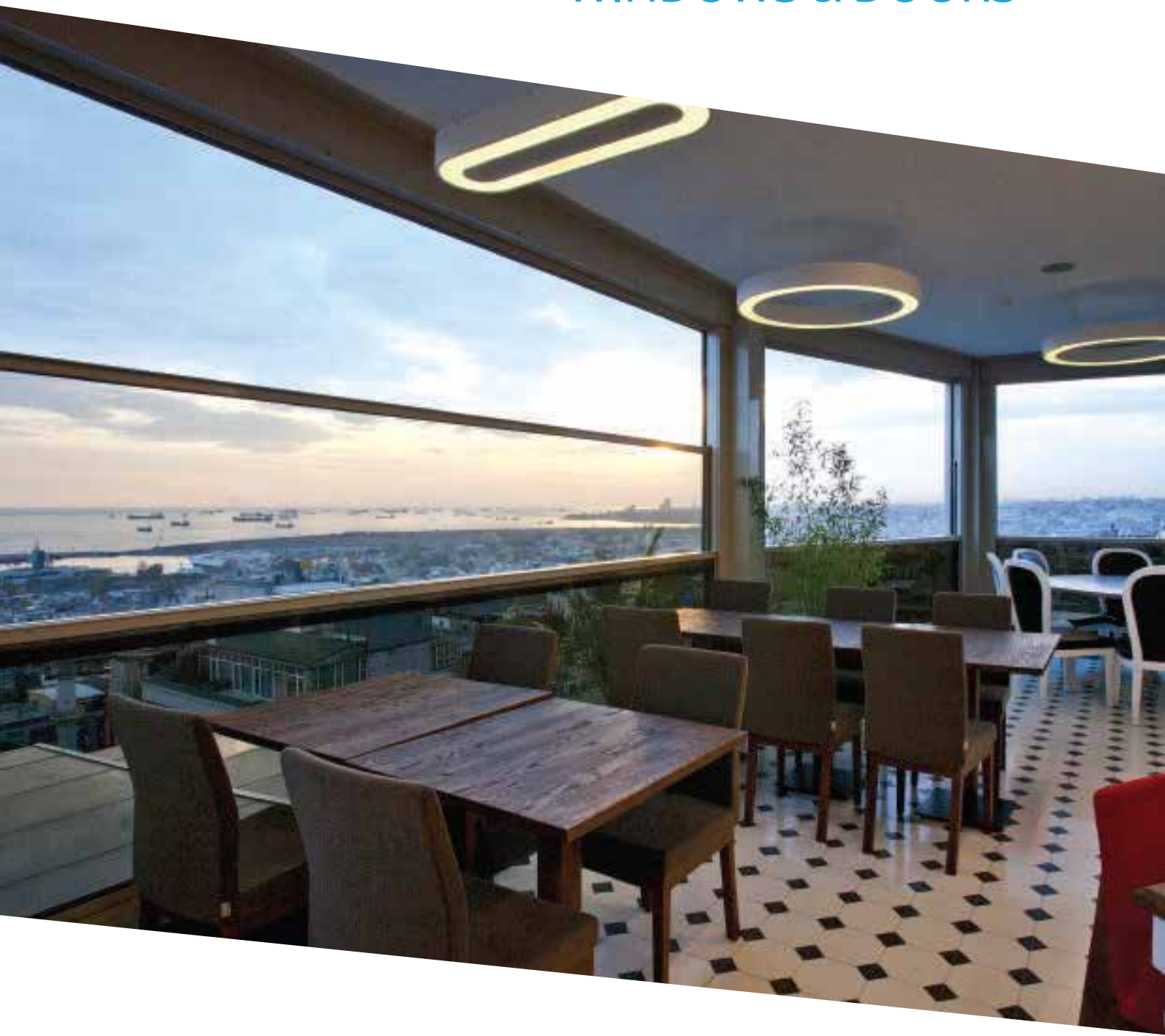


PANORAMA
FOR A BETTER VIEW

VERTICAL RETRACTING WINDOWS & DOORS



MOTION IN ARCHITECTURE

ARKI
LIBART



PANORA
Vertical Retracting
Door Systems



PANORA
Vertical Retracting
Window Systems

A new solution for Windows & Doors “For a better view!”

We are proud to announce the revolution
in Windows & Doors.

Arki Libart's Panora Vertical Retracting
Windows and Doors presents a new
paradigm.

Panora's large span, vertical retracting
Windows & Doors provide you with an
unobstructed view within the structural
supports in your buildings.



