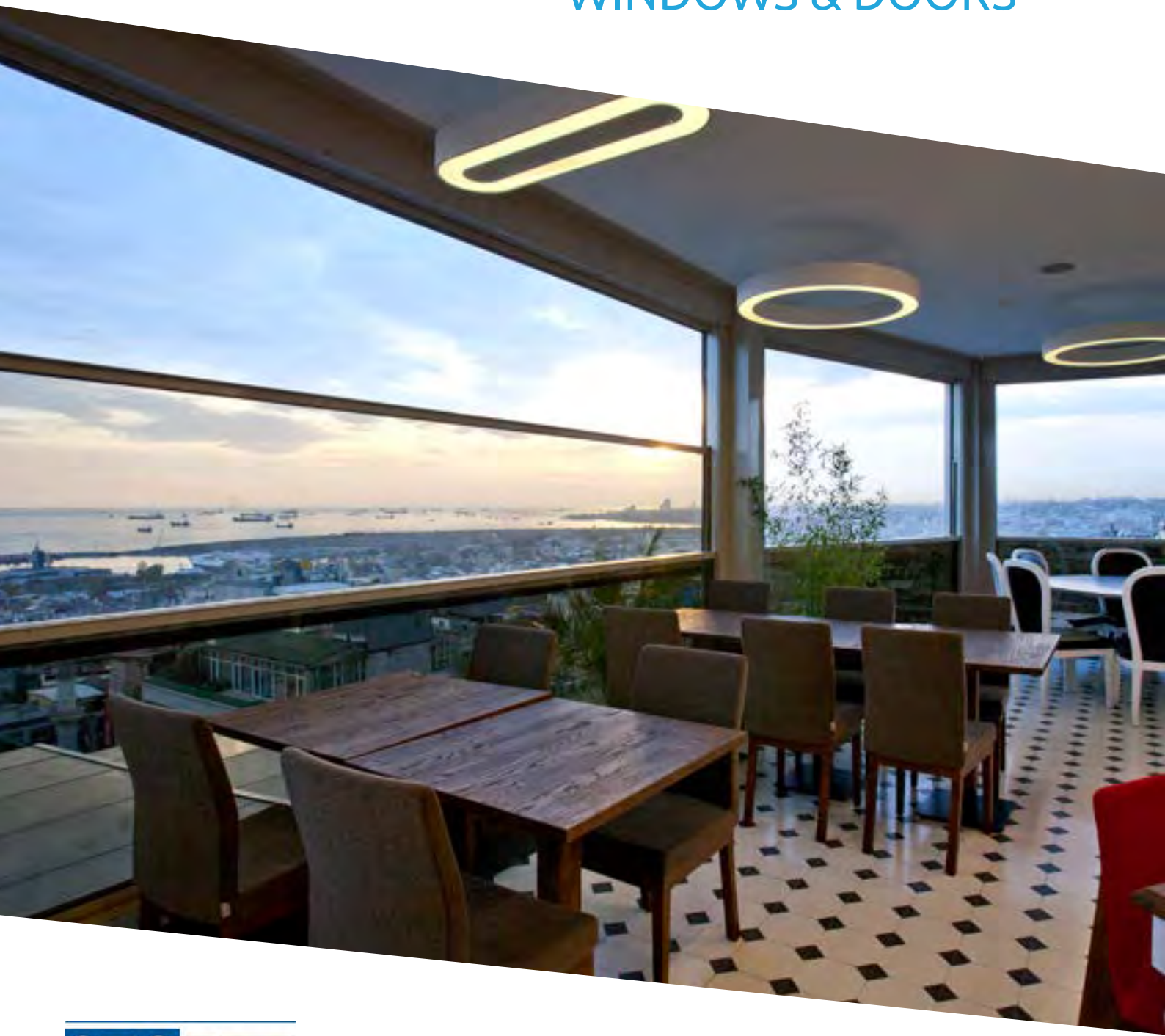


PANORAMA  
FOR A BETTER VIEW  
by Libart

## VERTICAL RETRACTING WINDOWS & DOORS



STOETT  
OUTDOORS





# A New Solution for Windows and Doors “For a Better View!”

Libart’s Panora vertical retracting windows and doors are shifting the paradigm of architectural window and door solutions.

Panora’s large span, vertical retracting windows and doors provide you with an unobstructed view within the existing structural supports of your building.



## Simply put, “For a Better View!”

Imagine a window or a door that visually and virtually disappears when opened. Panora Systems provide vast uninterrupted access to outdoors.



NEW APPROACHES FOR A BETTER VIEW!

BETTER VIEW

WHEN CLOSED

VIRTUALLY FREE OF FRAMES

MAXIMUM VIEW

WHEN OPEN

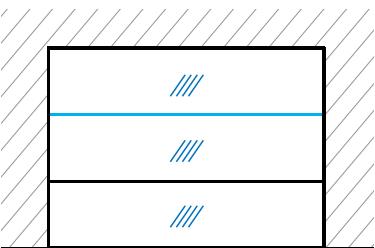
FREE OF FRAMES

Better View With Panora Vertical Retracting Door & Window

PANORA

Vertical Retracting Door & Window

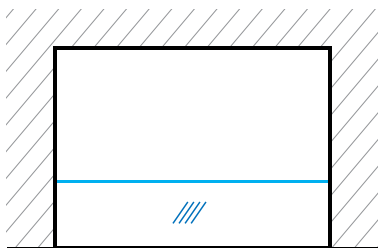
4



PANORA

Vertical Retracting Door & Window

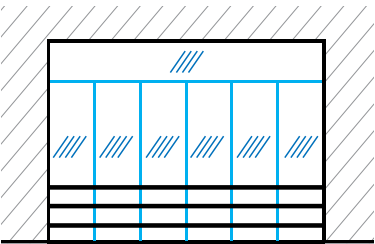
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Limited View With Sliding And Folding Systems

TRADITIONAL  
Approaches

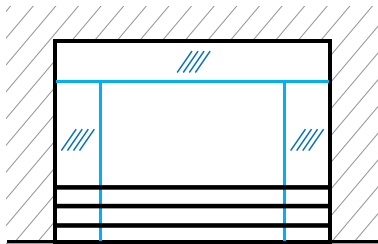
X



profiles in view when closed

TRADITIONAL  
Approaches

X



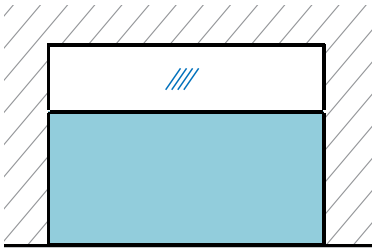
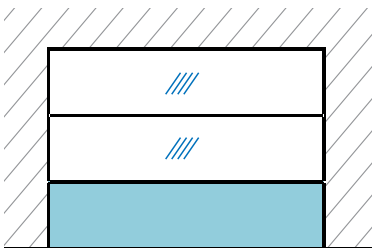
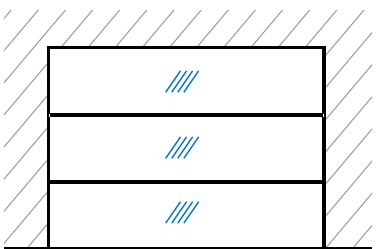
profiles in view when opened

