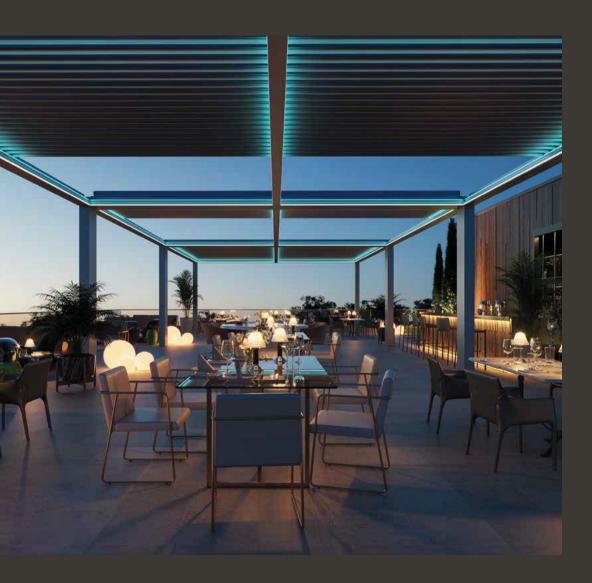
FINNKAIHDIN.



EXXEN

Perfect fusion of functionality, redefinition of outdoor living areas

Exxen is a high-end scissors bioclimatic aluminum pergola system that performs the most desired function in outdoor living spaces with its fully retractable feature.

It is designed to enhance your exteriors considerably to enable absolute protection and more relaxing time for any kind of outdoor living areas. The system is uniquely flexible and modular custom built to be adapted various types of large application areas such as restaurants, terraces, balconies either private or commercial with its distinguished design.

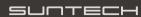
System enables you to make shadow control thanks to a simple opening and closing system with automated pivoting louvres that provides natural air flow effect and exceptional quality of outdoor life in the open air.

Thanks to its retraction feature Exxen allows you to see the open sky clearly and helps you benefit from daylight at the maximum level. It is extremely suitable for using your outdoor living space in all seasons and contributes to preserving your stylish line by showing an aesthetic harmony with other complementary products.

Individual modules can be custom made in your specified finish up to 7m wide and 8m projection with flexible integration solution between existing structures with an operable architecture. Also several modules can be linked to each other and even larger patio roof can be created by coupling multible modules.

Along with the aluminum materials that make up the majority of the system, Exxen comes up with two different maximum size options. The system can be extended up to 8 meters projection and 4,5 meters of width dimensions, that is a practicable option especially for lengthwise applications. When it comes up with a maximum width of 7 meters, projection will be up to 6 meters and that's an efficient solution with covering of large commercial areas.

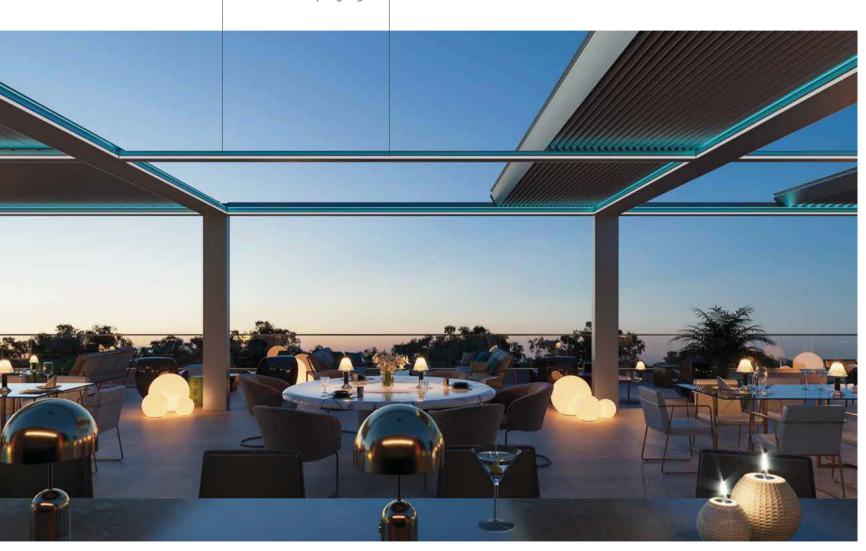
System is visually enriched with its elegant Hidden Led Stripe and RGB lighting options that can be ajdusted according to current mood of user. Also optional insulation foam is available that enables heat and sound insulation.



