



Prepare for Impact



STORMFORCE
BY WINCORE®

DECORATIVE OPTIONS

Exterior Vinyl Colors (White, Tan, Clay or Woodgrain Interiors)



Interior Woodgrains (White, Tan, Clay or Factory-applied Color Exteriors)



Cam Locks



Patio Door Handles



All 8800 and 8400 windows feature contoured vinyl profiles.



Grids & Grid Patterns

Optional contoured grids are located inside the insulating glass unit to provide a smooth cleaning surface. Available in two distinct patterns.

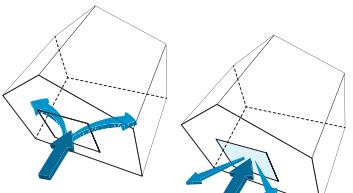


Impact by design



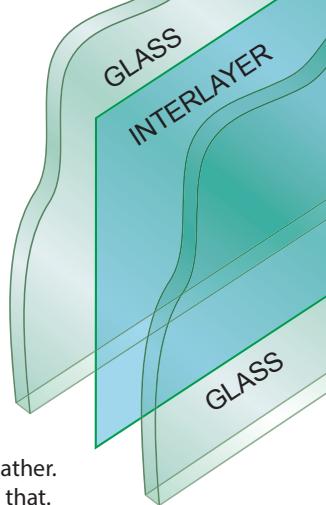
8800 Key Features

- Heavy Duty 3 1/4" Frame**
- Strategically Reinforced Vinyl Extrusions**
- Strong Thick-walled Vinyl Profiles**
- Precision-mitered, Fusion-welded Frames and Sash**
- Sealed, Multi-hollow Chambers**
- Dual-pane 1" Impact-resistant Laminated Glass**
- Standard, Energy-efficient Low E / Argon**
- Architecturally-beveled Vinyl Profiles**
- Corrosion-resistant Components**
- High-performance Glazing Compound**



Importance of Laminated Glass

During a storm, if a building is breached through a broken window, wind may enter the structure and cause an increase in air pressure. This vacuum effect could lift the roof and collapse the walls. Laminated glass helps to preserve the building envelope, keeping the wind and other elements outside.



Impact-resistant Laminated Glass

When it comes to impact-resistant windows for coastal areas, the frame system, laminated glass and sealant must work together to resist the catastrophic forces applied during severe weather. Stormforce 8800 windows from Wincore® do just that. Similar to the glass used in car windshields and aircraft windows, 8800's insulating glass features an impact-resistant plastic interlayer that is bonded between two pieces of glass under heat and pressure. The interlayer remains adhered to the glass fragments and resists penetration, even if the glass pane is broken – protecting against flying debris and hurricane-force winds. In addition, laminated glass guards against forced entry – resisting repeated impacts from hammers, bricks or similar weapons. It also helps to control unwanted outside noise from entering the home and filters out 99% of the sun's most damaging rays that fade carpets and draperies.

Warm-edge Technology

The performance of the spacer in the insulating glass is critical to the efficiency of your window as well as its longevity. The innovative U-channel spacer design creates a powerful thermal barrier that reduces the amount of heat loss conducted through the window and more effectively retains the insulating argon gas that is critical to the window's thermal performance. Because this spacer system helps keep the window glass and its edges warmer, it in turn helps to lower energy bills and keep your home more comfortable.

Available Styles





Double Hung 8800 Key Features



Sash profiles are reinforced with aluminum that fits tightly into pocketed vinyl chambers on all sides to provide ultimate impact-resistance performance.



Frame and sash are high-heat fusion welded at precision mitered corners for improved strength and water-tightness.



The impact-resistant 1" laminated insulating glass not only offers dependable impact performance, but also provides UV protection and improved thermal performance as well.



Continuous, integral lift rails provide fingertip ease of operation and are molded into the sash itself to prevent them from becoming loose or breaking away from sash with regular use.



A weatherstripped meeting rail, with a dual seal from the sash to the frame, creates a positive seal keeping out harsh elements.



A heavy-duty, constant force corrosion-resistant balance system provides durability and easy, smooth operation. *See next page.*



Through an innovative tilt latch designed for coastal areas, both top and bottom sash tilt in to allow for easy cleaning inside the home. *See next page.*



Covered weep holes in the sill control water drainage. *Not shown.*

Double Hung Styles



Double Hung



2 Mulled Double Hung



3 Mulled Double Hung



Mulled Double Hung/Picture Window/Double Hung



Double Hung Mulled w/
Transom

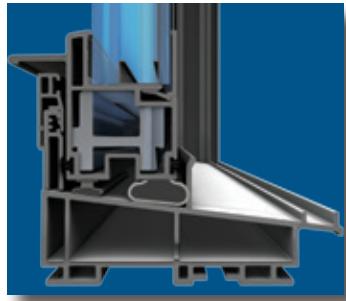
Structural mull available. Mullions ship separate from window units and must be assembled on project site.





Defender Tilt Latch

Central to the design of the 8800 Double Hung is a unique, high performance tilt latch. In the locked position, the rugged latch integrates deep within the wall studs and window sash reinforcement.



High Sill Dam

The sill dam height is 2-11/16" to further reduce water penetration.



Corrosion-resistant Locks

Marine-grade, corrosion-resistant cam locks always remain warm to the touch and are color-matched to the window. Two locks are standard.



Balance System

Operable sash move easily on tightly-wound coil springs that will never need adjustment.

8800 Double Hung Structural Performance

MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING
54" x 84"	0.07 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50
48" x 72"	0.08 cfm/ft ²	9.75 psf	+60 / -65 psf	LC-PG60
54" x 76"	0.06 cfm/ft ²	9.75 psf	+55 / -60 psf	LC-PG55
54" x 76"	0.05 cfm/ft ²	9.75 psf	+65 / -70 psf	LC-PG65

For testing specifications and notations, see page 13.

8400 Non-impact High Performance products also available.
Ask your Wincore® representative for details.

Double Slider / 3Lite End Vent 8800 Key Features



Slider Styles



Double Slider



3-Lite End Vent
1-1/4-1-2-1-1/4



3-Lite End Vent
1-1/3-1-3-1-1/3

Structural mull available. Mullions ship separate from window units and must be assembled on project site.



