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## ALLROOF

Innovative, modern and functional outdoor patio solution...

Allroof is an innovated bioclimatic pergola system with full-automatic tilting / retractable aluminum louvres and provides excellent protection from the sun, rain all the while providing beneficial ventilation.

Allroof bioclimatic pergola system is a modern choice that adds value to outdoor living areas, it brightens the look of home, restaurant, hotel or cafes with a touch of luxury. The system is designed to be adapted any kind of outdoor living areas and provides exceptional quality of life in the open air with a high degree of visual and thermal comfort.

The louvres in dimensions 180x40 mm are made from a special aluminum alloy which ensures exceptional strength. They form a flat and smooth ceiling and drain the rainwater to the discrete gutter in fully closed position.

The construction of the system with 160x160 mm post allows a high degree of resistance to strong winds and wide span between support columns. Possibility of installation as self standing makes this pergola a sustainable solution for terraces, patios, balconies, pool houses, hot tubs and outdoor kitchens. Several modules can be linked to each other and even larger patio roof can be created by coupling multiple modules lengthwise.

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 daylight (2800K) or cool white (5100K) options.

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

## Retractable & Tilting Version

Fully Closed



Retracted



Retracted & Tilted



## Tilting Version

Fully Closed



Tilted



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.



Self Standing  
Single Module



Wall Mounting  
Single Module



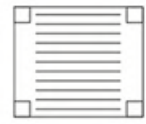
Self Standing  
Multiple Modules



Wall Mounting  
Multiple Modules



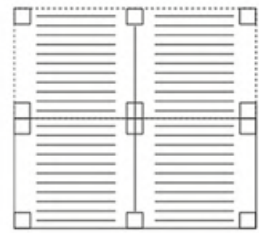
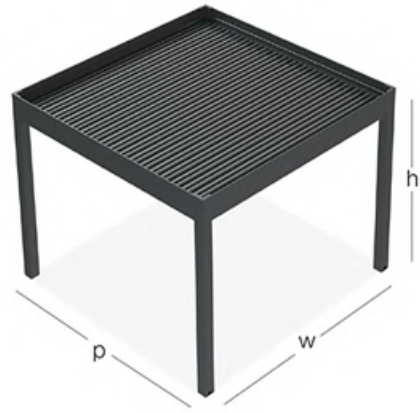
Blocked assembly for customised modules with a range of flexible combinations.



(w) Width  
180 cm < 400 cm

(p) Projection  
157 cm < 605 cm

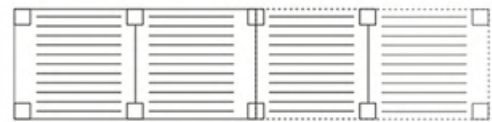
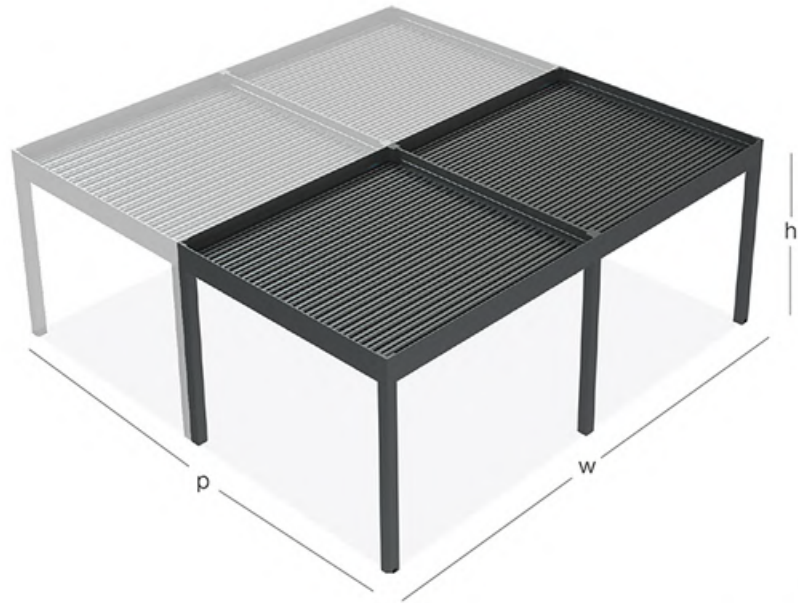
(h) Height  
300 cm