■ Led Stripe Dimmer Lighting



RGB Led-Hidden Stripe Lighting



Led Stripe Dimmer Lighting illuminates all around the system and creates a warm atmosphere. Dimmable Soft Led Stripe lighting on sides within the structure provides intensity of day light or cool white options.

RGB Led-Hidden Stripe Lighting provides ultimate luxury by creating distinctive atmosphere in outdoor living areas with infinitive colour options.



Operations

Fully Closed





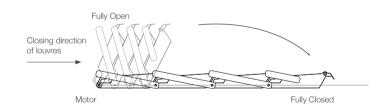


Retracted

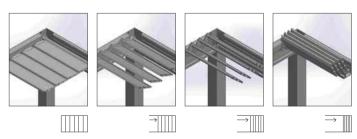




Louvre Closing Direction



Tilting Directions







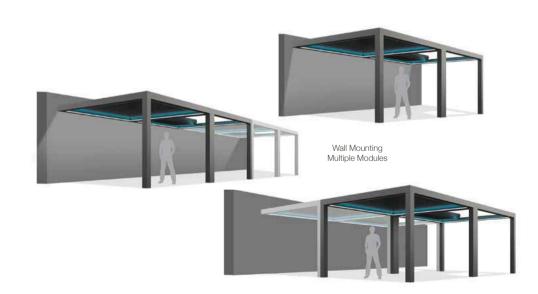
Flexible installation methods are available with wall mounting and free standing installations and they can even be served as a roof assembled to existing frameworks.















Blocked assembly for customized modules with a wide range of flexible combinations.