Sash profiles are reinforced with aluminum to provide ultimate impact-resistance.



Frame and sash are high-heat fusion welded at precision mitered corners for strength and water-tightness.



The impact-resistant 1" laminated insulating glass not only offers dependable impact performance, but also provides UV protection and improved thermal performance.



Unique water drainage system greatly improves water evacuation and minimizes air infiltration. *Not shown.*



Dual seal sash-to-frame weatherstripping creates a premier barrier against the elements.

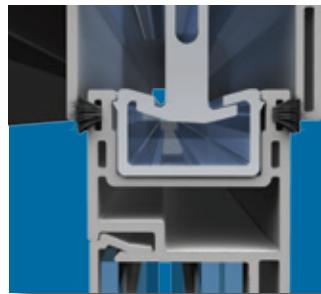
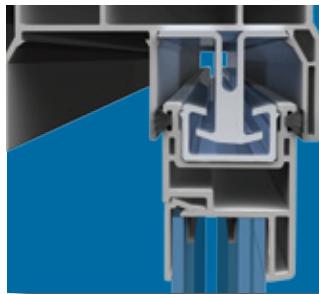


Marine-grade, corrosion-resistant cam locks remain warm to the touch and the colors complement all 14 available window color combinations.



Slider windows feature an innovative raised monorail track system in the sill that not only provides reinforcement, but also allows sash to glide smoothly above the dirt and debris that tends to accumulate.

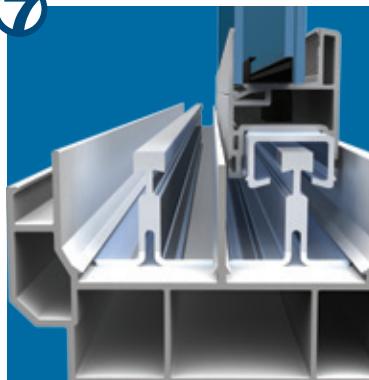




Anti-lift Block

Not only does the Anti-lift Security Block virtually eliminate unwanted sash removal, it assists with the retention of the sash when they need to be held into the frame at the most critical of times. Illustration above left shows the anti-lift block when the sash is at rest under normal conditions, while the illustration above right shows the anti-lift block engaged with the sash under pressure during high winds.

7



Monorail Track System

The sash of 8800 horizontal sliding windows travel securely on an aluminum monorail system. Tandem nylon rollers with stainless steel bearings resist corrosion.



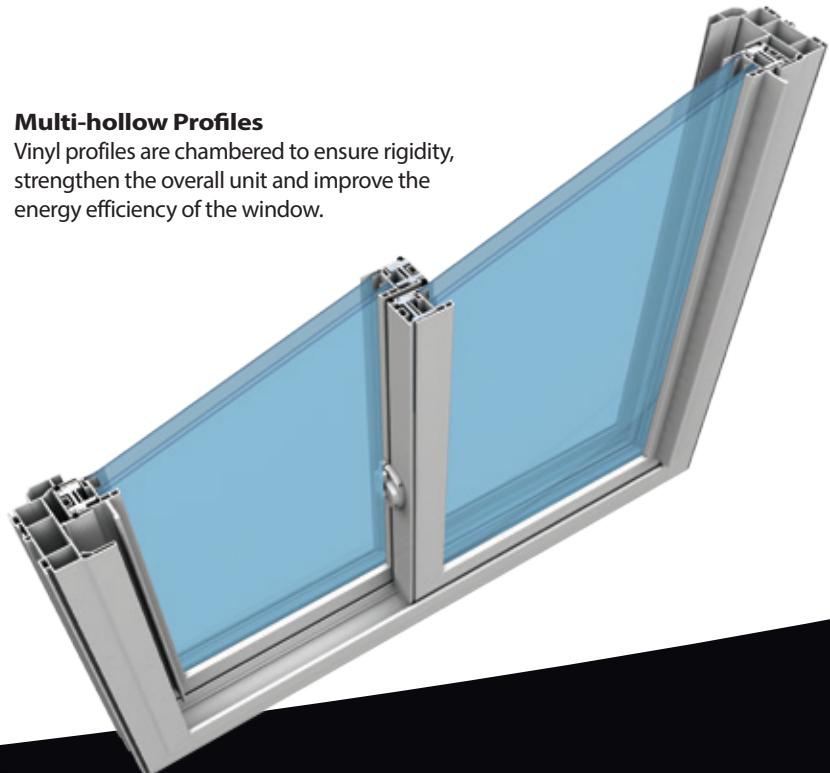
8800 Double Slider & 3 Lite End Vent Structural Performance

MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING
DS 74" x 62"	0.01 cfm/ft ²	9.75 psf	+55 / -55 psf	LC-PG55
DS 74" x 63"	0.02 cfm/ft ²	9.75 psf	+50 / -55 psf	LC-PG50
DS 74" x 63"	0.02 cfm/ft ²	9.75 psf	+65 / -75 psf	LC-PG65
EV (333) 110" x 62"	0.01 cfm/ft ²	9.75 psf	+55 / -55 psf	LC-PG55
EV (333) 86.5" x 63"	0.02 cfm/ft ²	9.75 psf	+50 / -55 psf	LC-PG50
EV (333) 86.5" x 63"	0.02 cfm/ft ²	9.75 psf	+60 / -65 psf	LC-PG60
EV (424) 110" x 62"	0.04 cfm/ft ²	9.75 psf	+45 / -45 psf	LC-PG45
EV (424) 112" x 63"	0.02 cfm/ft ²	9.75 psf	+50 / -55 psf	LC-PG50
EV (424) 112" x 63"	0.01 cfm/ft ²	9.75 psf	+60 / -65 psf	LC-PG60

For testing specifications and notations, see page 13.