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

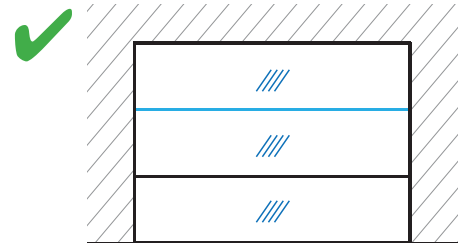
WHEN OPEN

FREE OF FRAMES

Better View With Panora Vertical Retracting Door & Window

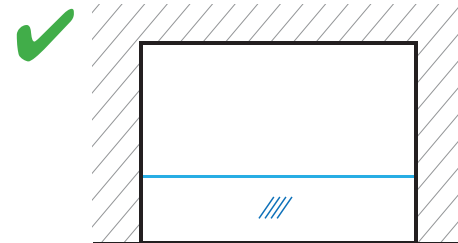
PANORA

Vertical Retracting Door & Window



PANORA

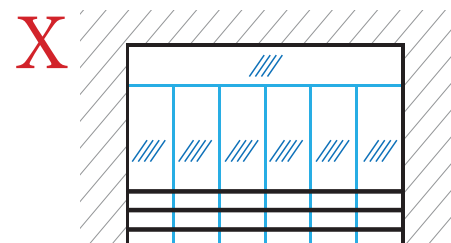
Vertical Retracting Door & Window



Limited View With Sliding And Folding Systems

TRADITIONAL

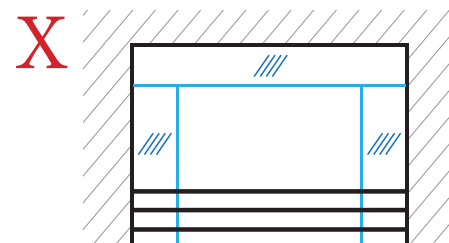
Approaches



profiles in view when closed

TRADITIONAL

Approaches



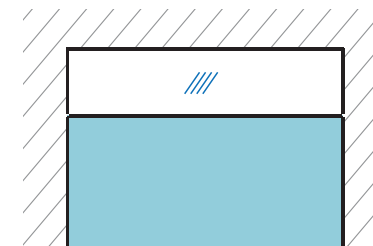
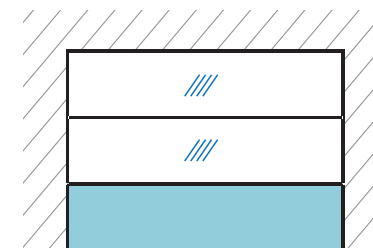
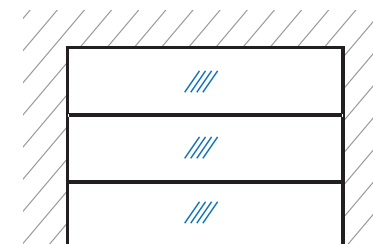
profiles in view when opened

BETTER VENTILATION

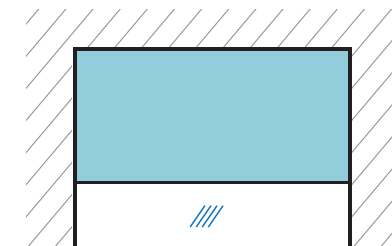
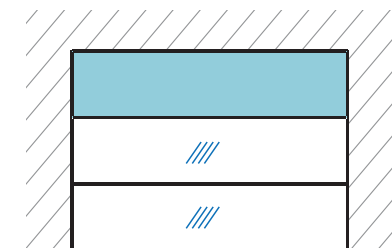
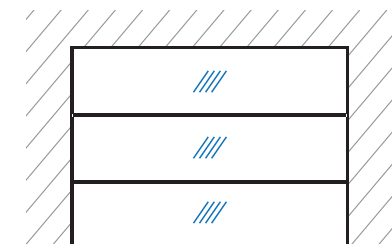
CLIMATE CONTROL

Better Ventilation Control With Panora Systems

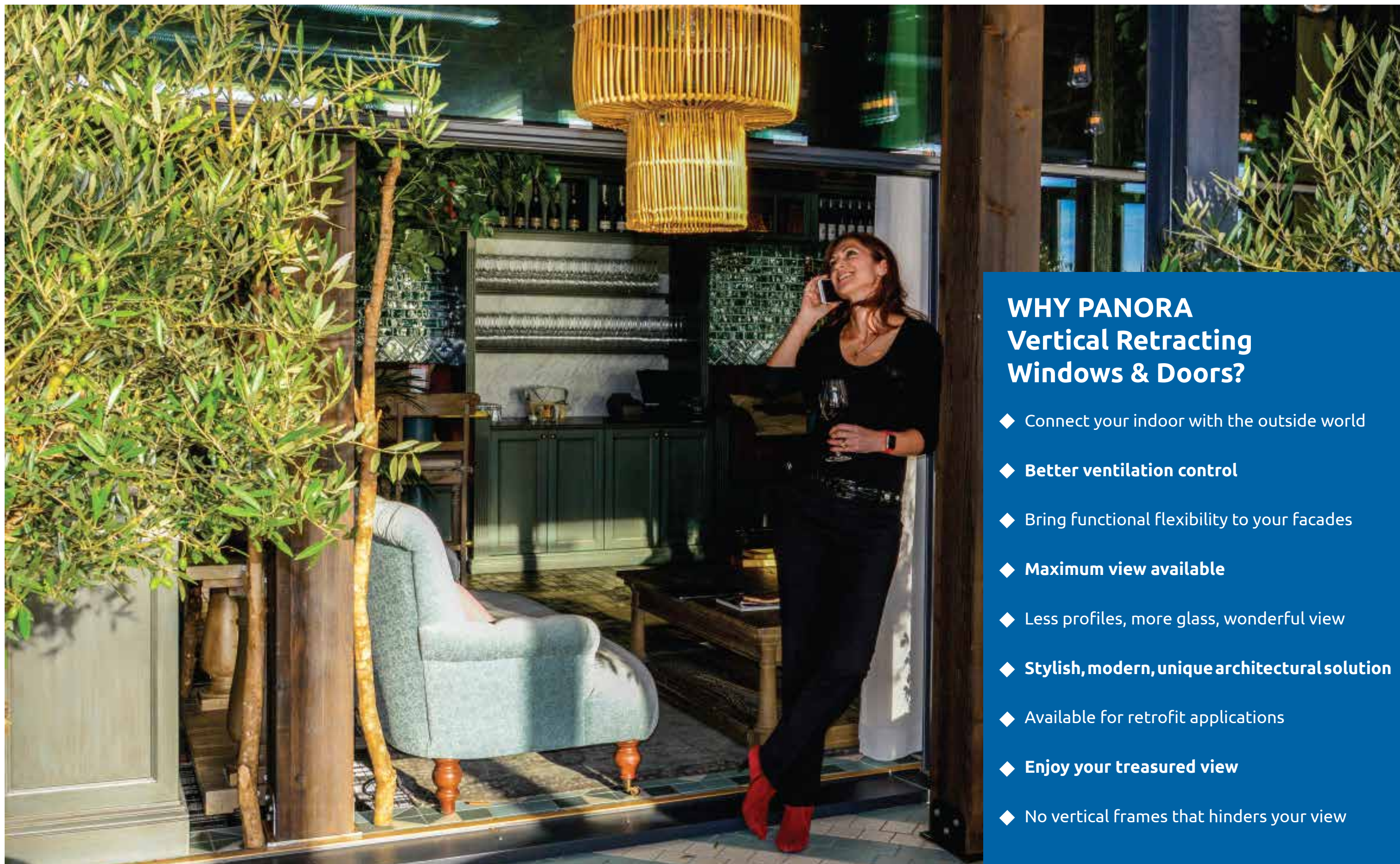
Door Option



Window Option



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



WHY PANORA Vertical Retracting Windows & Doors?