(w) Width  
360 cm < 800 cm

(p) Projection  
314 cm < 1210 cm

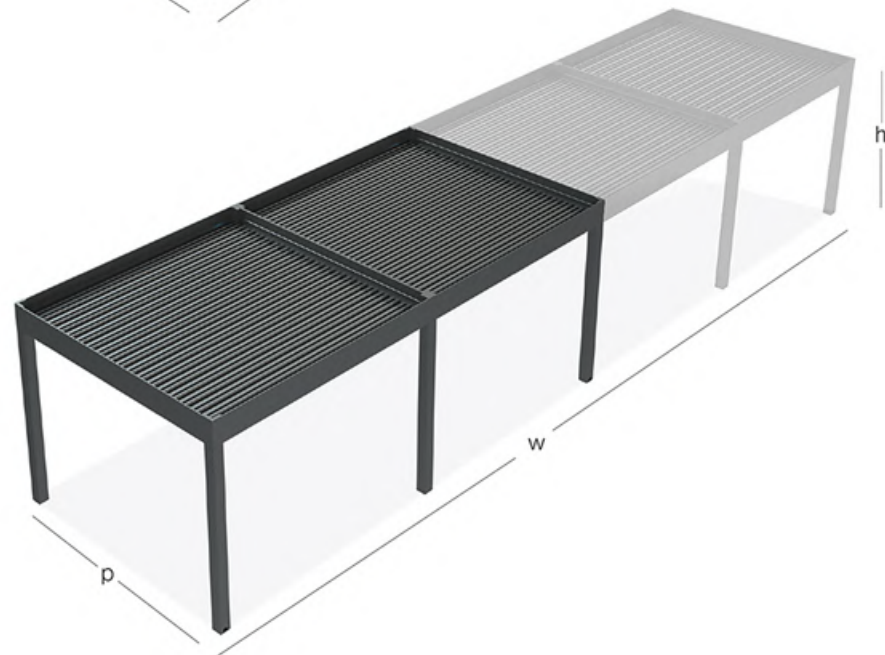
(h) Height  
300 cm



(w) Width  
720 cm < 1600 cm

(p) Projection  
157 cm < 605 cm

(h) Height  
300 cm

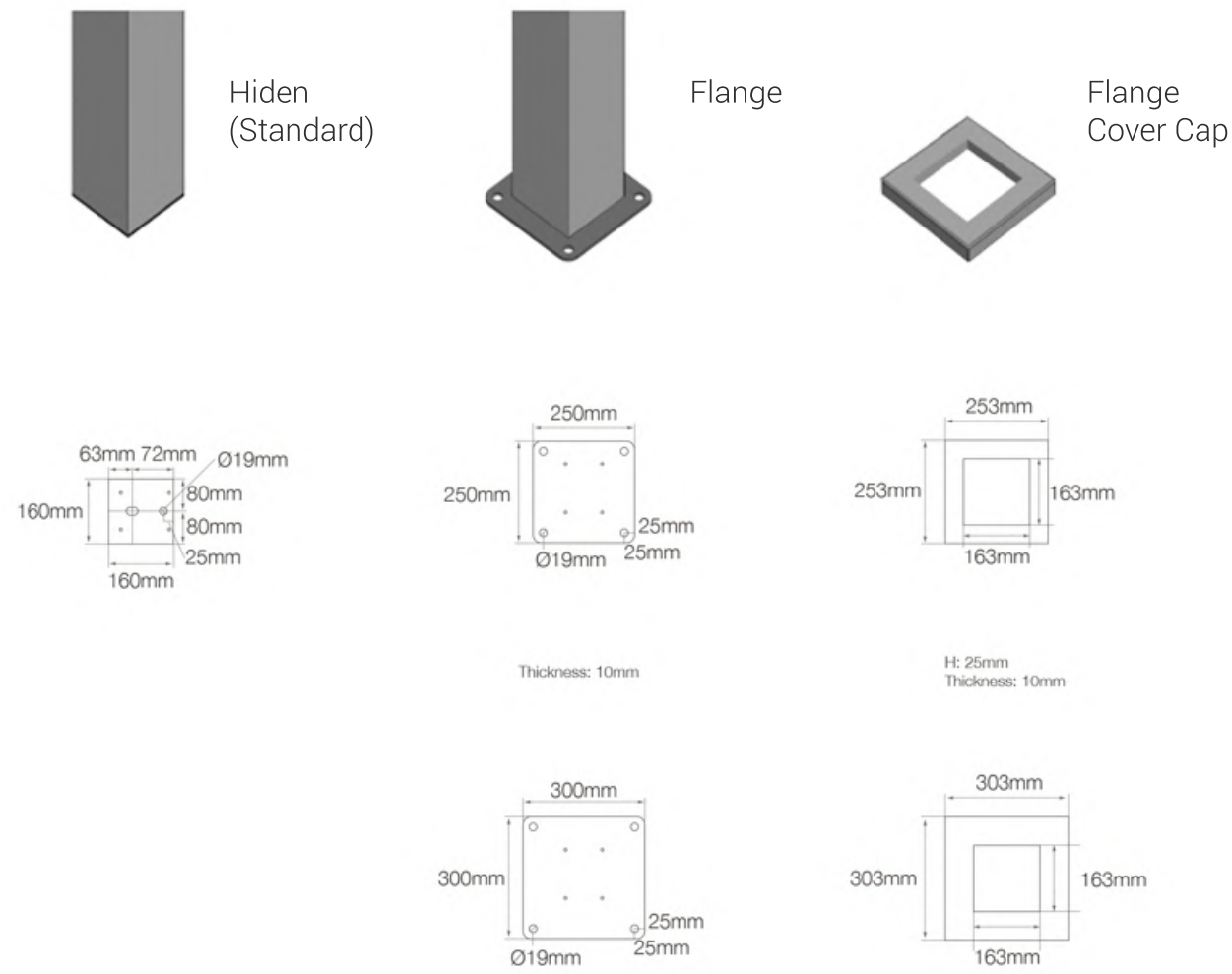