Multi-hollow Profiles

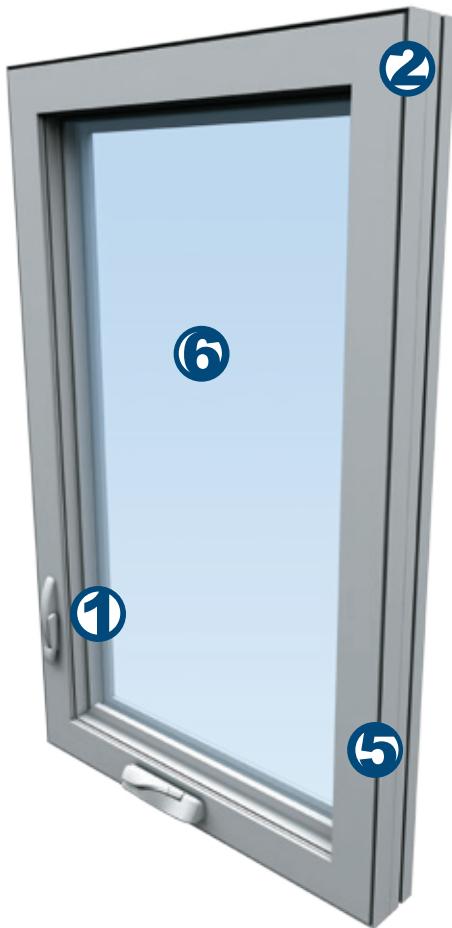
Vinyl profiles are chambered to ensure rigidity, strengthen the overall unit and improve the energy efficiency of the window.



8400 Non-impact High Performance products also available.

Ask your Wincore® representative for details.

Casement & Awning 8800 Key Features



Fully concealed multi-point lock system with a zippered locking effect ensures engagement of top lock point. Nesting folding handle is designed to minimize interference with window treatments such as curtains and blinds.



The sturdy frames and sash are made from thick premium quality vinyl extrusions and do not require additional reinforcement.



Operators utilize a sealable housing to reduce air and water infiltration. *Not shown.*



Heavy-gage steel hinges allow exterior glass pane to be cleaned from inside the home, and open the window to almost 90 degrees for maximum ventilation. A stainless steel hardware option offers an extended warranty. *Not shown.*



Triple weatherstripping creates remarkable air-tightness to reduce drafts and help reduce heating and air conditioning costs.



The impact-resistant 1" laminated insulating glass not only offers dependable impact performance, but also provides UV protection and improved thermal performance.

8800 Casement & Awning Structural Performance

MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING
CS 36"x 72"	<0.01 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50
CS 36"x 72"	<0.01 cfm/ft ²	15.00 psf	+55 / -55 psf	LC-PG55
CS 36"x 72"	<0.01 cfm/ft ²	15.00 psf	+65 / -70 psf	LC-PG65
AW 53"x 32"	<0.01 cfm/ft ²	9.75 psf	+50 / -50 psf	LC-PG50
AW 53"x 32"	<0.01 cfm/ft ²	15.00 psf	+55 / -55 psf	LC-PG55

For testing specifications and notations, see page 13.

Casement and Awning Styles



Casement



2 Casement Windows Mulled



3 Casement Windows Mulled



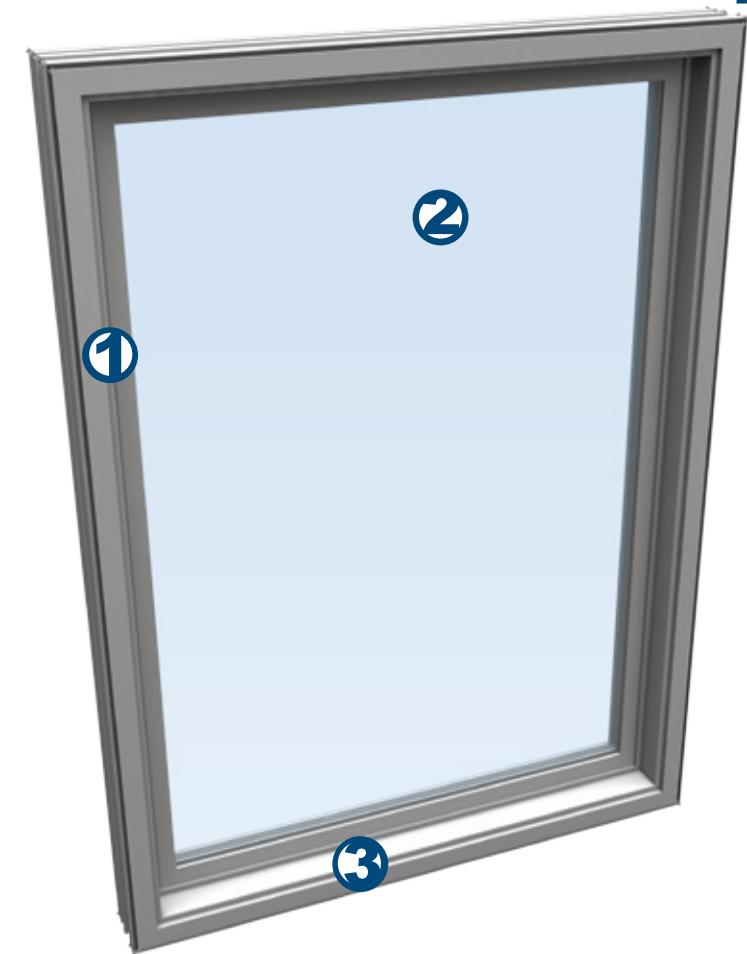
Awning Window



Casement Mulled with Awning Window

Structural mull available. Mullions ship separate from window units and must be assembled on project site.

Picture Window 8800 Key Features



- 1 Architecturally-beveled exterior frame complements the frames of other 8800 operating units.
- 2 The impact-resistant 1" laminated insulating glass not only offers dependable impact performance, but also provides UV protection and improved thermal performance.
- 3 Vinyl extrusions are impact and corrosion-resistant and their multi-hollow chambered interior design adds strength and helps improve thermal performance.



