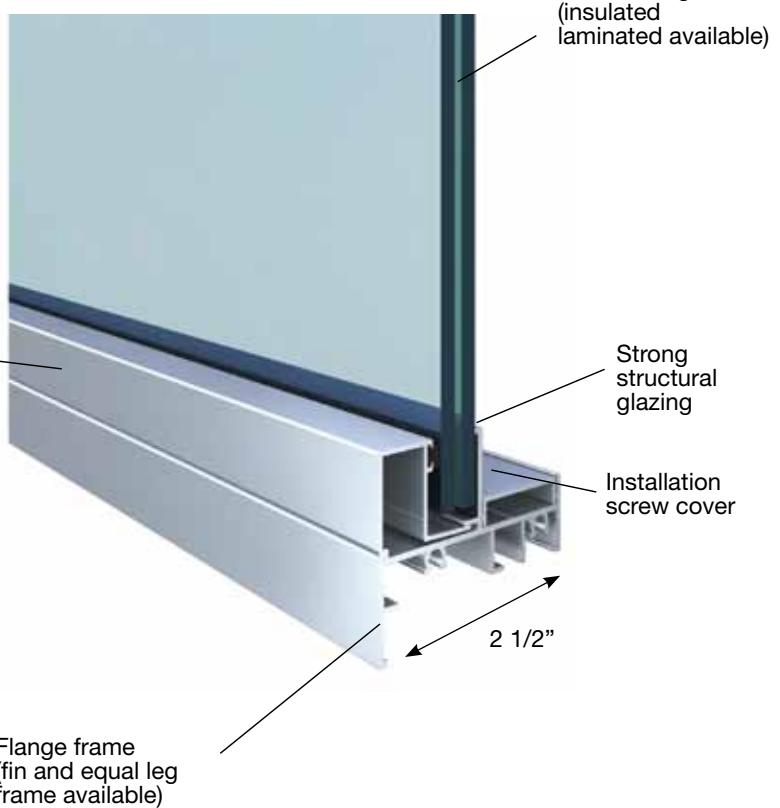
Laminated Glass



Insulated Laminated Glass



## Sentinel Fixed Window 130

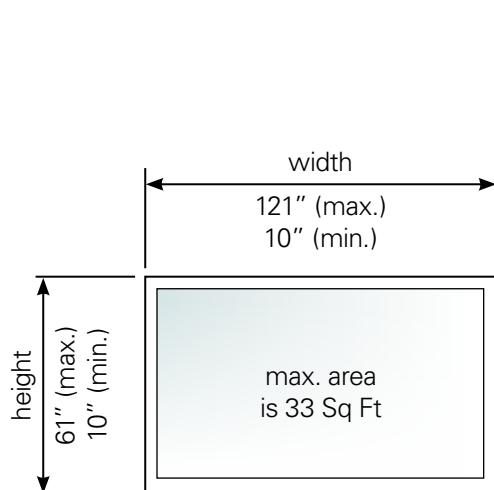


## Sentinel Fixed Window 130

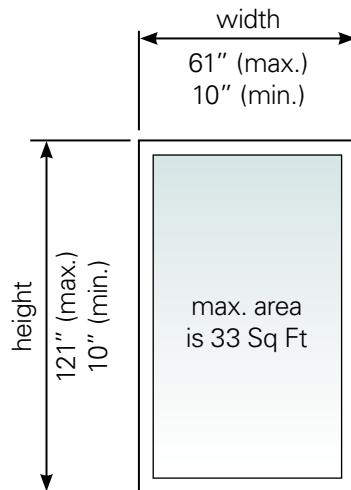
### Test Performance Results

Maximum Water Resistance		12 PSF
Large Missle	47 x 97 window (Ann/HS Glass)	+ 60 PSF / - 60 PSF
	47 x 97 window (HS/HS Glass)	+ 80 PSF / - 80 PSF

### Rectangular Fixed



(Flange frame)



(Flange frame)

All fixed windows have a 2 1/2" depth, ideal for replacement applications

\*Equal Leg and Fin frame are 32 Sq Ft



### Energy Values\*

Laminated		STC RATINGS	SHGC	U Fact	VLT
7/16"	Clear Lo-E 366	36	0.37	0.95	60%
7/16"	Gray	36	0.57	0.94	50%
7/16"	Clear	36	0.73	0.95	86%
Insulated Laminated					
1"	Clear Lo-E 366	39	0.27	0.24	63%
1"	Gray Lo-E 270	39	0.28	0.25	35%