One Section



One Section

(w) Width 1200 mm < 4500 mm (p) Projection 1290 mm < 8040 mm

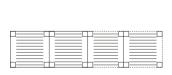
(h) Height 3000 mm



One Section (w) Width 2400 mm < 9000 mm

(p) Projection 2580 mm < 16080 mm

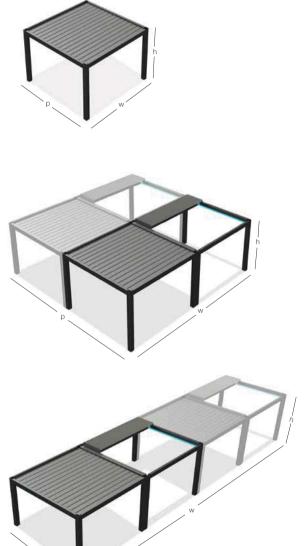
(h) Height 3000 mm

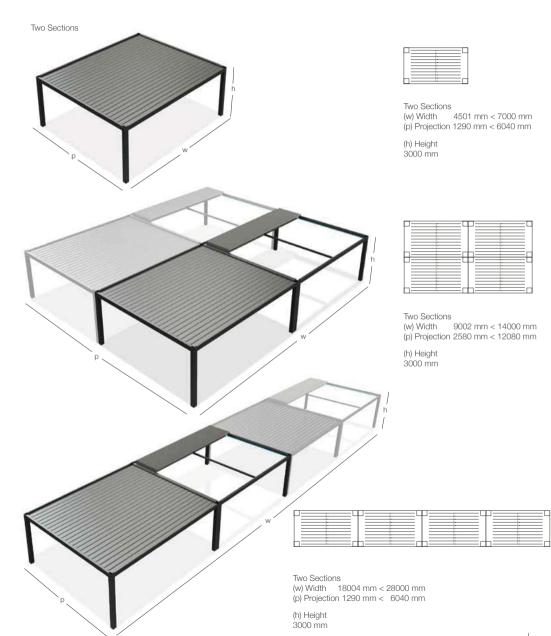


One Section

(w) Width 4800 mm < 18000 mm (p) Projection 1290 mm < 8040 mm

(h) Height 3000 mm

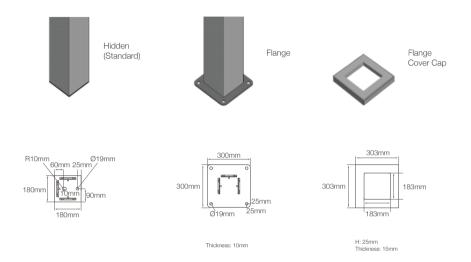




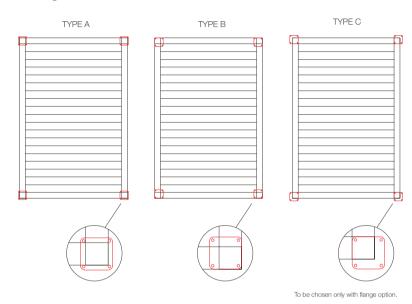




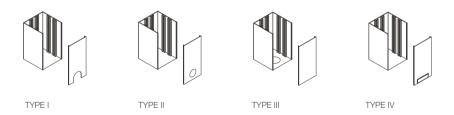
Column Base Options



Flange Positions



Drainage Types

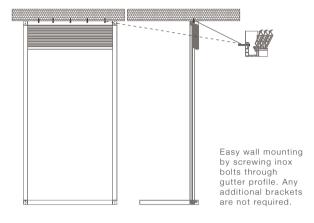




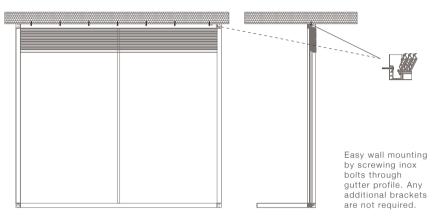


Hang Bracket Types & Mounting

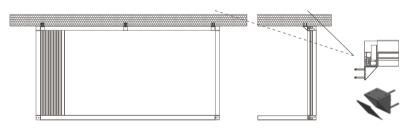
One Section

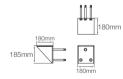


Two Sections

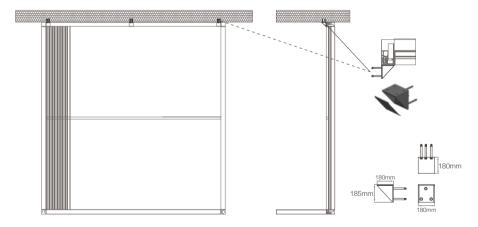


Vertical Mounting Outer Wall Bracket (Inox) With Optional Cover Cap





Vertical Mounting Outer Wall Bracket (Inox) With Optional Cover Cap





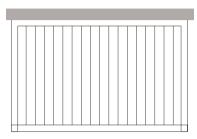


Wall Installation Louvre Positions

Parallel To Wall

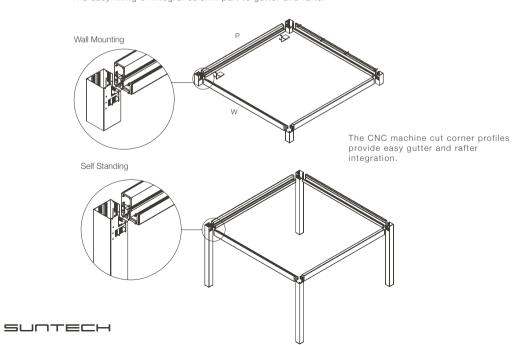






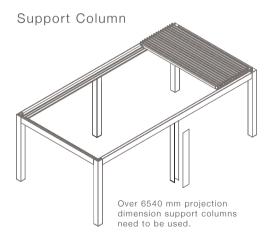
Column and Gutter/Rafter Integration

The easy fixing of integral column part to gutter and rafter



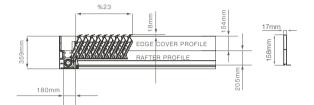
Support Rail







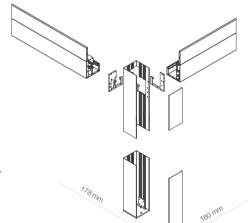
Side Elevation



Column Connection

Thanks to ease of column base assembly each column can be installed practically through a series of simple operations that guarantee installation quality and speed to reduce number of staff required.

The front column cap can be pulled out simply and inner column cavity conceals the wiring cables of heater, speaker and automation to provide clean appearance.