8800 Picture Window Structural Performance

MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING
48" x 60"	<0.01 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50
37" x 84"	0.04 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50
64" x 64"	<0.01 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50
72" x 72"	<0.01 cfm/ft ²	12.00 psf	+50 / -50 psf	LC-PG50
64" x 64"	<0.01 cfm/ft ²	12.00 psf	+65 / -65 psf	LC-PG65
37" x 84"	<0.01 cfm/ft ²	9.75 psf	+65 / -65 psf	LC-PG65
72" x 72"	<0.01 cfm/ft ²	9.75 psf	+65 / -65 psf	LC-PG65
76" x 63"	<0.01 cfm/ft ²	15.00 psf	+65 / -70 psf	LC-PG65

For testing specifications and notations, see page 13.

Fixed Unit Styles



Picture Window



Geometric Windows
Limited Styles

**8400 Non-impact High Performance products also available.
Ask your Wincore® representative for details.**

Sliding Patio Doors

8800 Key Features



Aluminum interlock constitutes a key strength feature without changing the door's streamlined appearance or restricting the outside view.



The sturdy frames and sash are made from thick premium quality vinyl extrusions and are chambered for maximum rigidity.



Sash panels feature full-length steel reinforcement – providing increased impact resistance where it is needed most.



A high water barrier bar at the sill helps prevent water penetration at the sill track system. *Not shown.*



Extruded screen frames feature a patented, adjustable, spring-loaded suspension system at the corners and is designed not to derail or jam. *Not shown.*



The impact-resistant 1" laminated insulating glass not only offers dependable impact performance, but also provides UV protection and improved thermal performance. *Not shown.*

Standard Low E / Argon with U-channel spacer design ensure 8800 Sliding Patio Doors meet ENERGY STAR® guidelines.





Smooth Glide Track System

Operating panels slide effortlessly, regardless of door size, because of an exclusive, patented sliding system that features adjustable dual, tandem 1" wheels to ensure smooth, easy and quiet operation.



Draft Protection

Triple weatherstripping at rails and double weatherstripping at junction, improve insulation and creates incredible air-tightness to reduce drafts and help reduce heating and air conditioning costs.



Exterior Keyed Lock

Standard exterior keyed lock and available with optional interior footbolt.

8800 Sliding Patio Door Structural Performance

MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING
94.5" x 94.5"	0.07 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50
96" x 96"	0.02 cfm/ft ²	9.75 psf	+50 / -55 psf	LC-PG50
138.9" x 94.5"	0.07 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50

For testing specifications and notations, see page 13.

8800 Impact Performance / Non-HVHZ

Structural Performance		MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING	FBC APPROVAL
★	Double Hung (DS / .090 PVB)	48" x 72"	0.08 cfm/ft2	9.75 psf	+60 / -65 psf	LC-PG60	FL15819.2
★	Double Hung (DS / .090 PVB)	54" x 84"	0.07 cfm/ft2	7.50 psf	+50 / -50 psf	LC-PG50	FL15819.2
★	Double Hung (DST / .090 PVB)	54" x 76"	0.06 cfm/ft2	9.75 psf	+55 / -60 psf	LC-PG55	FL15819.2
★	Double Hung (DST / .090 SGP)	54" x 76"	0.05 cfm/ft2	9.75 psf	+65 / -70 psf	LC-PG65	FL15819.2
★	Horizontal Slider (XX) (DS / .090 PVB)	74" x 62"	0.01 cfm/ft2	9.75 psf	+55 / -55 psf	LC-PG55	FL16092.4
★	Horizontal Slider (XX) (DST / .090 PVB)	74" x 63"	0.02 cfm/ft2	9.75 psf	+50 / -55 psf	LC-PG50	FL16092.4
★	Horizontal Slider (XX) (DST / .090 SGP)	74" x 63"	0.02 cfm/ft2	9.75 psf	+65 / -75 psf	LC-PG65	FL16092.4
★	Horizontal Slider (XOX - 333) (DST / .090 PVB)	86.5" x 63"	0.01 cfm/ft2	9.75 psf	+50 / -55 psf	LC-PG50	FL16092.5
★	Horizontal Slider (XOX - 333) (DST / .090 SGP)	86.5" x 63"	0.02 cfm/ft2	9.75 psf	+60 / -65 psf	LC-PG60	FL16092.5
★	Horizontal Slider (XOX - 333) (DS / .090 PVB)	110" x 62"	0.01 cfm/ft2	9.75 psf	+55 / -55 psf	LC-PG55	FL16092.6
★	Horizontal Slider (XOX - 424) (DS / .090 PVB)	110" x 62"	0.04 cfm/ft2	9.75 psf	+45 / -45 psf	LC-PG45	FL16092.5
★	Horizontal Slider (XOX - 424) (DST / .090 PVB)	112" x 63"	0.02 cfm/ft2	9.75 psf	+50 / -55 psf	LC-PG50	FL16092.5
★	Horizontal Slider (XOX - 424) (DST / .090 SGP)	112" x 63"	0.01 cfm/ft2	9.75 psf	+60 / -65 psf	LC-PG60	FL16092.5
	Picture (Fixed) Window (DS / .090 PVB)	48" x 60"	<0.01 cfm/ft2	7.50 psf	+50 / -50 psf	LC-PG50	FL15816.2
	Picture (Fixed) Window (DS / .090 PVB)	37" x 84"	0.04 cfm/ft2	7.50 psf	+50 / -50 psf	LC-PG50	FL15816.2
	Picture (Fixed) Window (3S Glass / .090 PVB)	64" x 64"	<0.01 cfm/ft2	7.50 psf	+50 / -50 psf	LC-PG50	FL15816.2
	Picture (Fixed) Window (3S Glass / .090 SGP)	72" x 72"	<0.01 cfm/ft2	12.00 psf	+50 / -50 psf	LC-PG50	FL15816.2
	Picture (Fixed) Window (DST / .090 SGP)	64" x 64"	<0.01 cfm/ft2	12.00 psf	+65 / -65 psf	LC-PG65	FL15816.2
	Picture (Fixed) Window (DST / .090 SGP)	37" x 84"	<0.01 cfm/ft2	9.75 psf	+65 / -65 psf	LC-PG65	FL15816.2
	Picture (Fixed) Window (3ST Glass / .090 SGP)	72" x 72"	<0.01 cfm/ft2	9.75 psf	+65 / -65 psf	LC-PG65	FL15816.2
	Picture/Geometric (Fixed) Window (3ST Glass / .090 SGP)	76" x 63"	<0.01 cfm/ft2	15.00 psf	+65 / -70 psf	LC-PG65	FL15816.3
	Casement (DS / .090 PVB)	36" x 72"	<0.01 cfm/ft2	7.50 psf	+50 / -50 psf	LC-PG50	FL15817.2
	Casement (DST / .090 PVB)	36" x 72"	<0.01 cfm/ft2	15.00 psf	+55 / -50 psf	LC-PG55	FL15817.2
	Casement (DST / .090 SGP)	36" x 72"	<0.01 cfm/ft2	15.00 psf	+65 / -70 psf	LC-PG65	FL15817.2
	Awning (DS / .090 PVB)	53" x 32"	<0.01 cfm/ft2	9.75 psf	+50 / -50 psf	LC-PG50	FL15818.2
	Awning (DST / .090 PVB)	53" x 32"	<0.01 cfm/ft2	15.00 psf	+55 / -55 psf	LC-PG55	FL15818.2
	Sliding Patio Door (DST / .090 PVB)	94.5" x 94.5"	0.07 cfm/ft2	7.50 psf	+50 / -50 psf	LC-PG50	FL16216.1
	Sliding Patio Door (DST / .090 SGP)	96" x 96"	0.02 cfm/ft2	9.75 psf	+50 / -55 psf	LC-PG50	FL16216.1
	Sliding Patio Door (DST / .090 PVB)	138.9" x 94.5"	0.07 cfm/ft2	7.50 psf	+50 / -50 psf	LC-PG50	FL16216.2
Thermal Performance		LOW E (Surface 2) / CLEAR			LOW E (Surface 2) / LOW E (Surface 4)		
	U-Factor	SHGC	VT	U-Factor	SHGC	VT	
Double Hung (DS / .090 PVB)	0.32	0.23	0.44	0.29	0.21	0.40	
Double Hung (DS / .090 SGP)	0.32	0.23	0.44	0.29	0.21	0.39	
Horizontal Slider (XX) (DS / .090 PVB)	0.32	0.22	0.43	0.29	0.21	0.39	
Horizontal Slider (XX) (DS / .090 SGP)	0.31	0.22	0.43	0.28	0.21	0.38	
Horizontal Slider (XOX - 333) (DS / .090 PVB)	0.32	0.22	0.43	0.29	0.21	0.39	
Horizontal Slider (XOX - 424) (DS / .090 PVB)	0.32	0.22	0.43	0.29	0.21	0.39	
Horizontal Slider (XOX - 424) (DS / .090 SGP)	0.31	0.22	0.43	0.28	0.21	0.38	
Picture (Fixed) Window (DS / .090 PVB)	0.26	0.23	0.50	0.22	0.21	0.45	
Picture (Fixed) Window (3S Glass / .090 PVB)	0.26	0.23	0.49	0.22	0.21	0.46	
Picture (Fixed) Window (DS / .090 SGP)	0.26	0.23	0.49	0.22	0.21	0.44	
Picture/Geometric (Fixed) Window (3S Glass / .090 SGP)	0.26	0.23	0.49	0.22	0.21	0.45	
Casement (DS / .090 PVB)	0.26	0.20	0.40	0.23	0.19	0.36	
Casement (DS / .090 SGP)	0.26	0.20	0.39	0.23	0.19	0.36	
Awning (DS / .090 PVB)	0.26	0.20	0.40	0.24	0.19	0.36	
Sliding Patio Door (DST / .090 PVB) and (DST / .090 SGP)	0.31	0.23	0.44	0.28	0.23	0.45	