BETTER VENTILATION

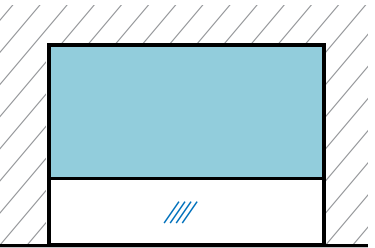
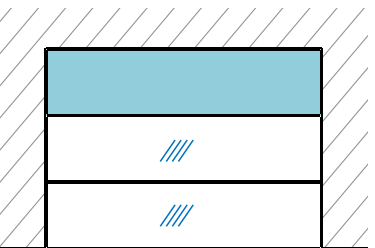
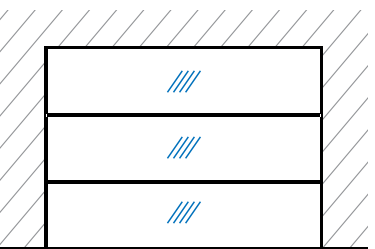
CLIMATE CONTROL

Better Ventilation Control With Panora Systems

Door Option



Window Option

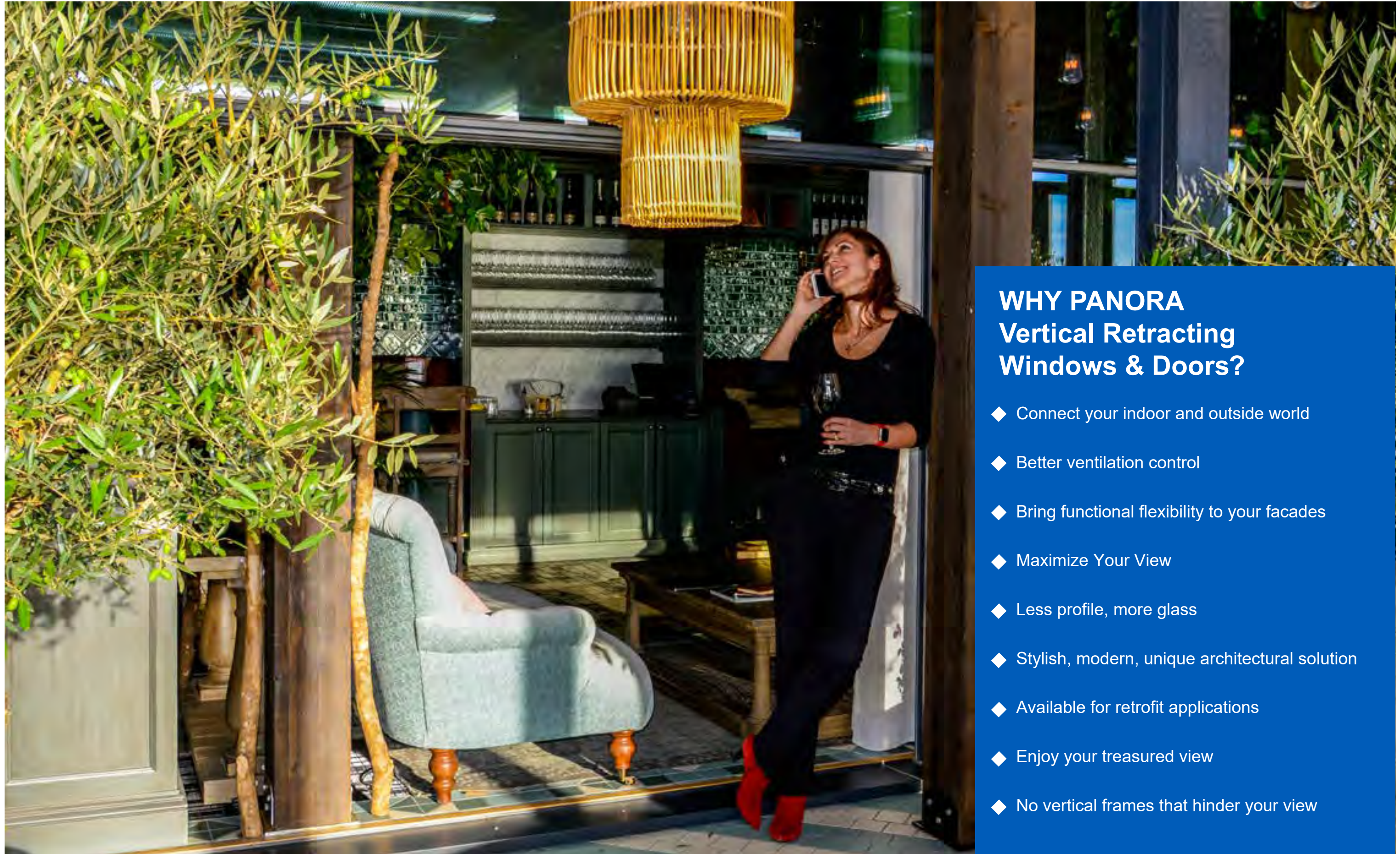


Panora can protect you from wind,  
while regulating the amount of fresh  
air.

VALUE OF VIEW

INDOOR COMFORT





## WHY PANORA Vertical Retracting Windows & Doors?

- ◆ Connect your indoor and outside world
- ◆ Better ventilation control
- ◆ Bring functional flexibility to your facades
- ◆ Maximize Your View
- ◆ Less profile, more glass
- ◆ Stylish, modern, unique architectural solution
- ◆ Available for retrofit applications
- ◆ Enjoy your treasured view
- ◆ No vertical frames that hinder your view





## CAROLINA ALE HOUSE

Project Code : # 4833  
Location : USA  
Size : 11.5' x 11.8'  
Operation Mode : W3 (Window)

The Carolina Ale House is a successful US restaurant chain. The proprietors wanted to create an outdoor atmosphere for their clients while protecting them from changing weather conditions. Panora Vertical Retracting Windows accomplishes that with natural light, controllable airflow, and unobstructed views. A natural microclimate solution that provides more window, less obstruction, and higher customer satisfaction.

## LONDON WALL PLACE

Project Code : # 2080  
Location : United Kingdom  
Size : 9.8' x 13.1' (3 units)  
Operation Mode : D4 (Door)

This café wanted to blend their indoor space and outside seating to maximize their patron's experience. Libart's Panora Vertical Retracting Windows allow the spaces to flow together without any loss of interior or exterior space. Panora's minimalistic design complements the blend of modern and classic architecture of the café. Open or closed Panora provides a relaxing view of this oasis of calm in the middle of the busy city.





## COOPERS HAWK LIBERTY

Project Code : # 2401  
Location : USA  
Size : 157" x 157" (2 units)  
Operation Mode : D4 (Door)

When you run a sports bar, you need the flexibility to increase your usable space during the big game. With Panora Vertical Retracting Doors, inside venue can be integrated into the outdoor seating within minutes. Panora Door Systems can retract upwards to create unobstructed access, removing the barrier where there were once glass walls, simple connecting your indoor spaces with the outdoors.

## VALLGATAN COFFEE SHOP

Project Code : # 4126  
Location : Sweden  
Size : 157" x 110"  
Operation Mode : W2 (Window)

The Panora fulfilled the architect and owners' design dreams. Panora Window System provided wide open counter space as part of the interior counter extension when open, and full glass wall when closed. In this project a three frame Panora Window is used, with the top small glass fixed, middle retraction down.