\* Center of glass values

**Available Finishes:**

- White & Bronze

**Standard Glass Colors:**

- Clear, Gray, Bronze, Solexia Green, Obscure, Dark Gray, Blue

**Glass Types:**

- 7/16" Laminated
- 1" Insulated Laminated

**Glass Coatings:**

- Energy efficient Lo-E options

**Standard Hardware:**

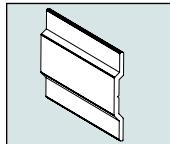
- Interior lock and handle
- Stainless steel rollers
- White or Bronze handles

**Standard Features:**

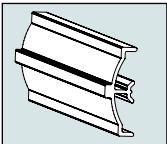
- 2 & 3 track and pocketed configurations
- 4 3/4" deep frame on 2 track
- 6" deep frame on 3 track
- Mitered decorative interior corners
- Stainless steel fasteners
- Heavy duty extruded screen frame with Super View™ fiberglass mesh

**Optional Items:**

- Exterior keyed security lock
- Dual track extruded screen frame with Super View™ fiberglass mesh for use with 3 track configurations

**Optional Muntins:**

Low Profile



Semi-Contoured (exterior only)

**Glass Types:**

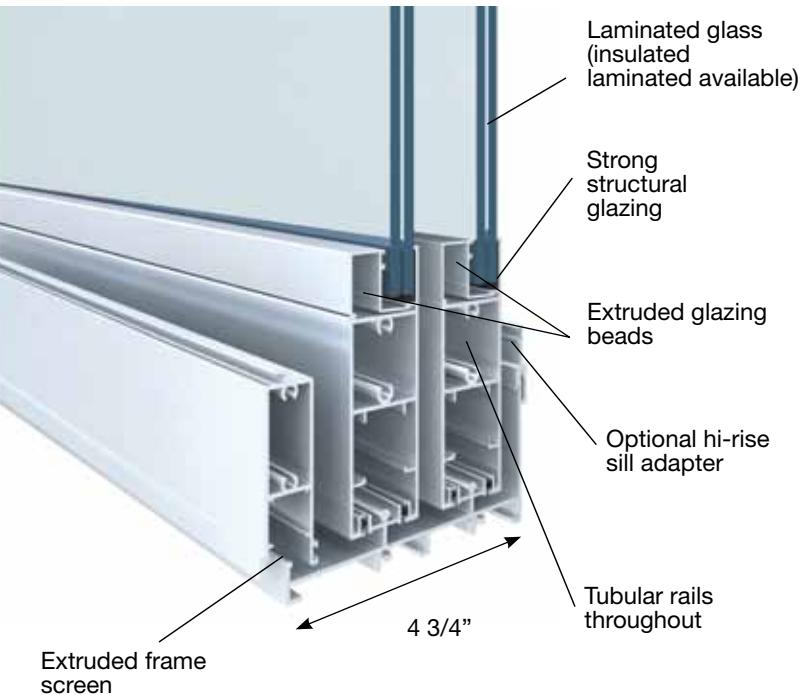
Laminated Glass



Insulated Laminated Glass



# Sentinel Sliding Glass Door 150



## Sentinel Sliding Glass Door 150

### Sentinel 6'8" and 8'0" Sliding Glass Door Sizes (80" and 96" frame height)

Configuration		Call Width	Frame Width	Configuration		Call Width	Frame Width
2 Track	OX,XO,XX	4-0	48	3 Track	XXX,XXO XXX-R,OXX	7-6	88 1/16
		5-0	60			9-0	106 1/16
		6-0	72			12-0	142 1/16
		8-0	96			15-0	178 1/16
	OXO,OXO-R	9-0	108 3/8				
		12-0	144 3/8				
		15-0	180 3/8				
	OXXO,XXXX	10-0	118 7/16	OXXXO, XXXXXX	15-0 18-0 24-0	174 5/8	
		12-0	142 7/16			210 5/8	
		16-0	190 7/16			282 5/8	

\* Pocket configurations available

### Test Performance Results

Maximum Water Resistance	Without waterbar adapter	9 PSF
	With waterbar adapter	12 PSF
Large Missile	4' x 8' Panel (Ann/HS Glass)	+ 60 PSF / - 60 PSF
	4' x 8' Panel (HS/HS Glass)	+ 80 PSF / - 85 PSF
Forced Entry Test (AAMA 1302.5)		Passed



### Energy Values\*

Laminated		STC RATINGS	SHGC	U Fact	VLT
7/16"	Clear Lo-E 366	36	0.35	0.96	60%
7/16"	Gray	36	0.57	0.94	50%
7/16"	Clear	36	0.73	0.95	86%
Insulated Laminated					
1"	Clear Lo-E 366	39	0.27	0.24	63%
1"	Gray Lo-E 270	39	0.28	0.25	35%