NOTES

- All structural testing performed on non-HVHZ approved products was done so in accordance with AAMA/WDMA/CSA 101/LS.2/A440
- All impact testing performed on non-HVHZ was done so in accordance with ASTM E 1886 & ASTM E 1996 (Missle "D" Windzone 4)
- All Insulated Glass Units (IGUs) are certified in accordance with ASTM E 2190, per NFRC requirement
- U-Factor was determined by NFRC 100-2010
- SHGC (Solar Heat Gain Coefficient) was determined by NFRC 200-2010
- VT (Visible Transmittance) was determined by NFRC 200-2010
- The use of Capillary Tubes will eliminate the use of Argon gas in the insulated glass unit and will therefore have detrimental impact to the thermal performance of the IGU
- All thermal performance values listed reflect the use of NO GRIDS
- Additional simulations are available upon request

★ Double Low E required on these Window Styles to Qualify for Energy Star® Version 6 in the North, North Central Regions & South Central Regions.

DS = Double Strength Glass

DST = Tempered Double Strength Glass

3S = Annealed Triple Strength Glass

3ST = Tempered 3/16" Glass

8800 Impact Performance / HVHZ Certified

Structural Performance

	MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING	FBC APPROVAL
★ Double Hung (DST/.090 PVB)	54" x 76"	0.06 cfm/ft ²	9.75 psf	+55 / -60 psf	LC-PG55	FL15819.3
★ Double Hung (DST/.090 SGP)	54" x 76"	0.05 cfm/ft ²	9.75 psf	+65 / -70 psf	LC-PG65	FL15819.3
★ Horizontal Slider (XX) (DST/.090 PVB)	74" x 63"	0.02 cfm/ft ²	9.75 psf	+50 / -55 psf	LC-PG50	FL16092.7
★ Horizontal Slider (XX) (DS T/.090 SGP)	74" x 63"	0.02 cfm/ft ²	9.75 psf	+65 / -75 psf	LC-PG65	FL16092.7
★ Horizontal Slider (XOX - 424) (DST/.090 PVB)	112" x 63"	0.02 cfm/ft ²	9.75 psf	+50 / -55 psf	LC-PG50	FL16092.8
★ Horizontal Slider (XOX - 424) (DST/.090 SGP)	112" x 63"	0.01 cfm/ft ²	9.75 psf	+60 / -65 psf	LC-PG60	FL16092.8
Picture (Fixed) Window (3ST Glass/.090 SGP)	76" x 63"	<0.01 cfm/ft ²	15.00 psf	+65 / -70 psf	LC-PG65	FL15816.4
Geometric (Fixed) Window (3ST Glass/.090 SGP)	76" x 63"	<0.01 cfm/ft ²	15.00 psf	+65 / -70 psf	LC-PG65	FL15816.5
Casement (DST/.090 PVB)	36" x 72"	<0.01 cfm/ft ²	15.00 psf	+55 / -50 psf	LC-PG55	FL15817.3
Casement (DS T/.090 SGP)	36" x 72"	<0.01 cfm/ft ²	15.00 psf	+65 / -70 psf	LC-PG65	FL15817.3
Awning (DST/.090 PVB)	53" x 32"	<0.01 cfm/ft ²	15.00 psf	+55 / -55 psf	LC-PG55	FL15818.3
Sliding Patio Door (DST/.090 SGP)	96" x 96"	0.02 cfm/ft ²	9.75 psf	+50 / -55 psf	LC-PG50	FL16216.3