## BRASSERIE LIPP

Project Code : # 3487  
Location : Sweden  
Size : 9.8' x 9.8'  
Operation Mode : D3 (Door)

The Client wanted to integrate their indoor space and outdoor seating in good weather while retaining maximum table space. Libart's Panora Vertical Retracting Door's systems has provided this in a big way. Large glass windows that retract up to create an unobstructed space between inside and outside provide an excellent alternative to classic sliding or folding doors & windows.



## PANORA FAÇADE RESIDENCE

Project Code : # 3285  
Location : Turkey  
Size : 138" x 90" - 162" x 90"  
Operation Mode : W2 (Window)

Creating a comfortable home with a sense of spaciousness is a foundational design goal. Integrating Panora windows into your home can play a big role in creating the space you want by providing unobstructed views that blur the inside and out. This project is an excellent example of how Panora vertical retracting maxi façade windows can maximize your sea and countryside views from your favorite chair.



ONE SIZE DOES NOT FIT ALL

Options to suit unique design needs and budgets

PANORA MAXI GUM & GUM+

Ideal where design flexibility, excellent weather, and thermal performance is of importance. Up to 8 different configurations, 1 to 4 frames allowing for 50%, 66%, or 75% opening as a window or a door. Sizes ranging from 196" width to 236" in height. New or retrofit installation. Designed with thermally broken structural system, motor box, and window. Frames will accept IG of up to 1.25".

PANORA FAÇADE GUF & GUF+

Designed for curtain wall or residential applications where excellent weather and thermal performance is of importance. 2 frame system allowing for 50% opening as a window or a door. Sizes ranging from 177" width to 236" in height. New or retrofit installation. Designed with thermally broken structural system, motor box, and window frames. Frames will accept IG of up to 1.4".

PANORA MAX GUL

Cost effective system, good weather performance, ideal for installations where extreme thermal insulation is not a priority, and cost is! Up to 6 different configurations, 1 to 3 frames allowing for 50%, 66% opening as a window, door, interior divider or countertop application. Sizes ranging from 142" width to 142" in height. New or retrofit installation. Non-thermally broken profile system. Frames will accept Single or IG of up to .7".

VALUE FOR YOUR INVESTMENT

3 Unique Systems to Suit Specific Needs, Cimate, Sizes, and Budget Flexibility of Configuration, Safety Features, and Aesthetics Integrated Indoor/Outdoor Space Increases Revenue Potential

Function
Open/close with button, remote or central automation systems. No additional space is required for stack-ing when opened. Uninterrupted openings of up to 19.7' with no vertical profiles

Quality
Custom designed aluminum system (6063-T6). Electrostatic baked on powder coating. All components and fittings are of corrosion resistant materials. 25+ years of expertise in 40+ countries.

Innovation
Alternative to sliding, swinging or folding windows & doors. More glass, less frame (up to 19.7' without vertical profiles). No counterweights. Easy Retrofit Option.

PANORA (GU) SYSTEMS PRODUCTION PROGRAM & OPTIONS

		MAXI (GUM & GUM+)		MAXI FAÇADE (GUF & GUF+)		MAX (GUL)
		Standard GUM	Optional GUM+	Standard GUF	Optional GUF+	Standard
Mechanical & Electrical	Motor Type & Voltage	120Nm - 220VAC/50hz	300Nm - 220VAC/50hz	120Nm - 220VAC/50hz	300Nm - 220VAC/50hz	120Nm - 220VAC/50hz
	Retraction Mechanism Type	Proprietary gearbox. 1/2" chain driven system		Proprietary gearbox. 1/2" chain driven system		Direct drive, 1/2" chain driven system
	Opening & Closing speed	About 9.1" min	About 6.4" min	About 6.7" min	About 5.0" min	About 2.2 m/min (7.5' min)   About 2.8 m/min (9.2' min)
	Control System	Single Chanel Wireless Remote Control (MC200 Receiver) Optional: Multi Channel Wireless Remote (6, 18, 99 channel) My Nice Automation (BAS) integration.		Single Chanel Wireless Remote Control (MC200 Receiver) Optional: Multi Channel Wireless Remote (6, 18, 99 channel). My Nice Automation (BAS) integration.		Toggle Switch (Non latching) Optional: Multi Channel Wireless Remote (6, 18, 99 channel). My Nice Automation (BAS) integration.
	Closed Door Lock	Optional: Electro Mechanical Latch System (for Door version only)		Optional: Electro Mechanical Latch System (for Door version only)		Optional: Electro Mechanical Latch System (for Door version only)
	Safety Sensors	One inferred safety sensor Optional: Light Barrier (exterior). Second inferred safety sensor		One inferred safety sensor for Doors Optional: One inferred safety sensor for Window systems		N/A Optional: One inferred safety sensor
	Motor Box & System Width	w x h: 6.4" x 7.2"	w x h: 6.4" x 8.3"	w x h: 4.9" x 7.2"	w x h: 4.9" x 8.3")	w x h: 4.9" x 4.9"
Structural	Design Options	1 sash (100% opening), 2 sash (%50 opening), 3 sash (66% opening), 4 sash (75% opening). As window or door		1 sash (100% opening), 2 sash (50% opening) As Window or Door		2 sash (50% opening), 3 sash (66% opening) As Window, Door or Countertop
	Glazing	IG up to 1 9/32"		IG up to 1 1/2"		IG up to 20mm or Single Glazing 6, 8, 55.4mm
	Structural Fin	Optional: Single or Dual Structural Fin, 3 5/32" or 5 1/8"		Optional: Single or Dual Structural Fin, 3 5/32" or 5 1/8")		Optional: Single or Dual Structural Fin, 3 5/32" or 5 1/8"
	Balustrade Bar	Optional, Windows Only		Optional, Windows Only		Optional, Windows Only
	Operable Glazed Sash Weight	Up to 460 lbs.	Up to 1,300 lbs.	Up to 460 lbs.	Up to 1,300 lbs.	Up to 410 lbs., for 220VAC
	Maximum Height	236"		236"		142"
	Maximum Width	196"		177"		142"
Standards	Weather Seals	Silent-fin, Brush Pile with PVC fin and EPDM gaskets		Silent-fin, Brush Pile with PVC fin and EPDM gaskets		Silent-fin, Brush Pile with PVC fin and EPDM gaskets
	Profile Type	Thermally broken; Motor box, Sash, Jamb. All aluminum 6063-T5 alloy		Thermally broken; Motor box, Sash, Jamb. All aluminum 6063-T5 alloy		Non-thermally broken; Motor box, Sash, Jamb. All aluminum 6063-T5 alloy
	Surface Finish	Electrostatic baked-on powder coating Optional: Pre-treated Seaside Corrosion Protection		Electrostatic baked-on powder coating Optional: Pre-treated Seaside Corrosion Protection		Electrostatic baked-on powder coating Optional: Pre-treated Seaside Corrosion Protection
	System Color	Standard RAL (8003, 9005, 9010, 1019, 7016, 8014, 9006, 7024) Optional: Other RAL colors & Custom colors		Standard RAL (8003, 9005, 9010, 1019, 7016, 8014, 9006, 7024) Optional: Other RAL colors & Custom colors		5 standard RAL colors (7024, 9005, 9010, 9006, 1019)
	Watertightness EN 12208	Class 7A (at 600 Pa)		Class 7A (at 600 Pa)		Class 5A (at 250 Pa)
	Resistance to Safety Load EN 12210	OK (at +1200 Pa) ; OK (at -1200 Pa)		OK (at +1200 Pa) ; OK (at -1200 Pa)		OK (at +800 Pa) ; OK (at -800 Pa)
	Air Permeability EN 12207	Class 4 (at +600 Pa) ; Class 4 (at -600 Pa)		Class 4 (at +600 Pa) ; Class 4 (at -600 Pa)		Class 2 (at +600 Pa) ; Class 2 (at -600 Pa)
	Resistance to Wind Load EN 12210	Class A1 (at +800 Pa) ; Class A1 (at -800 Pa)		Class A1 (at +800 Pa) ; Class A1 (at -800 Pa)		Class B2 (at +800 Pa) ; Class B2 (at -800 Pa)
	Maximum Thermal Insulation (Uw)	U <sub>w</sub> = 1.60 (W/m²K) [with Ug=1.1(W/m²K) glass]		U <sub>w</sub> = 1.56 (W/m²K) [with Ug=1.1(W/m²K) glass]		U <sub>w</sub> = 2,9 (W/m²K) [with 5mm + 10 + 5mm]