- ◆ Connect your indoor with the outside world
- ◆ **Better ventilation control**
- ◆ Bring functional flexibility to your facades
- ◆ **Maximum view available**
- ◆ Less profiles, more glass, wonderful view
- ◆ **Stylish, modern, unique architectural solution**
- ◆ Available for retrofit applications
- ◆ **Enjoy your treasured view**
- ◆ No vertical frames that hinders your view



CAROLINA ALE HOUSE

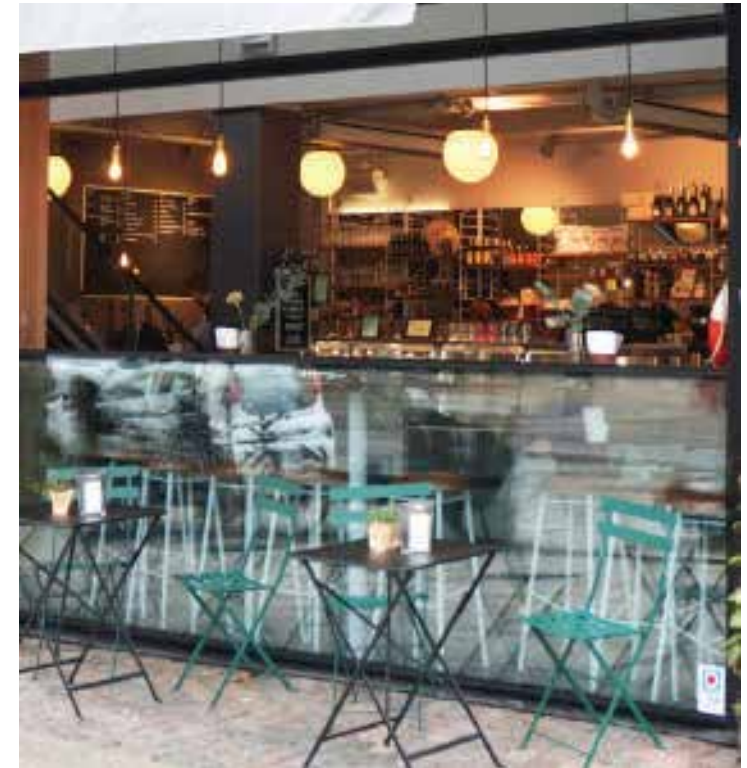
Project Code : # 4833
Location : USA
Size : 3.50 x 3.6 m
Operation Mode : W3 (Window)

Ale House is a successful restaurant chain in the USA. They wanted to create an outdoor atmosphere for their clients, while protecting their customers from changing weather conditions. Panora Vertical Retracting Windows create such an atmosphere, natural light, controllable airflow, unobstructed view. A natural microclimate solution. More window, less obstructions, higher customer satisfaction.

LONDON WALL PLACE

Project Code : # 2080
Location : United Kingdom
Size : 3 x 4 m (3 units)
Operation Mode : D4 (Door)

This Café required wide open counter space to blend the indoor space with the outside seating. Arki Libart's Panora Vertical Retracting Windows flood the venue with natural light whilst maximizing clear opening without any loss interior or exterior space. Panora's minimalistic design complement area's blend of modern and ancient architecture. Open or closed provide a relaxing view of the landscaping at this oasis of calm in busy urban environment.



COOPERS HAWK LIBERTY

Project Code : # 2401
Location : USA
Size : 4 x 4 m (2 units)
Operation Mode : D4 (Door)

If you run a sports bar, you need the flexibility of adjusting your spaces when you can. 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 out outdoors.

VALLGATAN COFFEE SHOP

Project Code : # 4126
Location : Sweden
Size : 4 x 2.8 m
Operation Mode : W2 (Window)

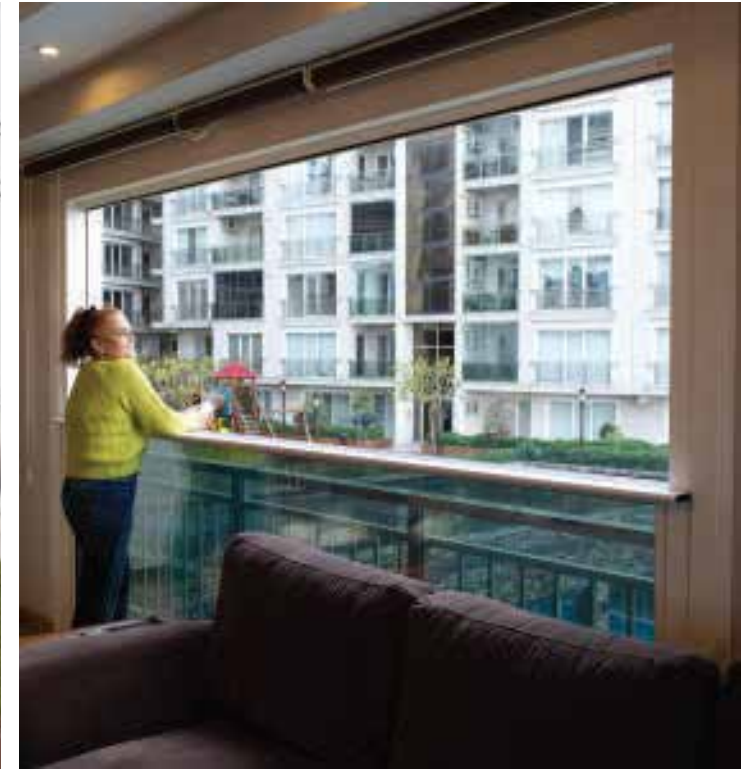
This special solution filled the architects and owners design dreams. Panora Window System provided wide open counter space as part of the interior counter extension when open, and full glass wall when closed. In this project a three frame Panora Window is used, with the top small glass fixed, middle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



BRASSERIE LIPP

Project Code : # 3487
Location : Sweden
Size : 3 x 3 m
Operation Mode : D3 (Door)

Classic sidewalk café, restaurant application. Client wanted to integrate their indoor spaces to their outdoor seating in good weather, while retaining maximum table space, ease of customer or server traffic. Arki Libart's Panora Vertical Retracting Door's systems has provided this, large glass windows that retract up to provide obstruction free space between inside and outside, excellent alternative to classic sliding or folding doors & windows.