Thermal Performance

	LOW E (Surface 2) / CLEAR			LOW E (Surface 2) / LOW E (Surface 4)		
	U-Factor	SHGC	VT	U-Factor	SHGC	VT
Double Hung (DS/.090 PVB)	0.32	0.23	0.44	0.29	0.21	0.40
Double Hung (DS/.090 SGP)	0.32	0.23	0.44	0.29	0.21	0.39
Horizontal Slider (XX) (DS/.090 PVB)	0.32	0.22	0.43	0.29	0.21	0.39
Horizontal Slider (XX) (DS/.090 SGP)	0.31	0.22	0.43	0.28	0.21	0.38
Horizontal Slider (XOX - 333) (DS/.090 PVB)	0.32	0.22	0.43	0.29	0.21	0.39
Horizontal Slider (XOX - 424) (DS/.090 PVB)	0.32	0.22	0.43	0.29	0.21	0.39
Horizontal Slider (XOX - 424) (DS/.090 SGP)	0.31	0.22	0.43	0.28	0.21	0.38
Picture (Fixed) Window (3ST Glass/.090 SGP)	0.26	0.23	0.49	0.22	0.21	0.45
Geometric (Fixed) Window (3ST Glass/.090 SGP)	0.26	0.23	0.49	0.22	0.21	0.45
Casement (DS/.090 PVB)	0.26	0.20	0.40	0.23	0.19	0.36
Casement (DS/.090 SGP)	0.26	0.20	0.39	0.23	0.19	0.36
Awning (DS/.090 PVB)	0.26	0.20	0.40	0.24	0.19	0.36
Sliding Patio Door (DST/.090 PVB) and (DST/.090 SGP)	0.31	0.23	0.44	0.28	0.23	0.45

NOTES

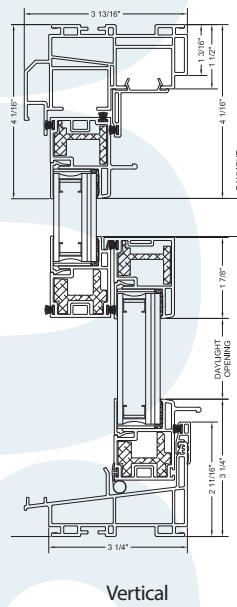
- All structural testing performed on non-HVHZ approved products was done so in accordance with AAMA/WDMA/CSA 101/I.S.2/A440
- All impact testing performed on non-HVHZ was done so in accordance with ASTM E 1886 & ASTM E 1996 (Missle "D" Windzone 4)
- All structural testing performed on HVHZ approved products was done so in accordance with TAS 202
- All impact testing performed on HVHZ approved products was done so in accordance with TAS 201 and TAS 203
- All Insulated Glass Units (IGUs) are certified in accordance with ASTM E 2190, per NFRC requirement
- U-Factor was determined by NFRC 100-2010
- SHGC (Solar Heat Gain Coefficient) was determined by NFRC 200-2010
- VT (Visible Transmittance) was determined by NFRC 200-2010
- The use of Capillary Tubes will eliminate the use of Argon gas in the insulated glass unit and will therefore have detrimental impact to the thermal performance of the IGU
- All thermal performance values listed reflect the use of NO GRIDS
- Additional simulations are available upon request

★ Double Low E required on these Window Styles to Qualify for Energy Star® Version 6 in the North, North Central Regions & South Central Regions.

DS = Double Strength Glass
 DST = Tempered Double Strength Glass
 3S = Annealed Triple Strength Glass
 3ST = Tempered 3/16" Glass