# PANORA MAXI (GUM & GUM+)

Ideal where design flexibility, excellent weather, and thermal performance is of importance.

Up to 8 different configurations, 1 to 4 frames allowing for 50%, 66%, or 75% opening as a window or a door

Operable glazed frame weight up to 1455 lbs

Sizes ranging from 196" width to 236" in height

Structural fin support system for strong wind support

Balustrade option for window models

Minimalistic frames 6.4" deep x 2.6" jambs, and 1.5" frames

New or retrofit installation with ease, no need for special gutter or hidden counterweights

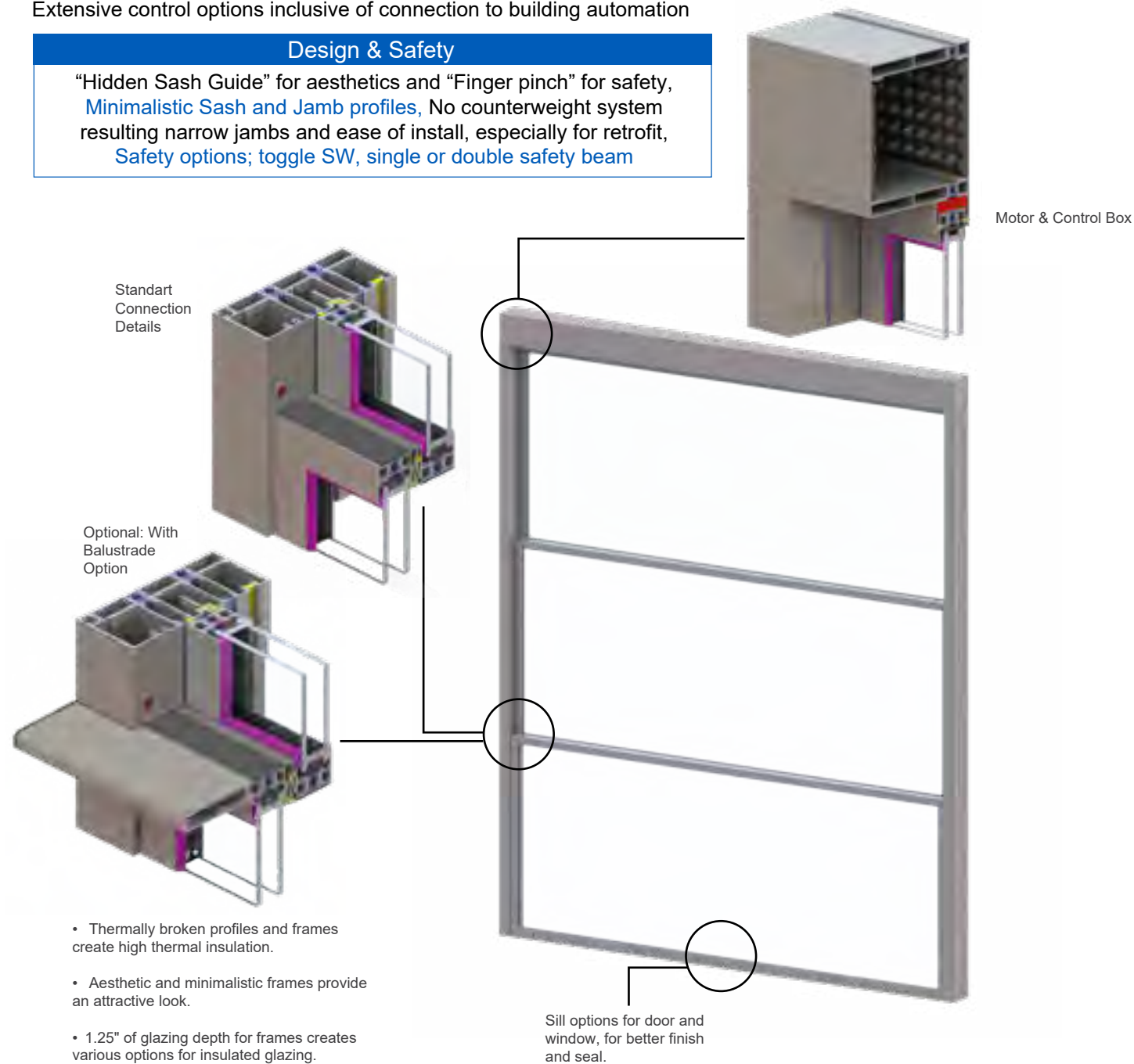
Designed with thermally broken structural system, motor box and window frames to provide excellent insulation, up to .28 U-Value

Frames will accept IG of up to 1.25"

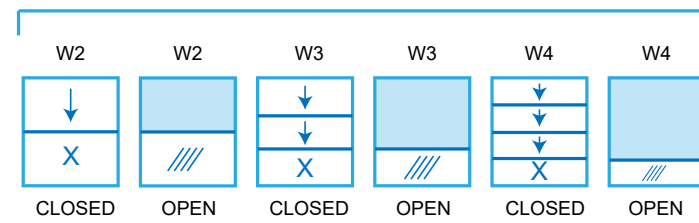
Extensive control options inclusive of connection to building automation

## Design & Safety

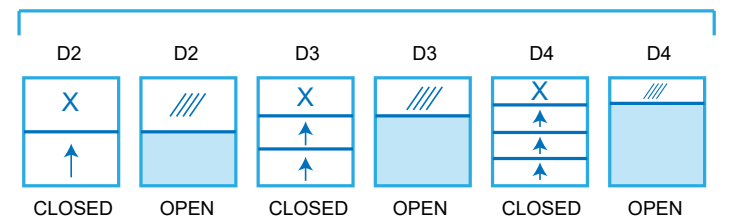
"Hidden Sash Guide" for aesthetics and "Finger pinch" for safety, Minimalistic Sash and Jamb profiles, No counterweight system resulting narrow jambs and ease of install, especially for retrofit, Safety options; toggle SW, single or double safety beam