## Intra-Column Drainage Pipe

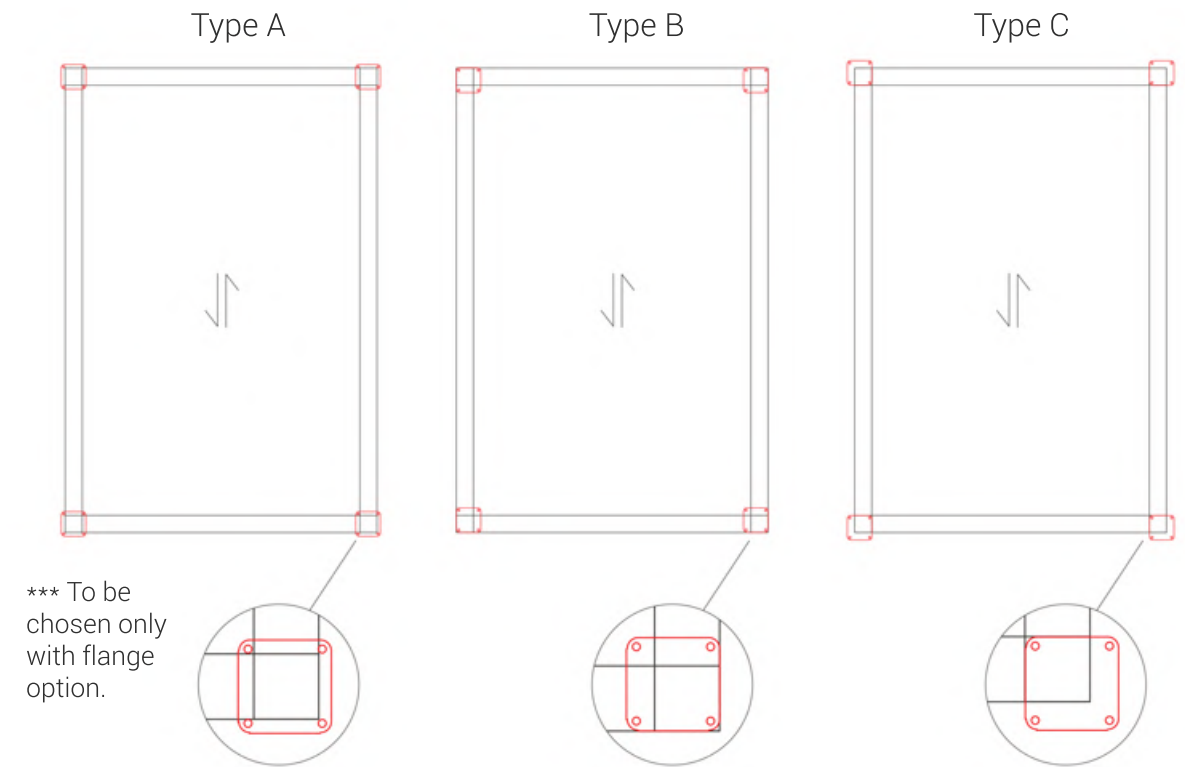
The water can be drained through internal drainage pipe and it eliminates factors that could block correct water flow. Intra-column drainage pipe collects the water and discharges to the ground.