PANORA FAÇADE RESIDENCE

Project Code : # 3285
Location : Turkey
Size : 3.5 x 2.3 m - 4.1 x 2.3 m
Operation Mode : W2 (Window)

Comfort of your living spaces are greatly governed by your sense of spaciousness, this is where Panora windows play a big role, providing unobstructed view that blurs the inside with the outside. This project is an excellent example of how Panora vertical retracting Maxi Façade windows can transform a living room into an exclusive resting and refreshing space, with sea and countryside views from your favorite chair.

ONE SIZE DOES NOT SUITS 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 5.0m width to 6.0m in height, [New or retrofit installation with ease](#), Designed with thermally broken structural system, motor box and window, [Frames will accept IG of up to 32mm](#)

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 5.0m width to 6.0m in height, [New or retrofit installation with ease](#), Designed with thermally broken structural system, motor box and window frames, [Frames will accept IG of up to 38mm](#)

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 3.6m width to 3.6m in height, [New or retrofit installation with ease](#), Non-thermally broken profile system, [Frames will accept Single or IG of up to 20mm](#)

VALUE FOR YOUR INVESTMENT

3 unique systems to suit specific needs, climates, sizes, or budget
Flexibility of configuration, safety features and aesthetics
Greater window and glass wall seating leads to greater revenue potential

Function
Open / close, button, remote or central automation systems, No need additional stacking space is required for stacking when opened , Uninterrupted openings of up to 6m (18'), no vertical profiles

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

Inovation
Alternative to sliding, swinging or folding windows & doors, More glass, less frame (up to 6m 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. 12.7mm chain drive system (1/2")		Proprietary gearbox. 12.7mm chain drive system (1/2")		Direct drive, 12.7mm chain drive system (1/2")
	Opening & Closing speed	About 2.8 m/min (9.1" min)	About 1.9 m/min, (6.4' min)	About 2.1 m/min (6.7' min)	About 1.5 m/min, (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: 162 x 183mm (6.4" x 7.2")	w x h: 162 x 210mm (6.4" x 8.3")	w x h: 125 x 183mm (4.9" x 7.2")	w x h: 125 x 210mm (4.9" x 8.3")	w x h: 125mm x 125mm (4.9" x 4.9")
Structural	Design Options	1 sash (100% opening), 2 sach (%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 32 mm (1 9/32")		IG up to 38mm (1 1/2")		IG up to 20mm or Single Glazing 6, 8, 55.4mm
	Structural Fin	Optional: Single or Dual Structural Fin, 80mm or 130mm (3 5/32" or 5 1/8")		Optional: Single or Dual Structural Fin, 80mm or 130mm (3 5/32" or 5 1/8")		Optional: Single or Dual Structural Fin, 80mm or 130mm (3 5/32" or 5 1/8")
	Balustrade Bar	Optional, Windows Only		Optional, Windows Only		Optional, Windows Only
	Operable Glazed Sash Weight	Up to 210 kg (460 lbs.)	Up to 600 kg (1,300 lbs.)	Up to 210 kg (460 lbs.)	Up to 600 kg (1,300 lbs.)	Up to 190kg (410 lbs.), for 220VAC
	Maximum Height	6.0 m (236")		6.0 m (236")		3.6m (142")
	Maximum Width	5.0 m (196")		4.5 m (177")		3.6m (142")
	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)
Standards	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 _w = 1.60 (W/m²K) [with Ug=1.1(W/m²K) glass]		U _w = 1.56 (W/m²K) [with Ug=1.1(W/m²K) glass]		U _w = 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 660 kg

Sizes ranging from 5.0m width to 6.0m in height

Structural fin support system for strong wind support

Balustrade option for Window models

Minimalistic frames 162mm deep x 68mm Jambs, and 40mm frames

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

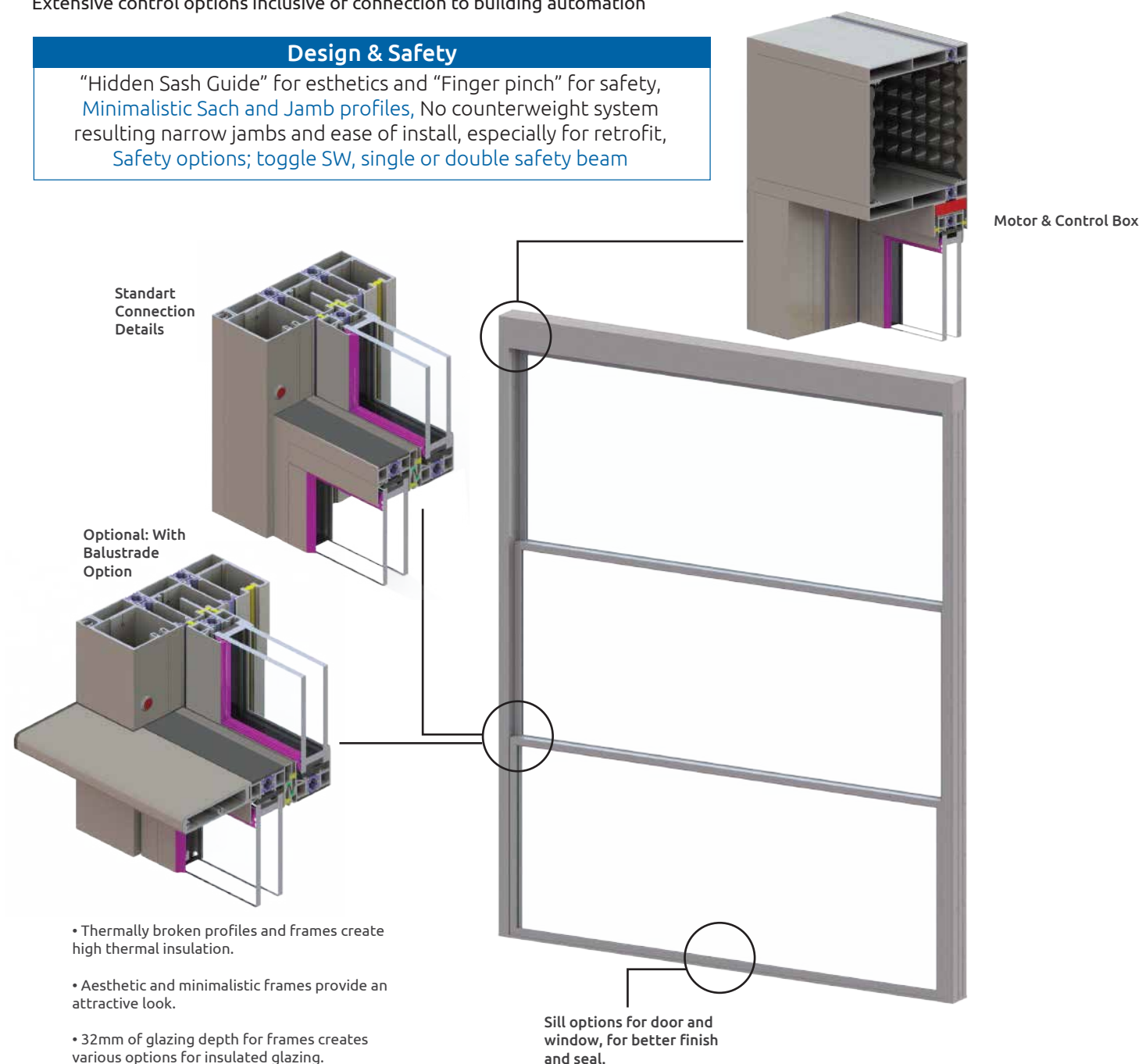
Designed with thermally broken structural system, motor box and window frames to provide excellent insulation, up to 1.6Uw