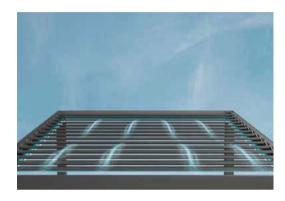
Louvre Stormguard Seal

Sealing solution stops water dripping over louvre gutter channel by providing a soft cushioning barrier between point of louvre junction.











Slightly opening of louvres creates natural air flow for application areas.



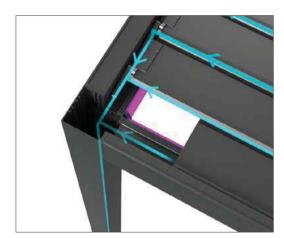


Protecting from sun exposure while ensuring air ventilation under the system .





Ensuring waterproof coverage when louvres are in fully closed position.



000

Each channel on louvres drain the water through four sided gutters connected with columns.



Functional seal entegrated on louvre channels provides maximum protection from water dripping.





Closures



Sapphire Glass System

Sapphire can be adapted to Exxen system and offers a maximum clear span that provides unobstructed view & minimalistic style. The system is operated by just the touch of button.



Swind

Swind can be combined with also Exxen system and offers adequate wind breaking with the option of total transparency by incorporating the function of balustrade. Thanks to led stripe dimmer lighting integrated side frame the fixed panel assigns distinctive appeal. The system is modular and completely flexible as there are no limits in the horizontal direction that can be used to surround spaces of all types and sizes.

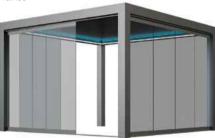


Violet

The adaptability of Violet balustrade glass with Exxen creates a stunning visual transparency without lacking of obstruction to lines of sight. The stylish lighting solution that is integrated underneath the glass highlights attractive aspect of the design by amplifying overall aesthetic of outdoors. Thanks to flexible and multiple modular implementations, system can be used to cover comprehensive areas without limitation in the horizantal direction.



Framee



Slidia

Sliding Glass System

The combination of the sliding glass system with Exxen ensures efficacious protection from wind and rain. The aluminium frames which cover each glass panel provide maximum safety standards and practicality with elegance details.



Vertex Zip Syster

The minimalist, slimlane, contemporary design of the zip system provides comfortable shade and protects aganist the UV rays. The system includes motorised aluminium structure, entirely powder-coated with stainless steel bolts and screws.





Dimension Ranges

One Section Width dimension: Any value between 1800mm and 4500mm Projection dimension: Adjustable according to louvre quantity

							V	VIDTH		
				180	O					4500
	6		1790							
	7		2040							
	8		2290							
	9		2540							1
	10		2790							+
	11		3040							-
	12		3290							4
	13		3540							
	14		3790							
	15	Z 429	4040							
ZZ ZZ	16		4290							1
NR. OF LOUVRES	17		4540							
	18	PRO	Á 4790							
	19		5040							
	20		5290							
	21		5540							
	22		5790							
	23	62 65 67 70 72 75	6040							
	24		6290							
	25		6540							
	26		6790							
	27		7040							
	28		7290							
	29		7540							
	30		7790							
	31		8040							

Two Sections Width dimension: Any value between 4501mm and 7000mm Projection dimension: Adjustable according to louvre quantity

WIDTH

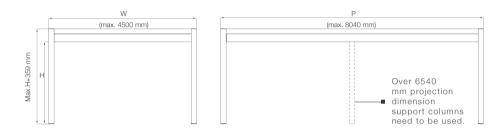


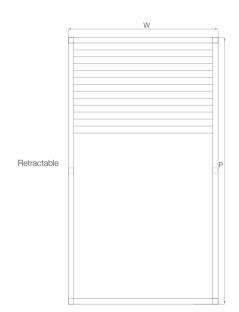




Single Module One Section

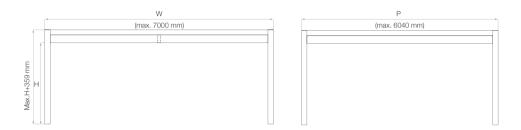
W: 1200 mm < 4500 mm P: 1290 mm < 8040 mm