\* Center of glass values

**Available Finishes:**

- White & Bronze

**Standard Glass Colors:**

- Clear, Gray, Bronze, Solexia Green, Obscure, Dark Gray, Blue

**Glass Types:**

- 7/16" Laminated
- 1" Insulated Laminated

**Glass Coatings:**

- Energy efficient Lo-E options

**Standard Hardware:**

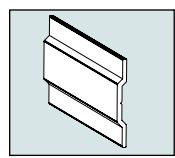
- Patented 3-point lock

**Standard Features:**

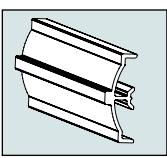
- Extruded snap-on glazing beads
- 4 5/8" deep frame
- Fastener covers
- High bottom rail french door sightlines
- Triple weatherstripping

**Optional Items:**

- Brushed Satin, Tuscan Bronze or Polished Brass levers
- Available as single or pairs

**Optional Muntins:**

Low Profile



Semi-Contoured (exterior only)

**Glass Types:**

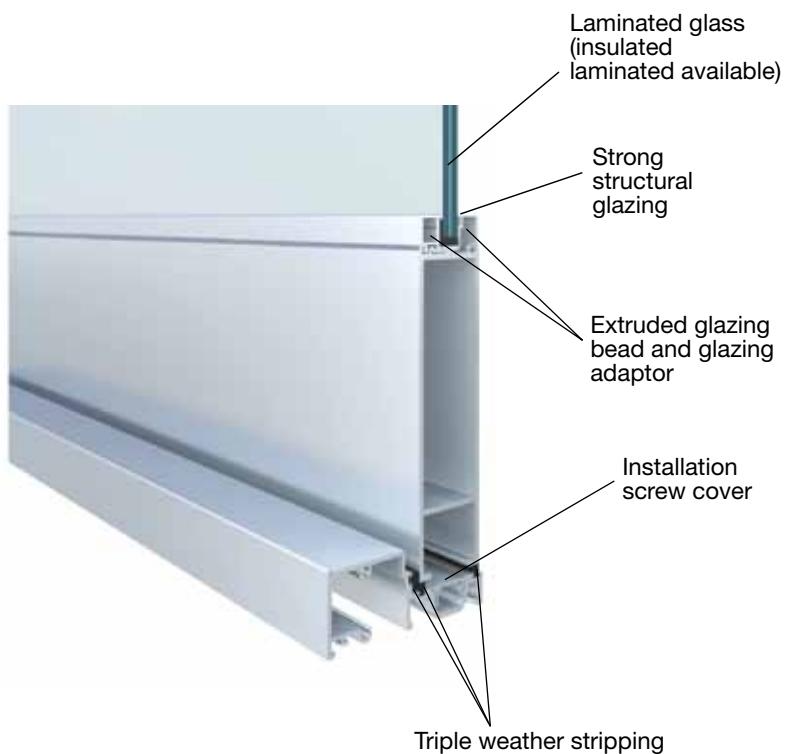
Laminated Glass



Insulated Laminated Glass



## Sentinel French Door 450SN



## Sentinel French Door 450SN

### Door Sizes

6' 8"			Single		8' 0"		6' 8"			Double		8' 0"		
Code Size	Width	Height	Code Size	Width	Height	Code Size	Width	Height	Code Size	Width	Height	Code Size	Width	Height
2068	25 3/16	79 3/4	2080	25 3/16	95 3/4	4068	47 3/4	79 3/4	4080	47 3/4	95 3/4			
2668	31 3/16	79 3/4	2680	31 3/16	95 3/4	5068	59 3/4	79 3/4	5080	59 3/4	95 3/4			
2868	33 3/16	79 3/4	2880	33 3/16	95 3/4	5468	63 3/4	79 3/4	5480	63 3/4	95 3/4			
3068	37 3/16	79 3/4	3080	37 3/16	95 3/4	6068	71 3/4	79 3/4	6080	71 3/4	95 3/4			

### Test Performance Results

Maximum Water Resistance		15 PSF
Large Missile	3' x 8' Panel (Ann/Ann Glass)	+ 100 PSF / - 100 PSF
Forced Entry Test (AAMA 1302.5)		Passed



### Energy Values\*

Laminated		STC RATINGS	SHGC	U Fact	VLT
7/16"	Clear Lo-E Energy Adv	36	0.46	1.04	43%
7/16"	Gray	36	0.57	0.94	50%
7/16"	Clear	36	0.73	0.95	86%
Insulated Laminated					
1"	Clear Lo-E 366	39	0.27	0.24	63%
1"	Gray Lo-E 270	39	0.28	0.25	35%

\* Center of glass values



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