Frames will accept IG of up to 32mm

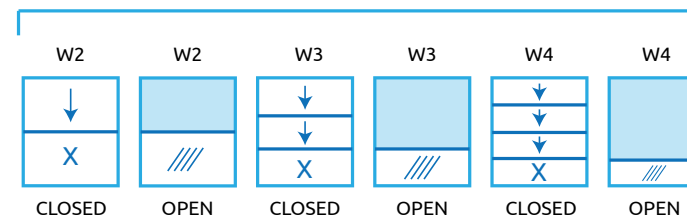
Extensive control options inclusive of connection to building automation

Design & Safety

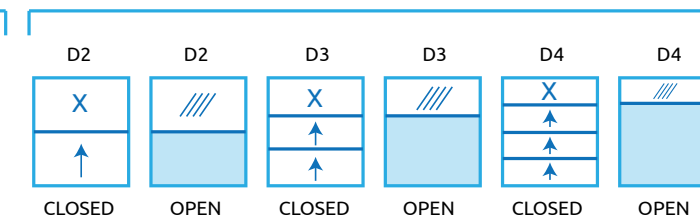
"Hidden Sash Guide" for esthetics and "Finger pinch" for safety, Minimalistic Sash and Jamb profiles, No counterweight system resulting narrow jambs and ease of install, especially for retrofit, Safety options; toggle SW, single or double safety beam