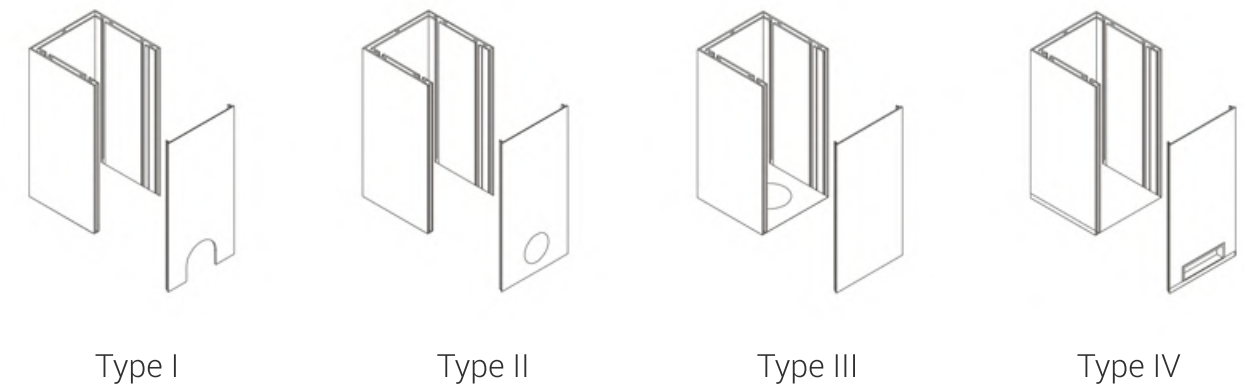
# Cloumn Base Options



# Flange Positions



# Drainage Types



# Wall Installation Louvre Positions

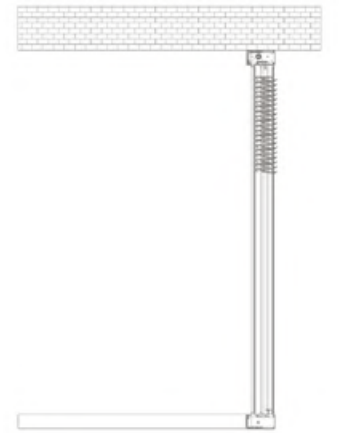
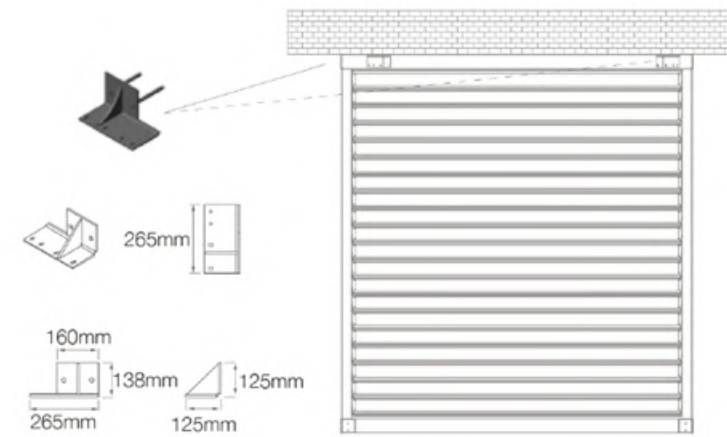
Paralel To Wall