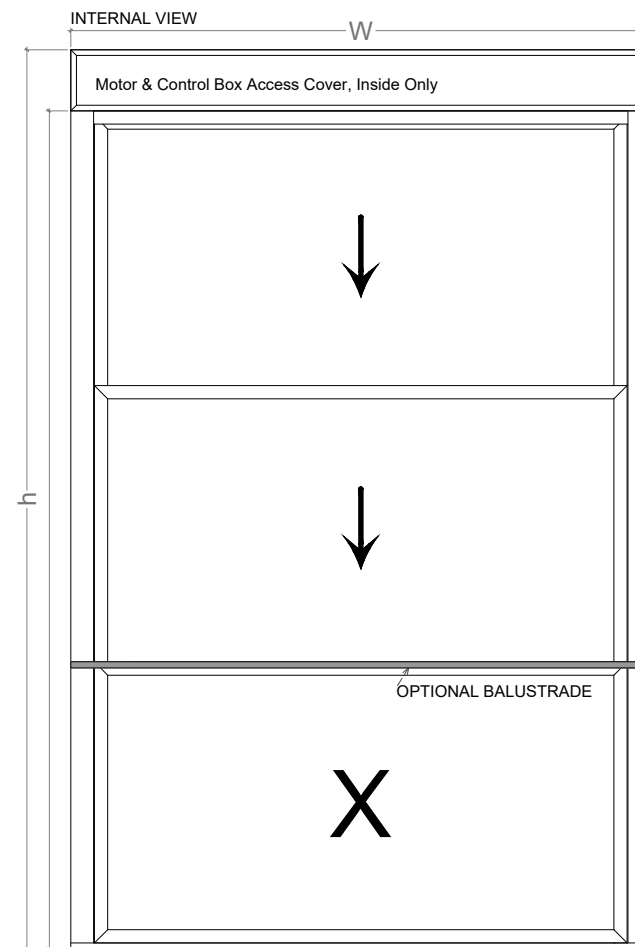
## WINDOWS MODELS



## DOORS MODELS



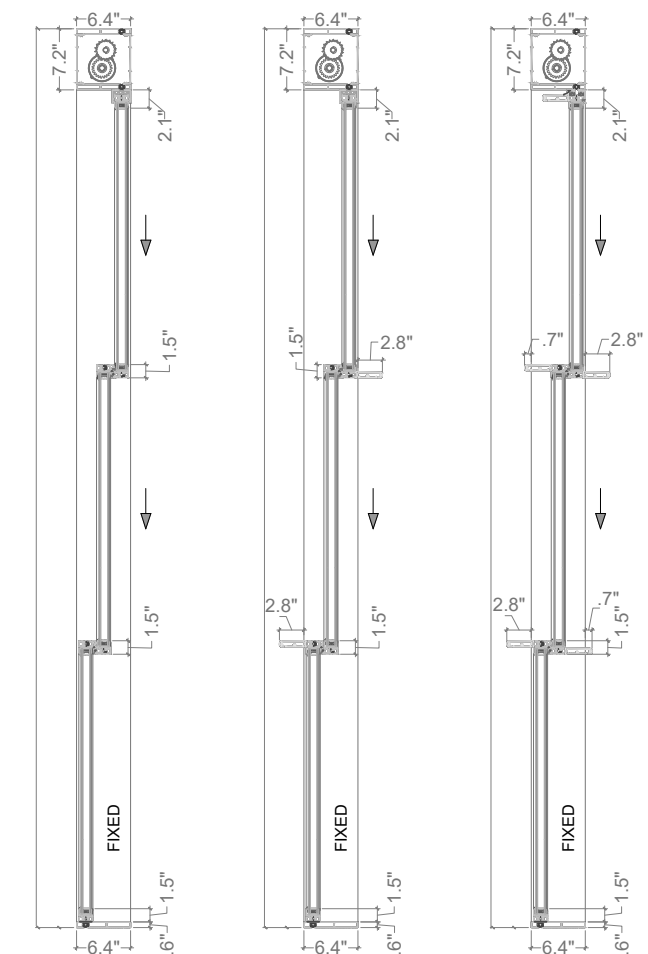
## PANORA MAXI-GUM W3



### Standard

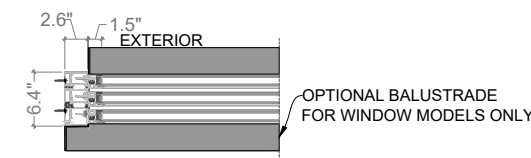
### With Single Support Set

### With Double Support Set



STRUCTURAL FIN / 3.1"

5.1"



GUM MOTOR BOX

GUM+ MOTOR BOX

Total operating glazed frame weight should not exceed over 660 lbs.

GUM systems are available with or without glazing. Frames can be locally glazed by installers.

\*Maximum operable dimensions are dependent on the operable glazed frame weight.

\*\*Maximum thermal insulation is possible with high performance glass. Ask your project consultant for information.



# PANORA FAÇADE (GUF & GUF+)

Designed for curtain wall or residential applications where excellent weather and thermal performance is of importance

2 frame system allowing for 50% opening as a window or a door

Operable glazed frame weight up to 1609 lbs

Sizes ranging from 177" width to 236" in height

Structural fin support system for strong wind support

Balustrade option for Window models

Minimalistic frames 4.9" deep x 2.6" jambs, and 1.5" frames

New or retrofit installation with ease, no need for special gutter or hidden counterweights

Designed with thermally broken structural system, motor box and window frames to provide excellent insulation, up to .28 U-Value