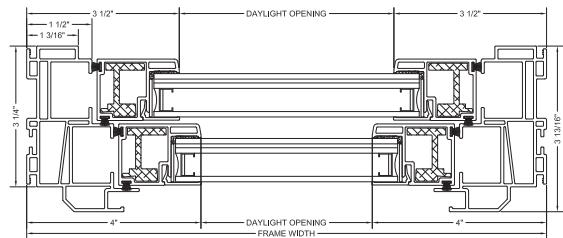


8800 High Performance / Impact – Cross Sections



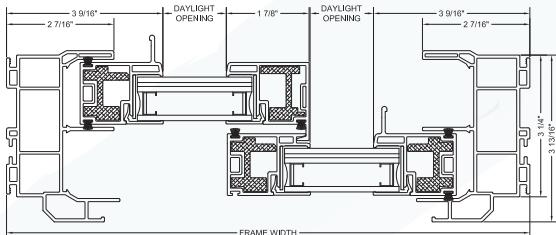
Vertical

Double Hung



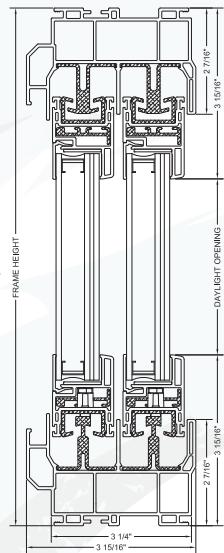
Horizontal

Double Slider



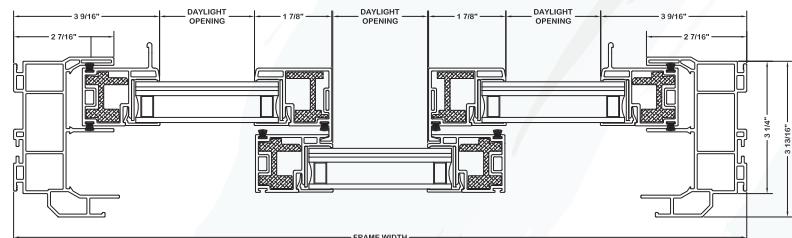
Horizontal

Impact

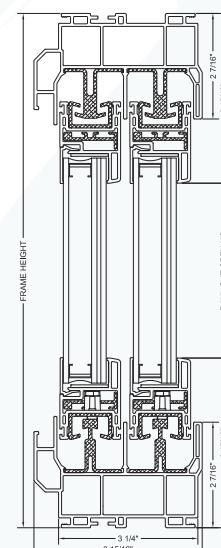


Vertical

3-Lite End Vent Slider



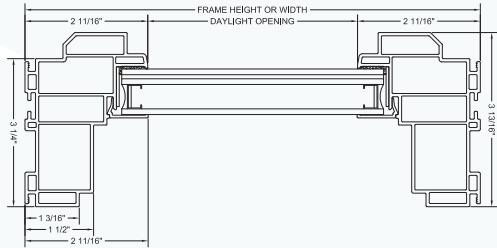
Horizontal



Vertical

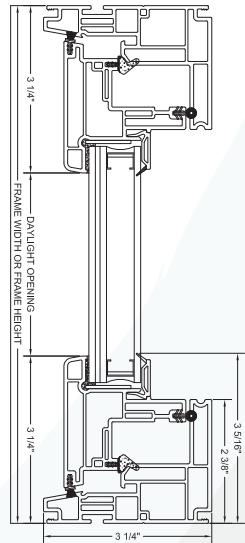
8800 High Performance / Impact – Cross Sections

Picture Window



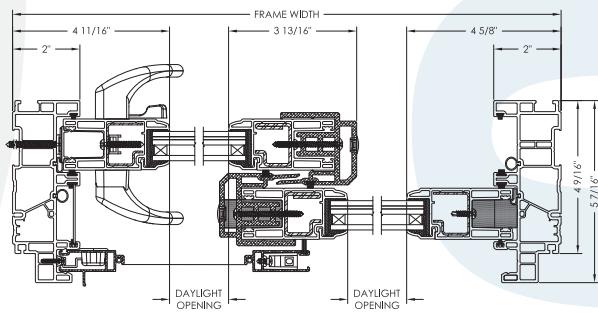
Horizontal / Vertical

Casement / Awning

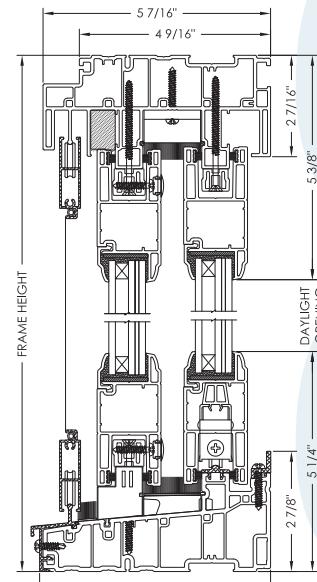


Horizontal / Vertical

Sliding Patio Door



Horizontal



Vertical



8400 High Performance / Non-Impact

Structural Performance

	MAXIMUM TEST SIZE	AIR INFILTRATION RESISTANCE	WATER TEST PRESSURE	DESIGN PRESSURE	OVERALL PERFORMANCE RATING	FBC APPROVAL			
★ Double Hung (DS)	48" x 72"	<0.01 cfm/ft ²	9.75 psf	+60 / -65 psf	LC-PG60	FL15819.1			
★ Double Hung (DS)	54" x 84"	0.02 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50	FL15819.1			
★ Double Hung (DST)	54" x 76"	0.10 cfm/ft ²	9.75 psf	+65 / -70 psf	LC-PG65	FL15819.1			
★ Horizontal Slider (XX) (DS)	74" x 62"	<0.01 cfm/ft ²	9.75 psf	+50 / -50 psf	LC-PG50	FL16092.1			
★ Horizontal Slider (XX) (DST)	74" x 63"	0.07 cfm/ft ²	9.75 psf	+60 / -65 psf	LC-PG60	FL16092.1			
★ Horizontal Slider (XOX - 333) (DS)	110" x 62"	0.02 cfm/ft ²	9.75 psf	+50 / -50 psf	LC-PG50	FL16092.3			
★ Horizontal Slider (XOX - 424) (DS)	110" x 62"	0.01 cfm/ft ²	9.75 psf	+50 / -50 psf	LC-PG50	FL16092.2			
★ Horizontal Slider (XOX - 424) (DST)	112" x 63"	0.07 cfm/ft ²	9.75 psf	+60 / -65 psf	LC-PG60	FL16092.2			
Picture (Fixed) Window (DS)	48" x 60"	<0.01 cfm/ft ²	12.00 psf	+50 / -50 psf	LC-PG50	FL15816.1			
Picture (Fixed) Window (3ST Glass)	64" x 64"	<0.01 cfm/ft ²	12.00 psf	+65 / -65 psf	LC-PG65	FL15816.1			
Picture (Fixed) Window (3ST Glass)	72" x 72"	<0.01 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50	FL15816.1			
Picture (Fixed) Window (DST)	37" x 84"	<0.01 cfm/ft ²	9.75 psf	+65 / -65 psf	LC-PG65	FL15816.1			
Picture (Fixed) Window (DST)	72" x 72"	<0.01 cfm/ft ²	9.75 psf	+55 / -65 psf	LC-PG55	FL15816.1			
Picture (Fixed) Window (3ST Glass)	76" x 63"	<0.01 cfm/ft ²	15.00 psf	+80 / -80 psf	LC-PG80	FL15816.1			
Casement (DS)	36" x 71.85"	<0.01 cfm/ft ²	7.50 psf	+50 / -50 psf	LC-PG50	FL15817.1			
Casement (DST)	36" x 72"	0.02 cfm/ft ²	15.00 psf	+65 / -65 psf	LC-PG65	FL15817.1			
Awning (DS)	53" x 32"	<0.01 cfm/ft ²	9.75 psf	+55 / -55 psf	LC-PG55	FL15818.1			
Awning (DST)	53" x 32"	<0.01 cfm/ft ²	15.00 psf	+65 / -65 psf	LC-PG65	FL15818.1			
Thermal Performance	LOW E (Surface 2) / CLEAR			LOW E (Surface 2) / LOW E (Surface 4)			LOW E (Surface 2) / CLEAR / Low E (Surface 5)		
	U-Factor	SHGC	VT	U-Factor	SHGC	VT	U-Factor	SHGC	VT
Double Hung (DS)	0.32	0.23	0.45	0.29	0.22	0.41	0.27	0.19	0.32
Horizontal Slider (XX) (DS)	0.32	0.22	0.44	0.29	0.21	0.40	0.26	0.19	0.31
Horizontal Slider (XOX - 333) (DS)	0.32	0.22	0.44	0.29	0.21	0.40	0.26	0.19	0.31
Horizontal Slider (XOX - 424) (DS)	0.32	0.22	0.44	0.29	0.21	0.40	0.26	0.19	0.31
Fixed Window (3S Glass)	0.27	0.23	0.50	0.23	0.22	0.46	N/A	N/A	N/A
Fixed Window (DS)	0.26	0.23	0.51	0.22	0.22	0.46	0.20	0.22	0.36
Casement (DS)	0.26	0.21	0.41	0.23	0.19	0.37	0.21	0.18	0.29
Awning (DS)	0.26	0.21	0.41	0.23	0.19	0.37	0.21	0.18	0.29