Vertical To Wall

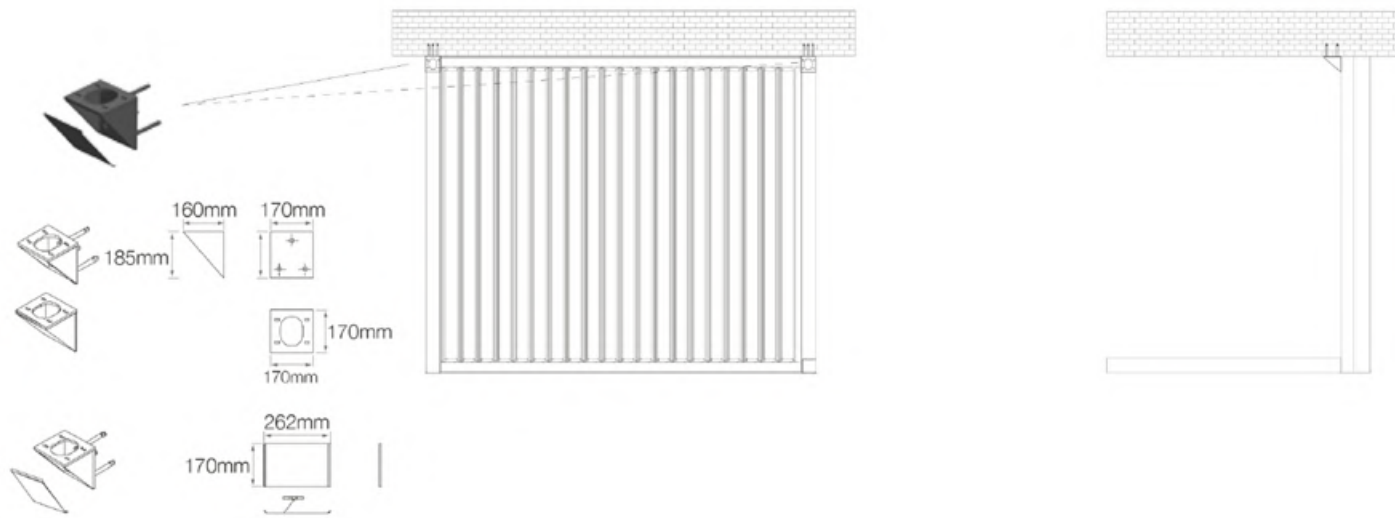


Inner (Hidden) Wall Bracket (Inox)



# Hang Bracket Types

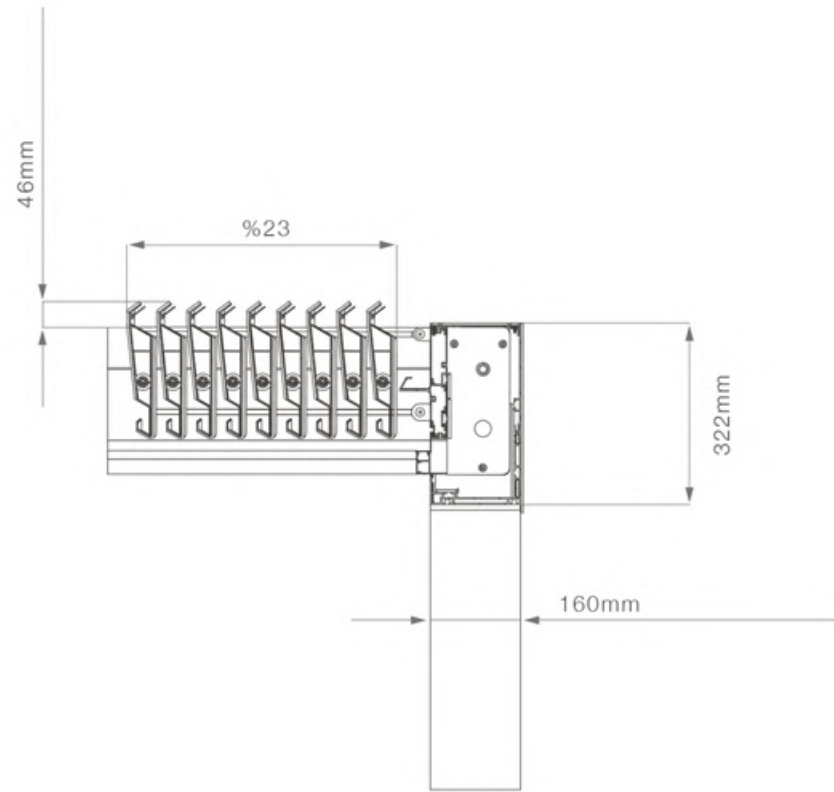
Vertical Mounting Outer Wall Bracket (Inox) With Optional Cover Cap