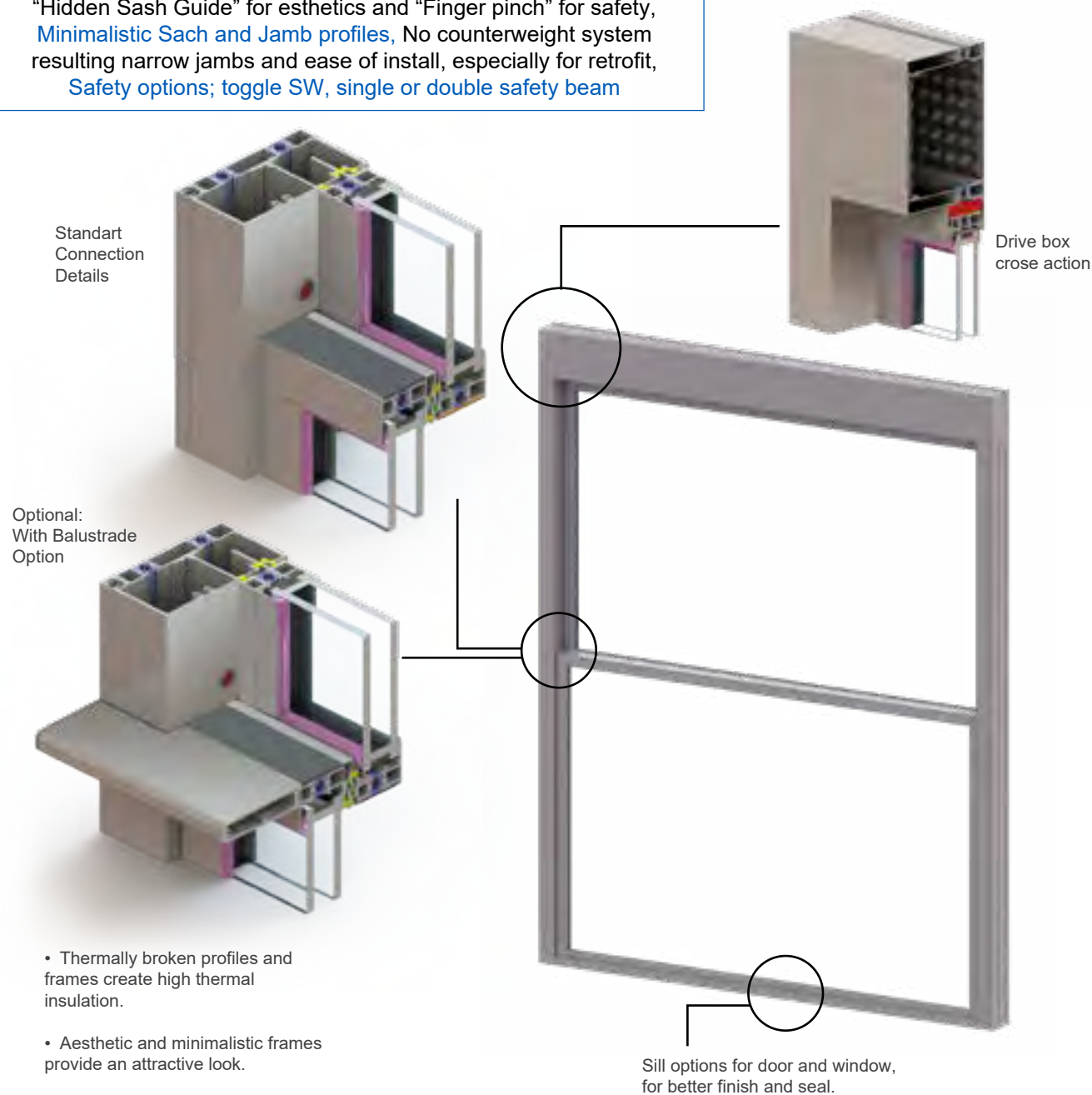
to .28 U-Value

Frames will accept IG of up to 1.4"

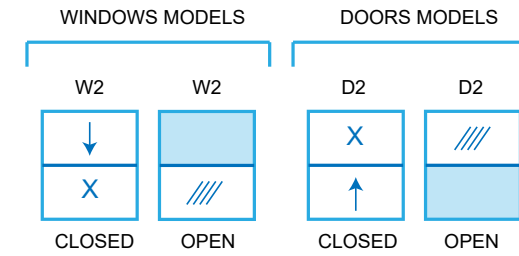
Extensive control options inclusive of connection to building automation

## Design & Safety

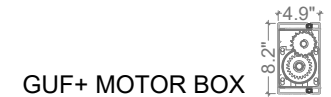
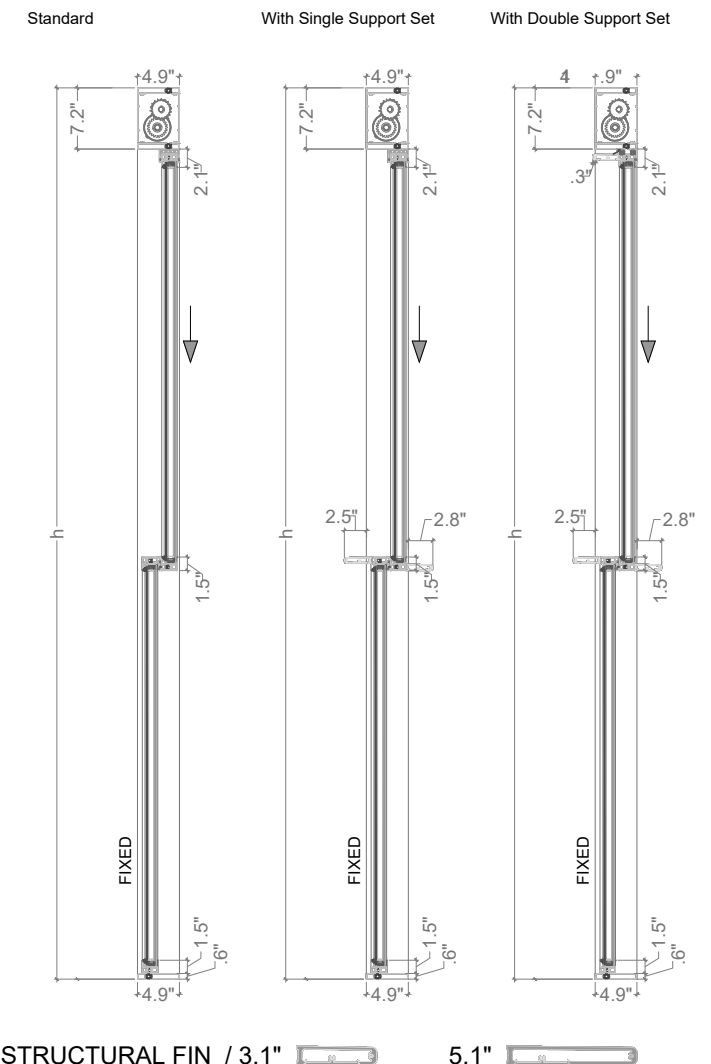
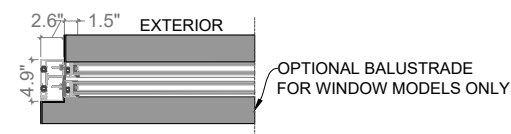
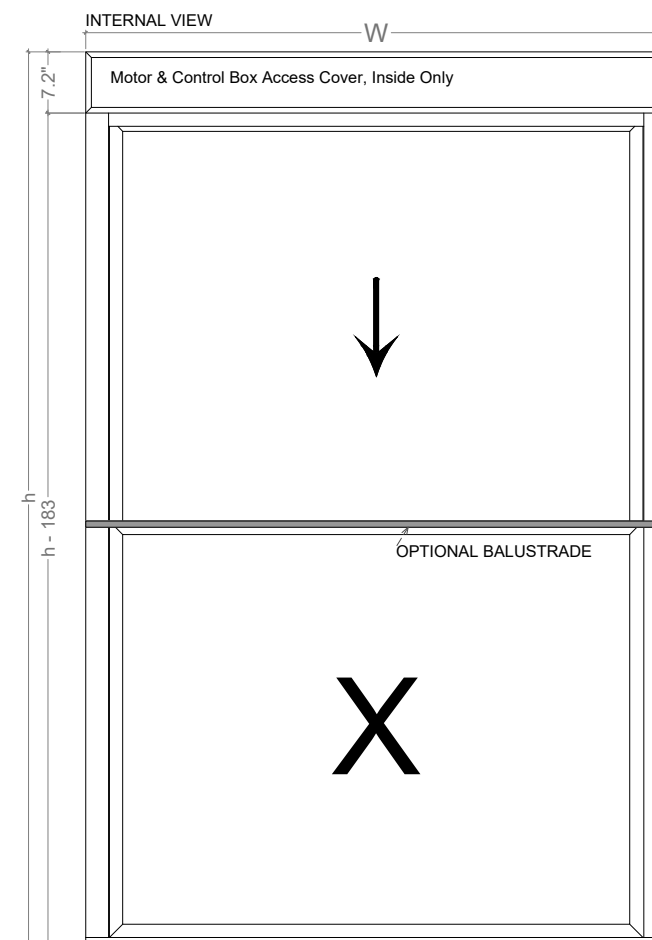
"Hidden Sash Guide" for esthetics and "Finger pinch" for safety, Minimalistic Sash and Jamb profiles, No counterweight system resulting narrow jambs and ease of install, especially for retrofit, Safety options; toggle SW, single or double safety beam



- Thermally broken profiles and frames create high thermal insulation.
- Aesthetic and minimalistic frames provide an attractive look.