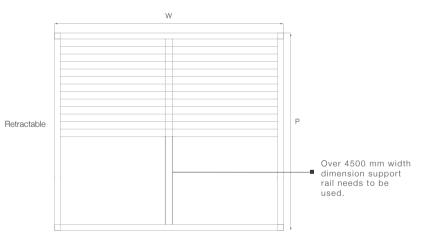




Single Module Two Sections

W: 4501 mm < 7000 mm P: 1290 mm < 6040 mm



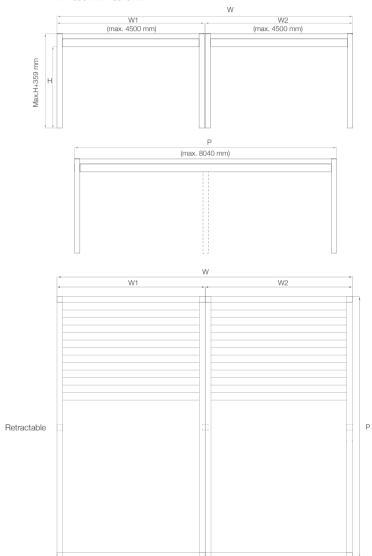






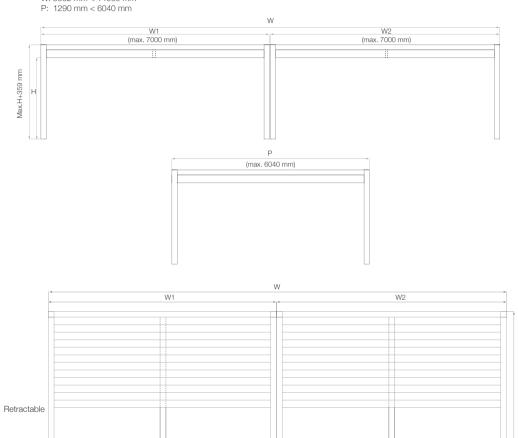
Multiple Modules Type 1 One Section

W: 2400 mm < 9000 mm P: 1290 mm < 8040 mm



Multiple Modules Type 1 Two Sections

W: 9002 mm < 14000 mm

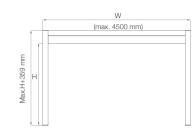


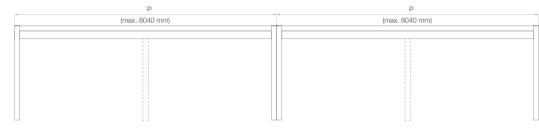


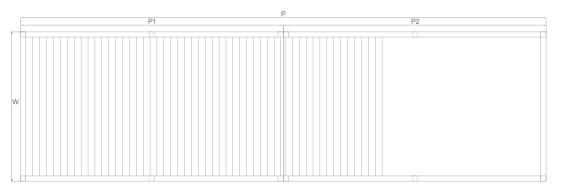


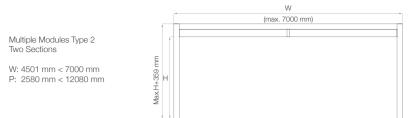
Multiple Modules Type 2 One Section

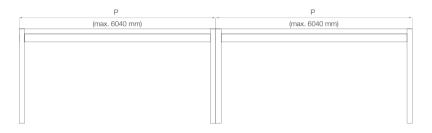
W: 1200 mm < 4500 mm P: 2580 mm < 16080 mm

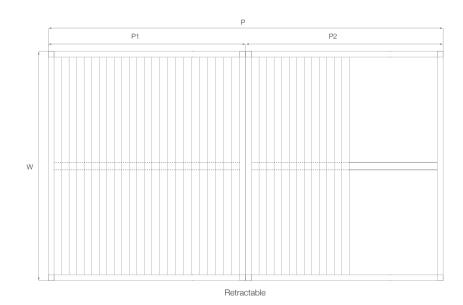












SUNTECH



Technical Details



optional

Max. width for single module	4500 mm (One Section) / 7000 mm (Two Sections)
Max. projection single module	8040 mm (One Section) / 6040 mm (Two Sections)
Rafter profile dimension	180x200 mm
Gutter profile dimension	180x200 mm
Post dimension	180x180 mm
Louvre dimension	292 mm
Louvre quantity in max. size	31 pcs
Louvre can be tilted up to	70°
Louvres parking area	23%
Automation	included
Control unit	included
Led Stripe Dimmer lighting	optional
RGB Led - Hidden Stripe lighting	optional
Insulation foam	optional
Edge Cover	optional
Flange	optional
Rain Sensor	optional
Wind Sensor	optional
Sun Sensor	optional

Technical Specifications Exxen

Spacious Retractable Scissors Roof System

Description

Exxen is a bioclimatic covering solution that ensures comfort and relievement with its retraction and large span.