Paralel Mounting Outer Bracket (Inox) With Optional Cap



## Side Elevation



## Louvre Stormguard Seal

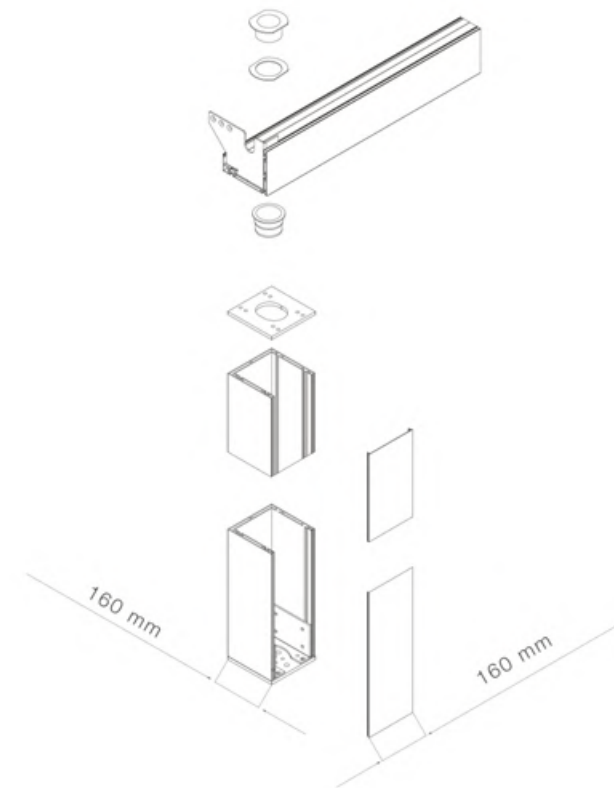
Sealing solution stops water dripping over louvre gutter channel by providing a soft cushioning barrier between point of junction.

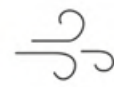
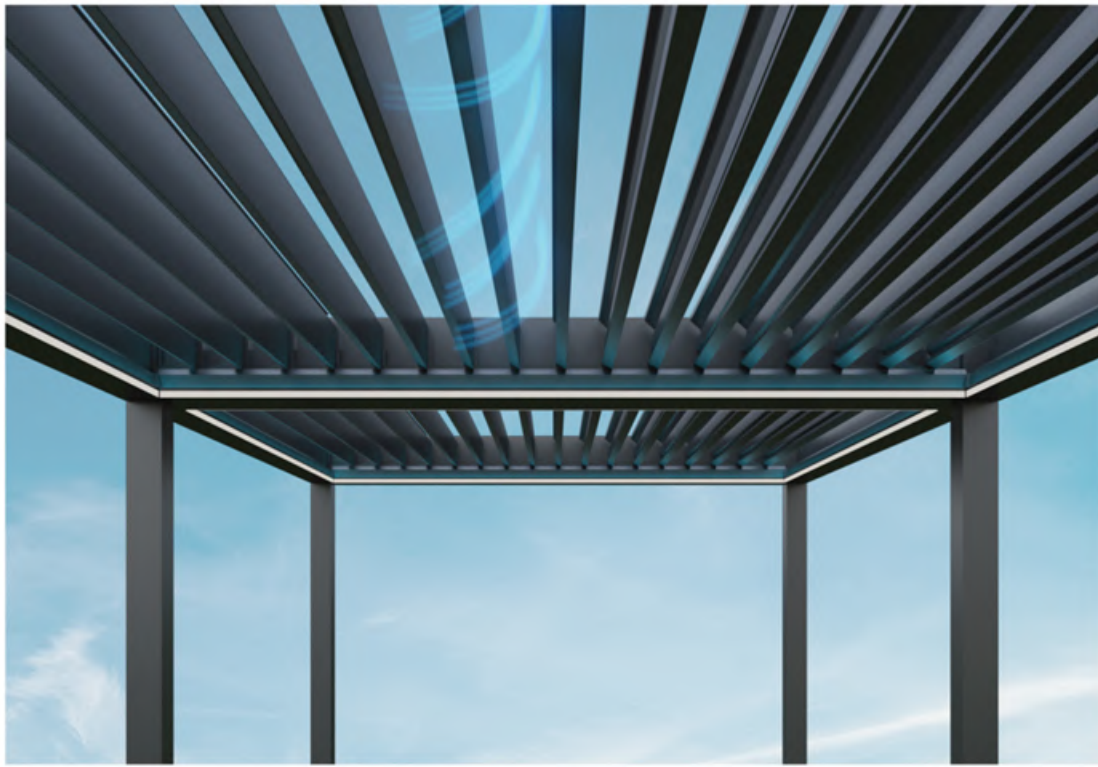