## PANORA FACADE-GUF W2



Total operating glazed frame weight should not exceed over 617 lbs

GUF systems are available with or without glazing. Frames can be locally glazed by installers.

\*Maximum operable dimensions are dependent on the operable glazed frame weight.

\*\*Maximum thermal insulation is possible with high performance glass. Ask your project consultant for information.



# PANORA MAX (GUL)

Cost effective system with good weather performance, ideal for installations where extreme thermal insulation is not a priority and cost is!

Up to 5 different configurations, 2 to 3 frames allowing for 50%, 66% opening as a Window, Door, Interior divider or counter top applications

Operable glazed frame weight up to 418 lbs, sizes ranging from 142" width to 142" in height

Structural fin support system for strong wind support, balustrade option for Window models

Minimalistic frames 4.9" deep x 2.9" jams, and 1.5" frames

New or retrofit installation with ease, no need for special gutter or hidden counterweights

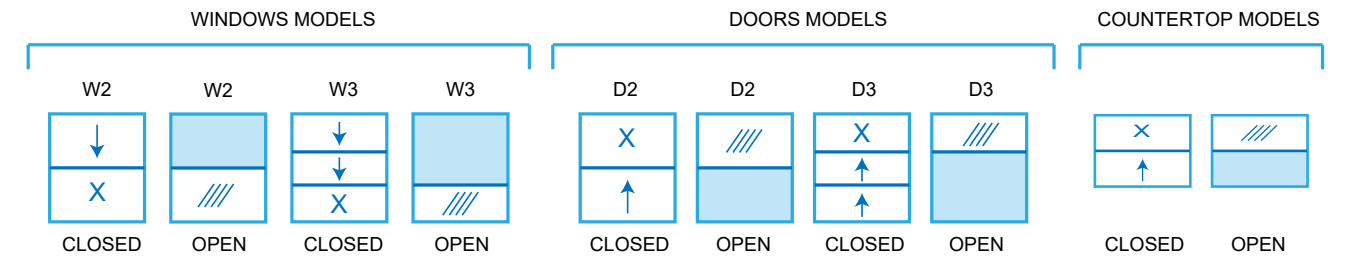
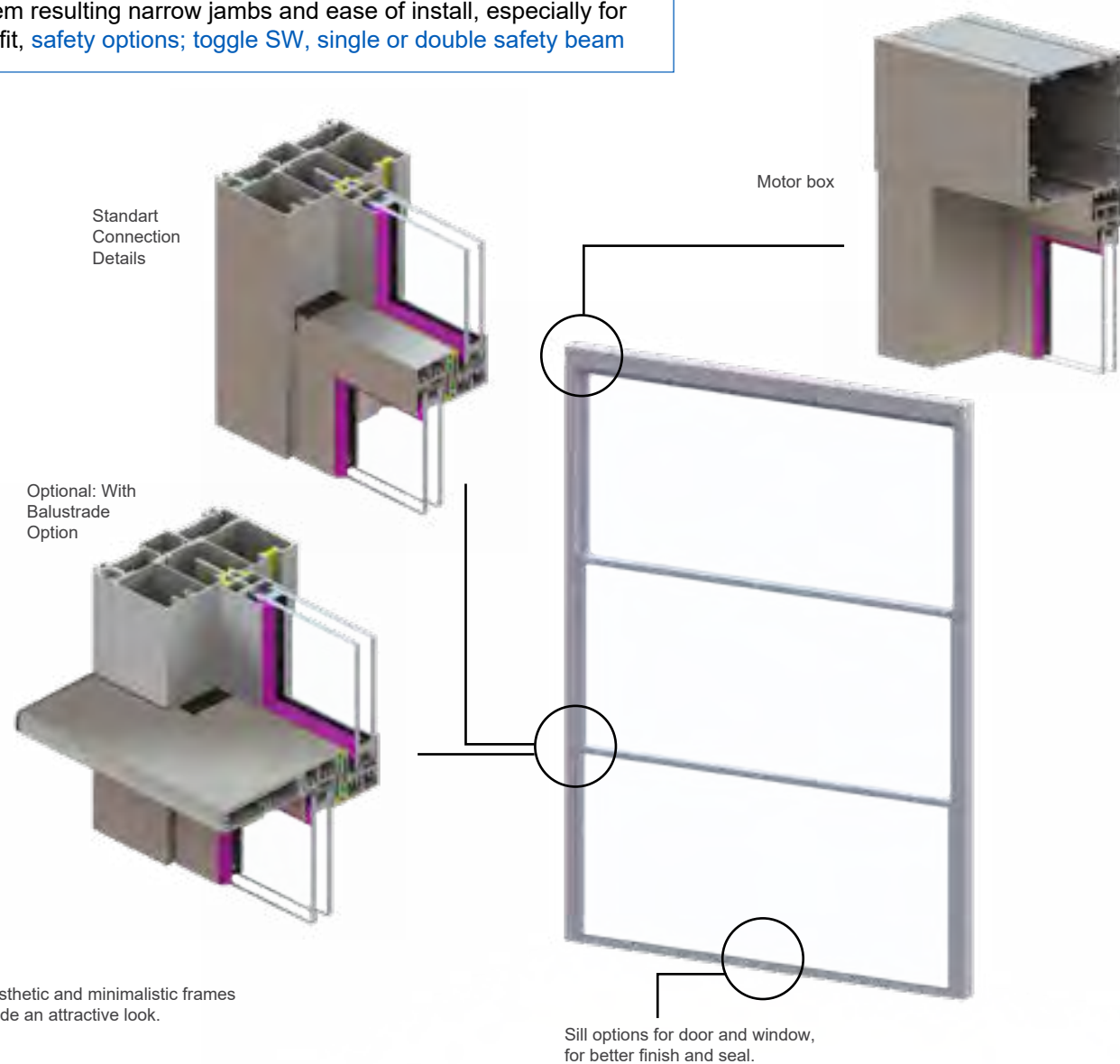
Designed with non-thermally broken structural system, motor box and window frame to provide insulation up to .42 U-Value

Frames will accept single or IG of up to .78"