Dimensions

One module

One Section Two Sections

Column Height 3000 mm

- Blocked assembly for customized modules with a wide range of flexible combinations.

I Technical Characteristics

- Extruded aluminium frame, blades & gutters clean edges.
- Electrostatic powder-coated frame.
- High-quality aluminum extrusion profiles (Aluminium Alloy 6063-T6).
- Concealed screws to offer clean finish.
- High grade stainless steel connection components.
- High strength timing belt for balanced movement inside rafters.
- Large span with 7000mm dimension.
- Projection availability up to 8040mm dimension.
- Remote control for operation of mechanism and lighting.
- Double-walled aerofoil louvres with superior strength and durability.
- Adjustable louvres for any position.
- Extended open sky when roof retracted.
- Dimmer option to adjust lux intensity.
- Antibacterial polyurethane foam insulation which can be integrated into the louvre to provide sound and heat insulation.
- Air and water insulation between joining axis of multiple applications is provided by U profile.



Wind&Sun Sensor



- Applicability of guillotine, sliding / sliding frame / folding glass and zip systems.
- Fully waterproof coverage when louvres are in fully closed position.
- Functional seal integration on louvre channel to prevent water leaking and provide extra insulation.
- Seal integration along structure for water insulation and temperature resistance.
- The water is flowed down to the main gutters by special drainage channels along the louvres and drained through columns.
- Optional edge cover profile which complete smooth design.
- Hidden direct drive double shaft motorbox with Somfy® motor operates retracting motion.
- Production in compliance with CE, ISO 9001, ISO 1400 and NVA standarts.
- In addition to standart RAL colors, Exclusive and Texture range aluminium.

II Profile Section Dimensions

 Rafter
 : 180 mm x 200 mm x 3,5 mm

 Gutter
 : 180 mm x 200 mm x 3,5 mm

 Column
 : 180 mm x 180 mm x 3,5 mm

 Louvre
 : 292 mm x 40 mm x 2.5 mm

III Installation Methods

- Individual modules can be customised according to specified finish up to 4500mm width and 8040mm projection (one section) or finish up to 7000mm width and 6040mm projection (two sections) with flexible installation methods such as integration into existing frameworks, wall mounting and free standing for larger outdoor areas.
- System can be assembled as single or multiple modules.

IV Columns

- Dimensions: 180 x 180 mm x 3,5 mm

- Simple column assembly.
- 3 different column base options: Hidden, Flange, Flange With Cover Cap.

V Weather Resistance

Wind Resistance

- Wind rating up to Beaufort number 10 (up to 102km/h).

Water Drainage

- The four sided gutter for completely ensured waterproofness.
- Water drainage with an intensity of 155 L/h/sgm that last up to 2 minutes maximum.
- Optional PVC pipe (Ø70) integration inside columns.
- Customised drain points flexibity.

VI Additional Equipments

- Heater, speaker or other automations can be integrated into the system.
- Rain and wind sensor can be adapted.

Rain sensor closes the blades automatically when it rains.

The blades should be closed when wind speed reaches to 102 km/hour to save under warranty terms.

VII LED Lighting

Integrated RGB-Led Hidden Stripe and Led Stripe Dimmer Lighting on sides within the structure.

- Led Stripe Dimmer Lighting

Cool White, 60 LEDs/m I +5100-6500K I 1130 lumens/m

Day Light, 120 LEDs/m I +2800-3500K I 1094 lumens/m

- RGB Led-Hidden Stripe Lighting

96 LEDs/m

VIII Sensors

Rain, wind, sun and wind & sun sensor can be adapted for an optimum level of comfort. These smart sensors are designed to respond fully automatic based on weather conditions in a specific situation. It functions as a protection against unexpectable weather conditions. Sensors will activate an automated system that close/retract the roof and protect the furniture &underneath of covered area even if you are not able to control the system.