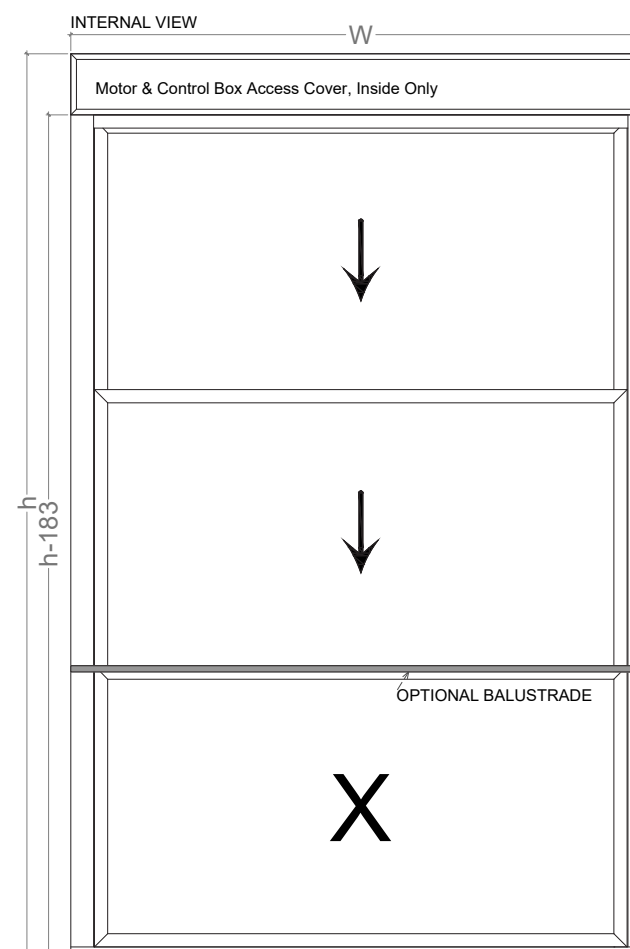
WINDOWS MODELS



DOORS MODELS



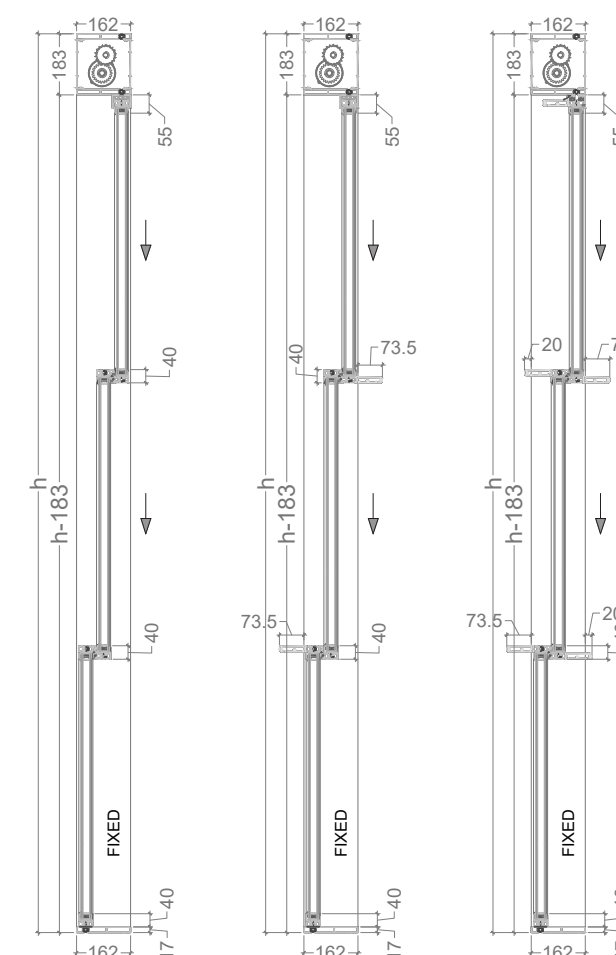
PANORA MAXI-GUM W3



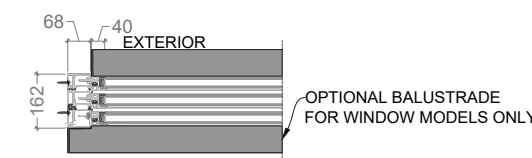
Standard

With Single Support Set

With Double Support Set



STRUCTURAL FIN / 80 mm 130 mm



Total operating glazed frame weight should not exceed over 300kg.

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 730 kg

Sizes ranging from 5.0m width to 6.0m in height

Structural fin support system for strong wind support

Balustrade option for Window models

Minimalistic frames 125mm deep x 68mm Jambs, and 40mm 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 1.6Uw

Frames will accept IG of up to 38mm

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

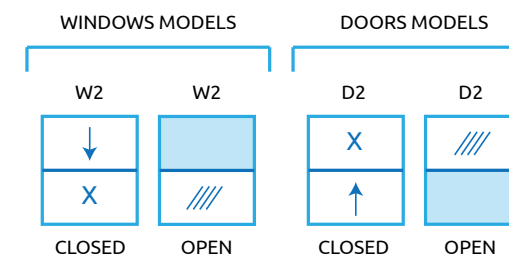
Standart
Connection
Details

Optional:
With Balustrade
Option

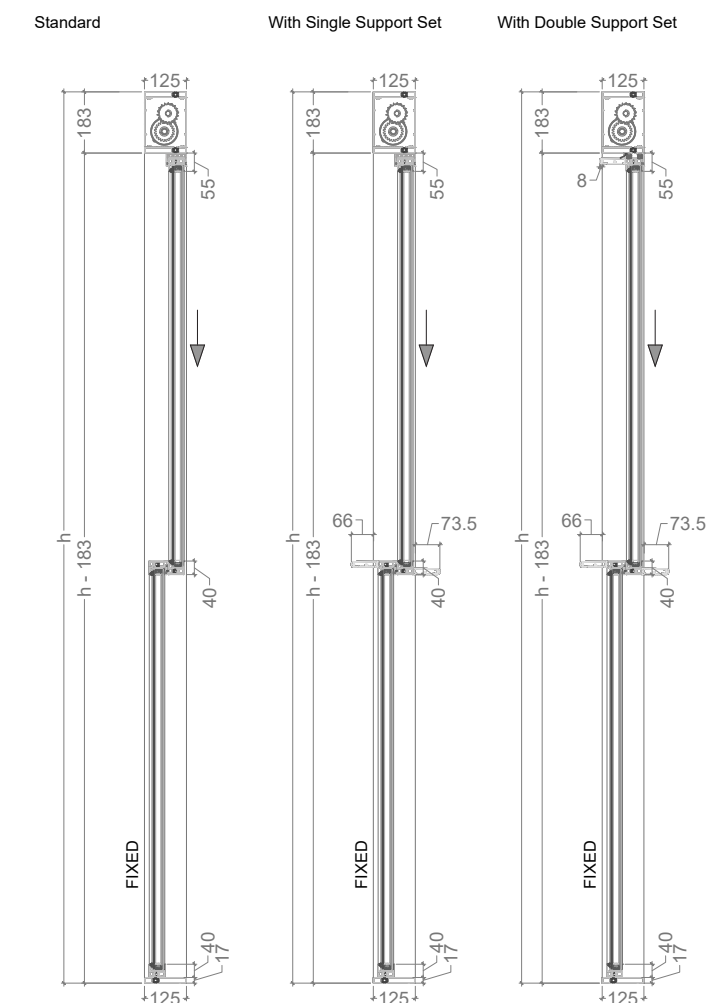
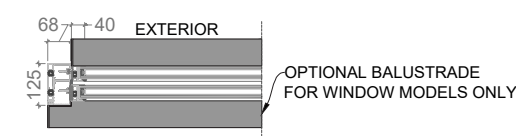
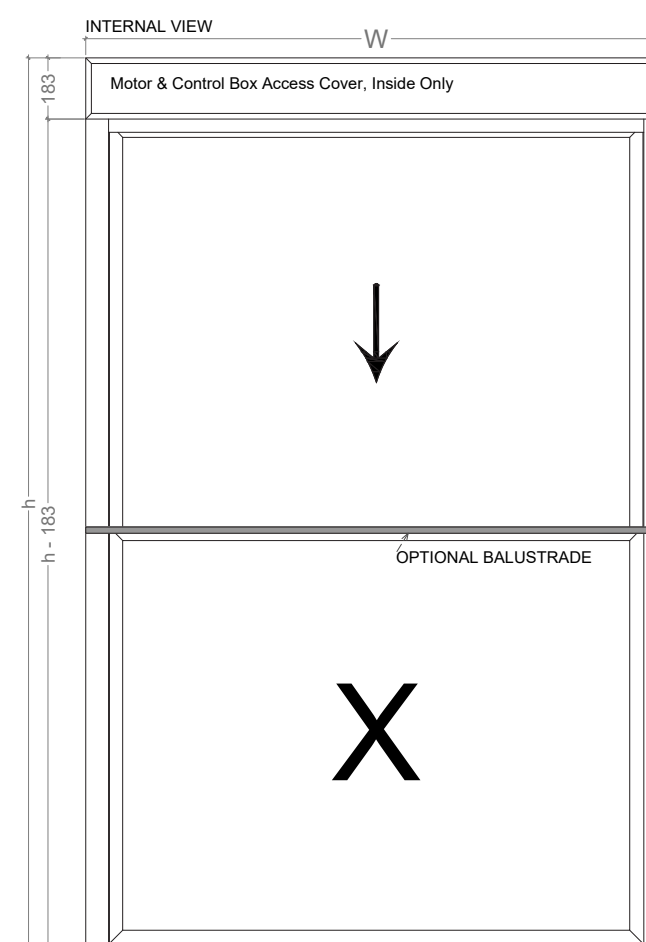
Drive box
crose action