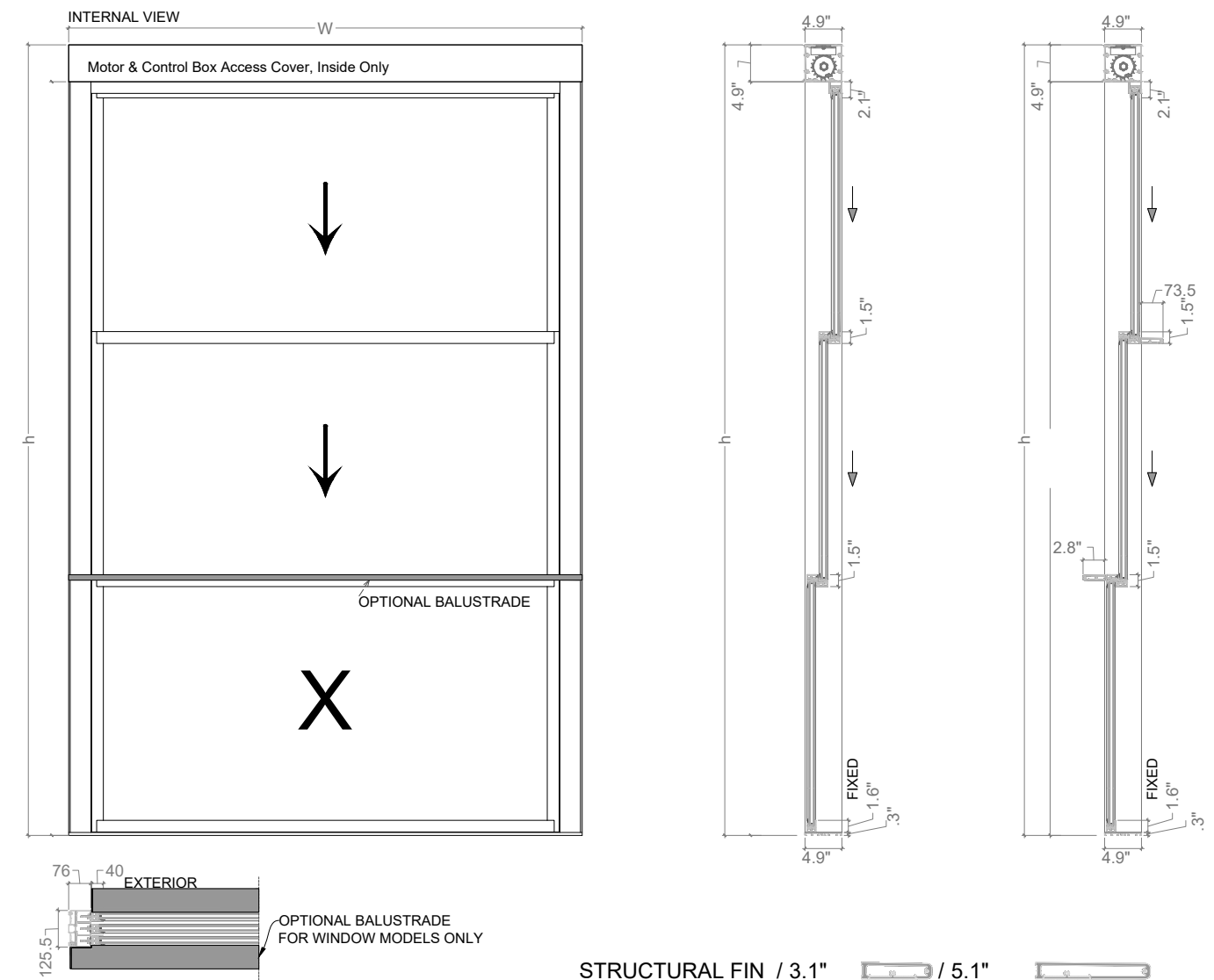
Extensive control options inclusive of connection to building automation

## Design & Safety

"Hidden Sash Guide" for aesthetics and "Finger pinch" for safety, Minimalistic Sash and Jamb profiles, No counterweight system resulting narrow jams and ease of install, especially for retrofit, safety options; toggle SW, single or double safety beam



## PANORA MAX-GUL W3



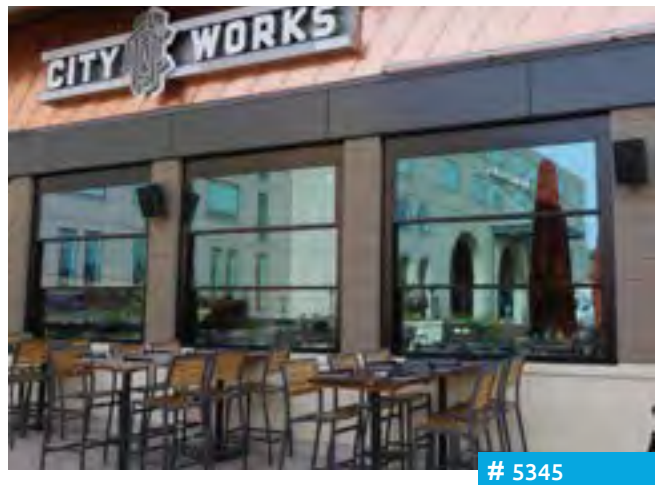
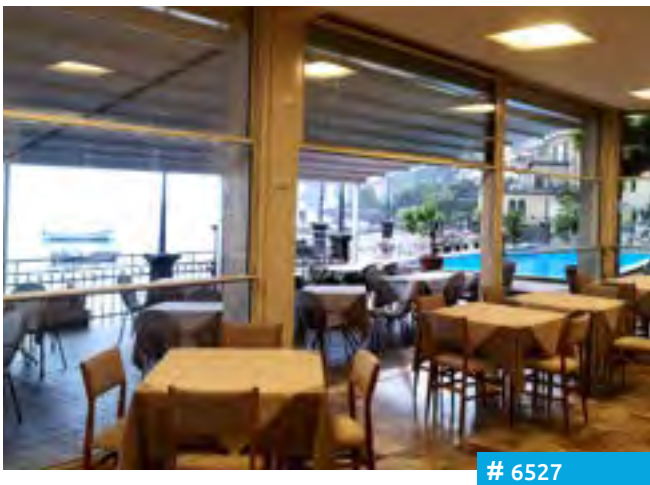
Total operating glazed frame weight should not exceed over 308 lbs

GUL systems are available with or without glazing. Frames can be locally glazed by installers.

\*Maximum operable dimensions are dependent on the operable glazed frame weight.

\*\*Maximum thermal insulation is possible with high performance glass. Ask your project consultant for information.





Libart designs and fabricates operable architectural systems for discerning architects and professional clients from around the world. Libart's aluminum and glass retractable structures are innovative, functional and aesthetically attractive. They are used in restaurants, cafes, hotels, commercial and residential and industrial facilities. Our commitment to research, design, engineering and manufacturing is based on providing our customers value added retractable structures that offer flexible living and working environments, for any type of weather.

Libart has been serving the architectural industry with operable solutions for over 25+ years, with manufacturing centers located in 3 continents and dealers in more than 40+ countries.

## Go From A Busy Season To A Busy Year

To learn more about our systems and projects from around the world please visit us at, [www.stoett.com](http://www.stoett.com)

Contact Us at [info@stoett.com](mailto:info@stoett.com)

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