Wind sensor

Wind sensor monitors the gust of wind then retract your outdoor product to protect it against unexpected strong winds and offers constant protection.

The wind speed and lux value required to do this is set directly at the sensor. If the wind picks up significantly wind sensor will retract the roof depending on a pre-set wind speed. Thanks to ease of installation and minimal cabling it can be setup simply.

Sun sensor

Sun sensor provides automatic control of your outdoor coverings based on sunlight levels. It is used to respond to the intensity of the sun by controlling your pergola system accordingly.

It will adjust your roof position based on the sunlight intensity allowing you to control the sun light entering your house.

The sensor will close the roof when sunlight exceeds the set threshold automatically to create a comfortable outdoor living area by increasing energy efficiency and protecting furnishings from UV damage.

The sun sensor will activate and close the roof according to amount of light decreases.



Rain sensor

Rain sensor will automatically detect the rain and close your roof to prevent raindrops falling through open roof systems even if you are not able to control the system.

If rain is detected the pergola will be closed and the remote control will be needed to open it back.

Wind & Sun Sensor

Wind & Sun Sensor can be used together. Once the sun is above the sensitivity level the roof will close automatically to offer maximum convenience. If the wind picks up significantly wind sensor will retract the roof depending on a pre-set wind speed.

IX Closures

Systems can be completely enclosed with Sapphire automatic vertical glass system, Swind windbreaker system, Violet, Framee, Slidia or motorised Vertex zip for further protection from the elements.

Sapphire

Sapphire is an automatic vertical guillotine glass system enriched with patented worm shaft technology.

- Systems can incorporate framed tempered 8 mm and 10 mm single or 4mm+12mm+4mm / 5mm+10mm+5mm double insulated glazing.
- Optional 2 or 3 panels configurations are available up to 4 meters width and 3 meters height or 3 meters width and 3,5 meters height.
- Electrostatic powder-coated frame.
- Operation is motorised.
- Upwards or downwards parking position options.
- Fixed panels can be used as balustrades.
- The position of movable panels can be adjusted according to desired height.
- Thanks to strengthened counterweight movement mechanism motor provides balanced&silent up/down operation.
- Fully hidden motor drive.
- Switch, remote or smart home control availability.
- Fine frames with thermal and sound insulated rubber seals.
- Wide open view with up to 4 meters width vertical glass panels.

Swind

Swind is an automatic vertical up-down glass panel.

- Electrostatic powder-coated frame.
- Extruded aluminium fix panel frame.
- Concealed screws to offer clean finish.
- Horizontal counterweight for smooth motion.

- High strength belt mechanism for balanced movement.
- 10mm fixed and 8mm up-down automatic moveable tempered glass panels.
- Frameless moveable glass panel for unobstructed view.
- Led stripe dimmer lighting integrated side frame / invisible electrical cables.
- Remote control for operation of mechanism and lighting.
- Fast opening-closing cycle.
- Fully hidden compact direct drive motor system.
- Ease of installation with single or multiple modules.
- Portability with optional wheel integration.
- Availability of usage as balustrade in closed position.
- Transparent panels in standards besides Smoked, Green, Blue and Bronze color options.

Violet

Violet glass balustrade system.

- Concealed screws to offer clean finish.
- Glass fixed pane is 8+1.52 pvb+8mm.
- Led stripe dimmer lighting integrated integrated underneath the glass / invisible electrical cables.
- Remote control for operation of lighting.
- Ease of installation with single or multiple modules.
- Availability of usage as Hand Rail (Optional).
- Compact & Easy Assembly.
- Transparent panels in standards besides Smoked, Green, Blue and Bronze color options.

Framee

Framee, sliding glass system with fine-framed double glazed panels.

- Double insulated glass (6+12+6mm).
- Transparent sliding glass panels in standard besides of Blue, Green, Smoked and Bronze glass color options.
- Electrostatic powder-coated frame.
- Handle with Click Lock on first panel and Handle with Hidden Lock on the last panel on internal side of sliding panels for security measures.
- Combination availability with Vertex Zip System for sun protection.
- Available with 2,3 or 4 rails up to maximum 8 panels combined with side or central openings.
- Natural, stainless steel and black anodyse color options.