NOTES

- All structural testing performed was done so in accordance with AAMA/WDMA/CSA 101/I.S.2/A440
- All Insulated Glass Units (IGUs) are certified in accordance with ASTM E 2190, per NFRC requirement
- U-Factor was determined by NFRC 100-2010
- SHGC (Solar Heat Gain Coefficient) was determined by NFRC 200-2010
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DS = Double Strength Glass

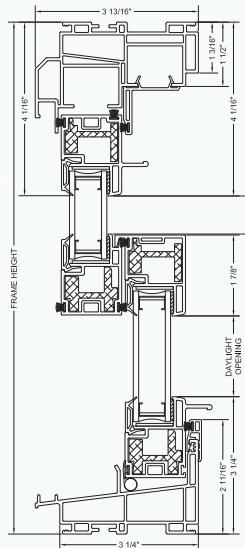
DST = Tempered Double Strength Glass

3S = Annealed Triple Strength Glass

3ST = Tempered 3/16" Glass

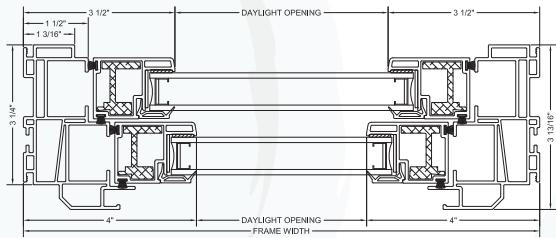


8400 High Performance / Non-Impact – Cross Sections



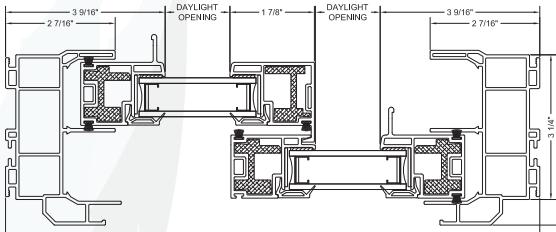
Vertical

Double Hung

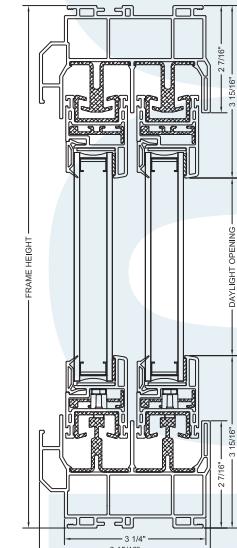


Horizontal

Double Slider

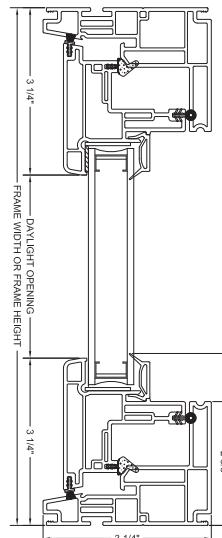


Horizontal

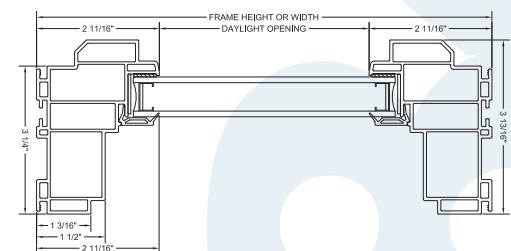


Vertical

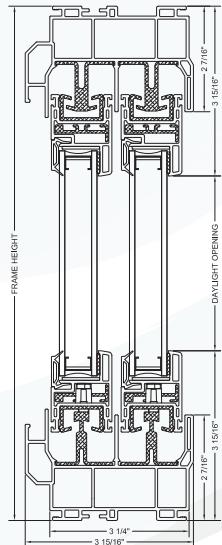
Casement / Awning



Picture Window

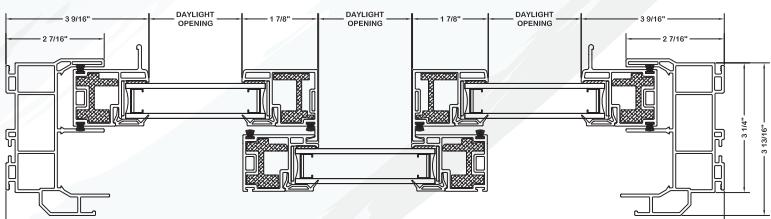


Horizontal / Vertical



Vertical

3-Lite End Vent Slider



Horizontal

Horizontal / Vertical

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