Sill options for door and window,
for better finish and seal.

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



PANORA FACADE-GUF W2



STRUCTURAL FIN / 80 mm 130 mm



GUF MOTOR BOX



GUF+ MOTOR BOX

Total operating glazed frame weight should not exceed over 280kg.

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 Countertop Applications

Operable glazed frame weight up to 190 kg, sizes ranging from 3.6m width to 3.6m in height

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

Minimalistic frames 125mm deep x 76mm Jamb, and 40mm frames

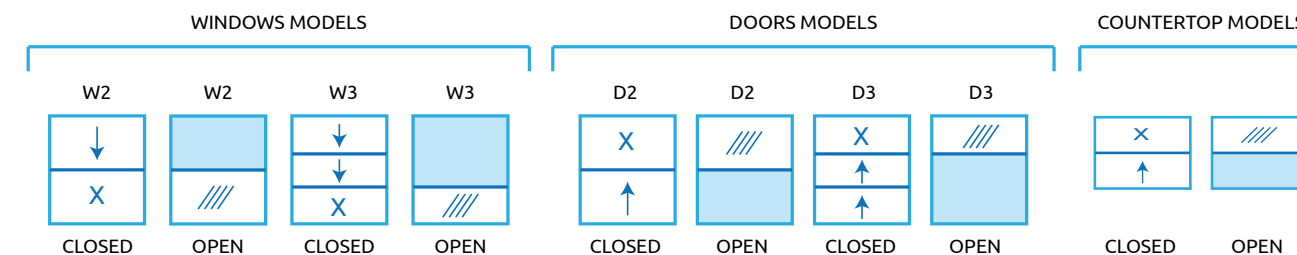
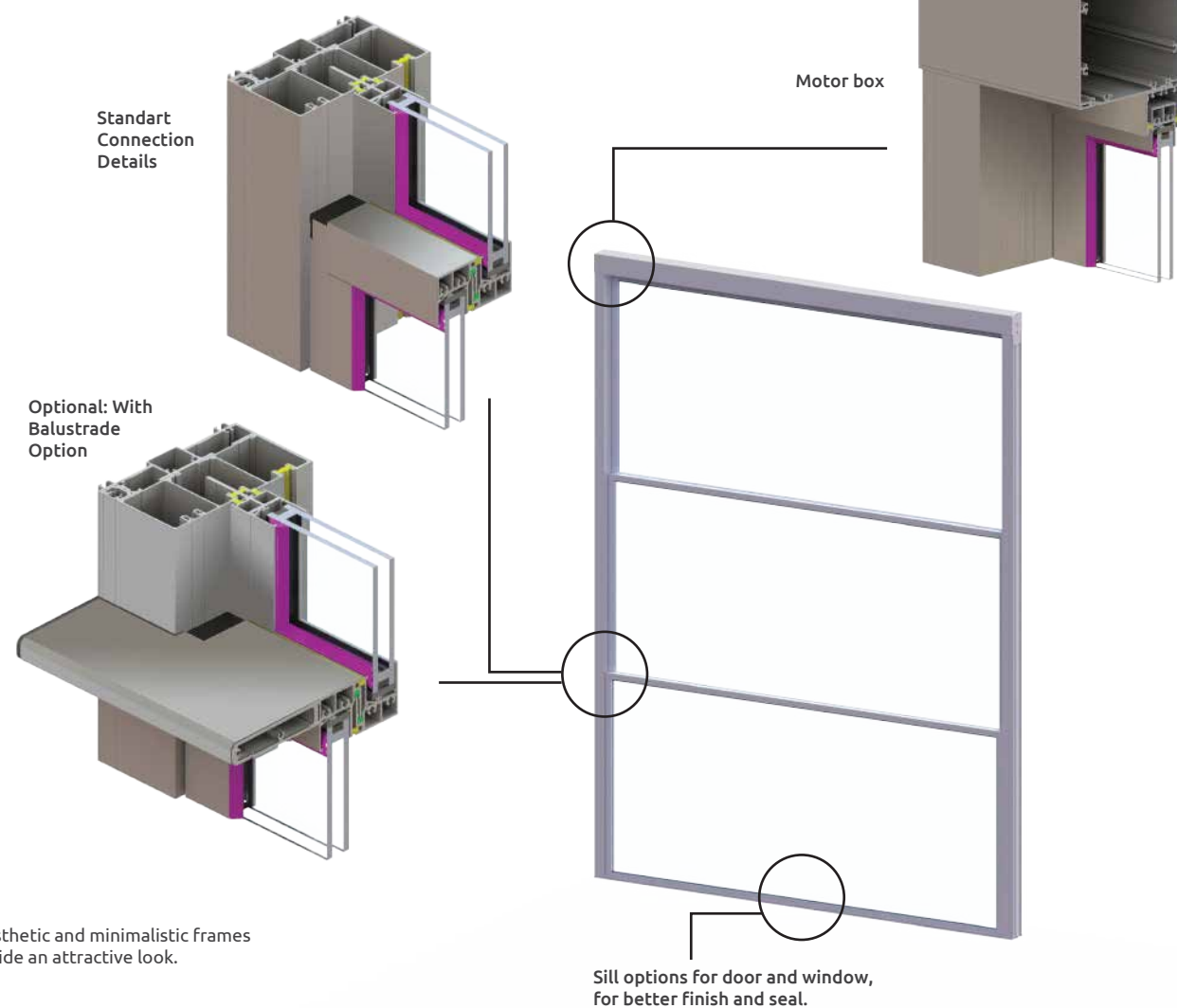
New or retrofit installation with ease, no need for special gutter or hidden counterweights