Slidia

Slidia is a sliding glass system with individual parallel glass panels.

- Electrostatic powder-coated frame.
- Features slim aluminum glass profiles.
- Individual panels can be moved horizontally with single or double slide options.
- Bottom wheel carriages with double rollers ensure optimum and smooth running even with wide glass panels.
- Successive panels can be moved by the grap mechanism.
- Height adjustable wheel carriages up to 5mm.
- Sloped rail design for efficient drainage.
- Anodised bottom rail for easy and smooth movement.
- Rain and wind resistance by double sided transparent gaskets (standard), transparent gaskets with brush or aluminum slats with
- Brush and rubber cord for high frame insulation.
- Anti-slip rubber ensures safety passage and also offers ease of rail surface cleaning.
- Transparent sliding glass panels in standard besides of Blue, Green, Smoked and Bronze glass color options.
- Internal or external locking of the sliding panels by optional key lock for security measures.
- Flush Circle and Push & Pull Bar handle types and Allen&Key lock.
- Combination availability with Vertex Zip System for sun protection.
- Available with 3 or 5 rails up to maximum 10 panels, combined with side or central openings.

Vertex Zip System

Vertex is a motorised external blind system.

- It provides comfortable shade and protects aganist the UV rays.
- The system includes motorised aluminium structure.
- Each screen has a pair of identical side channels.
- Entirely powder-coated with stainless steel components.
- Maximum protection against solar radiation and penetration of heat while preserving the optimal level of natural light in the interior and contact with environment.
- The production technology of fabrics ensures a high resistance to external influences such as wind or changes in temperature and humidity.

Doors

Glass door

- Frameless hinged and frameless hydraulic glass doors are available.
- Single tempered glass (10mm).
- Available with single panel and double panels (each panel in maximum 1000mm).
- Flush Circle and Push & Pull Bar handle types and Allen&Key lock.
- Transparent panels in standards besides Smoked, Green, Blue and Bronze color options.
- Handle position height can be adjusted as desired (Standard height value is 110cm).
- Allen&Key lock for security.

Framed glass door

- Hinged and hydraulic framed glass doors are available.
- Electrostatic powder-coated frame.
- Available with double insulated single panel and double panels (each panel in maximum 1000mm).
- Double insulated glass (4+11+4mm).
- Transparent panels in standards besides Smoked, Green, Blue and Bronze color options.
- Handle position height can be adjusted as desired (Standard height value is 110cm).
- Internal or external locking of the sliding panels by optional key lock for security measures.
- Push & Pull Bar handle types.
- Pull Handle/ Lock.

Photocell Door

- Aluminum framed automatic glass door.
- Electronic lock.
- Possibility of manuel usage in emergency situations.
- Electrostatic powder-coated frame.
- Available in Laminated glass (4+4mm).
- Single panel and double panel options (each panel in maximum 1000mm).
- Fast opening-closing cycle and insulation materials for preserving heat balance between indoor and outdoor.
- Transparent panels in standards besides Smoked, Green, Blue and Bronze color options.
- One side button or double side button and double sided transition control types.



X Structure Color Options / Finishes

- The products are available with a wide range of colour options in standard or architectural textured coatings.
- In addition to standard RAL colors, Exclusive and Texture range aluminium colors can be offered.
- QualiMarine and Qualanod finishes are also available beside of Qualicoat finishes.

XI Warranty

	Exxen	Sapphire	Swind	Violet	Framee	Slidia	Vertex
Structure& Coating	5 years	5 years	5 years	5 years	5 years	5 years	5 years
Motor&Control Units	2 years	2 years	2 years	2 years	2 years	2 years	2 years
Lighting& Control Units	2 years	N/A	2 years	2 years	N/A	N/A	N/A

^{*}End user and installation defects are not covered.

Overview

Operations

Retractable



Lighting Options

Led Stripe Dimmer Lighting

Cool White











Optional

Insulation Foam



Edge Cover Profile

Without



Installation Types

Self Standing Single Module







Self Standing

Wall Mounting



Multiple Modules



Sensors

Rain Sensor



Wind Sensor









Sapphire

Swind

Violet Framee Slidia

Vertex Zip System