Designed with non-thermally broken profile system, Frames will accept single or IG of up to 20mm

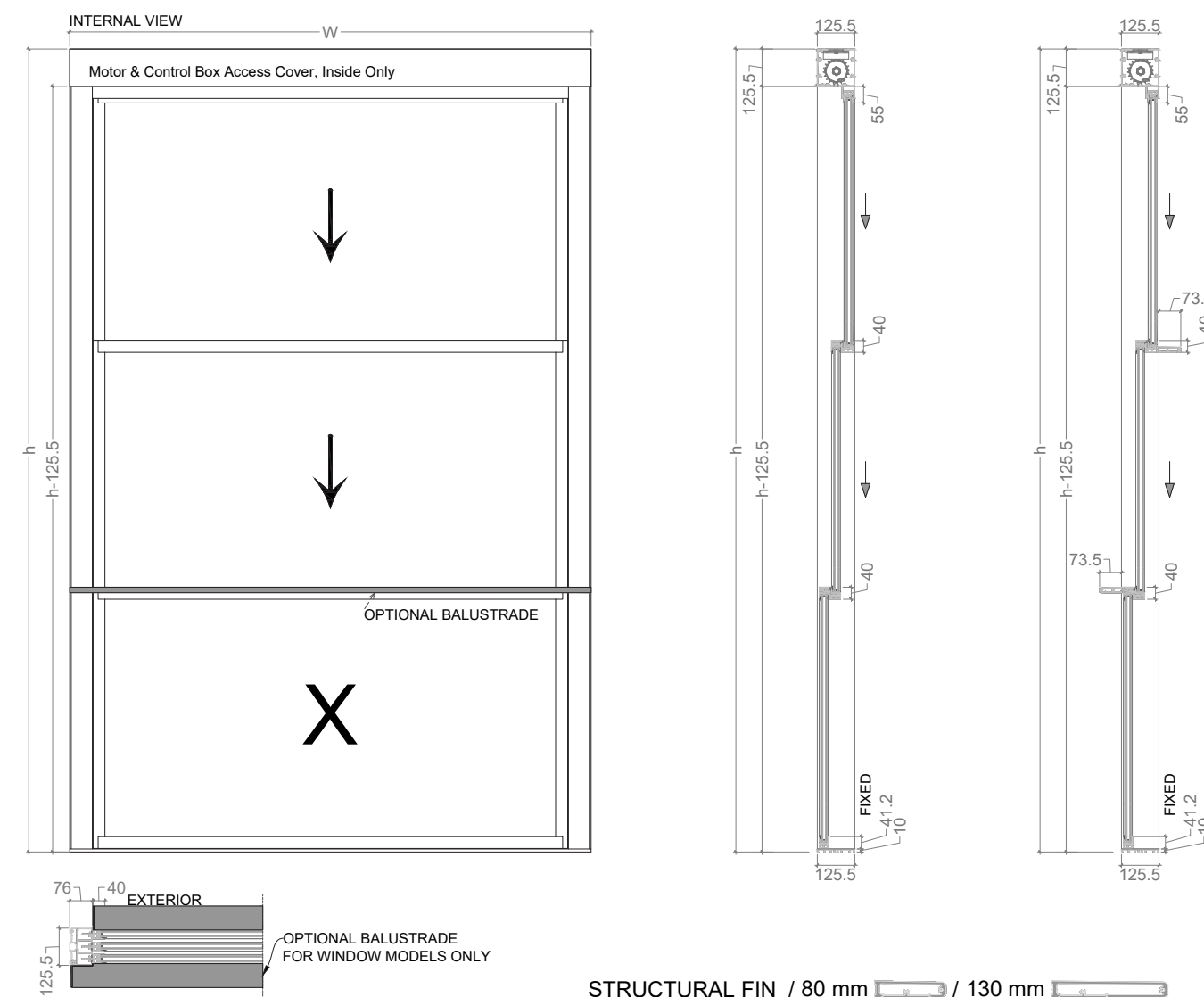
Extensive control options inclusive of connection to building automation

Design & Safety

"Hidden Sash Guide" for esthetics and "Finger pinch" for safety, Minimalistic Sash and Jamb profiles, No counterweight system resulting narrow 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 140kg.

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.

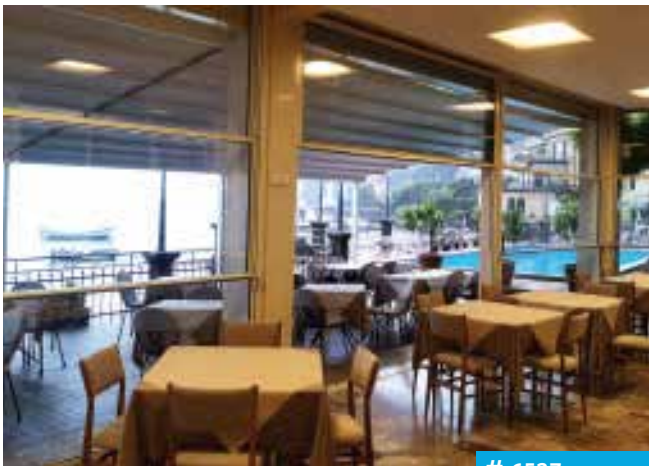
**Maximum thermal insulation is possible with high performance glass. Ask your project consultant for information.



6623



4850



6527



5345

Arki Libart designs and fabricates operable architectural systems for discerning architects and professional clients from around the world. ArkiLibart'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. Arki 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.

MOTION IN ARCHITECTURE

To learn more about our systems and projects from around the world please visit us at, www.arkilibart.com and www.panorasystems.com

www.arkilibart.com
info@arkilibart.com



arkilibart



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