## Cloumn Connection

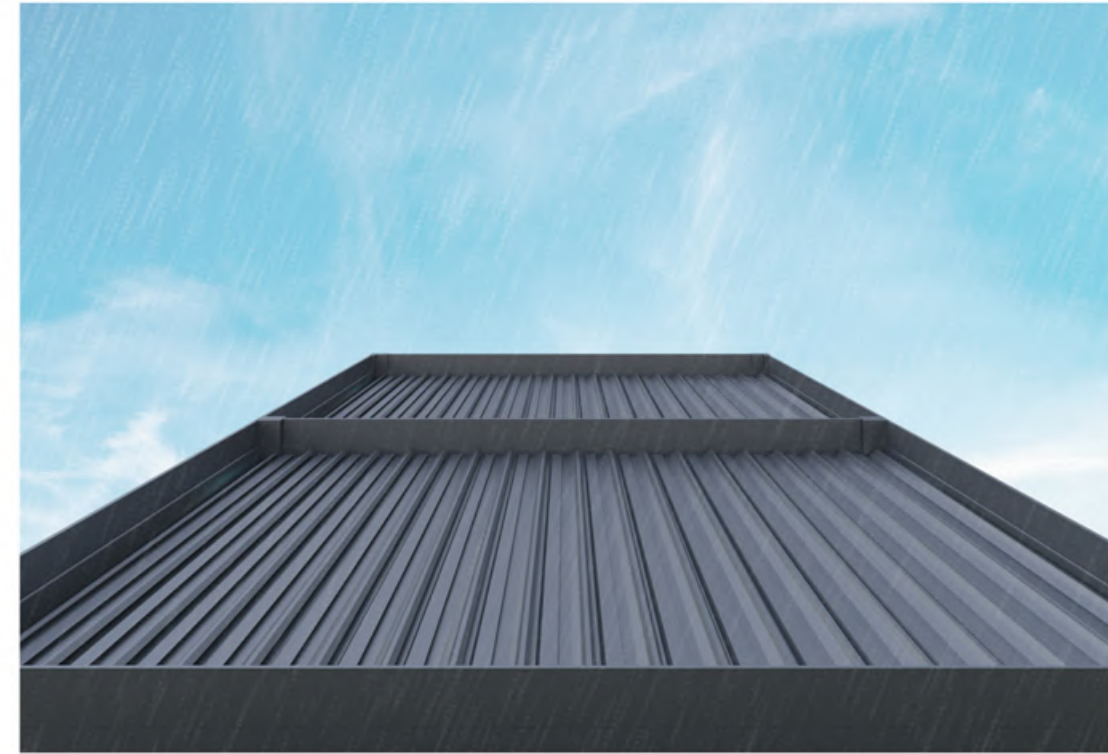
Thanks to ease of column base assembly each column can be installed practically through a series of simple operations that guarantee installation quality and speed to reduce number of staff required.

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

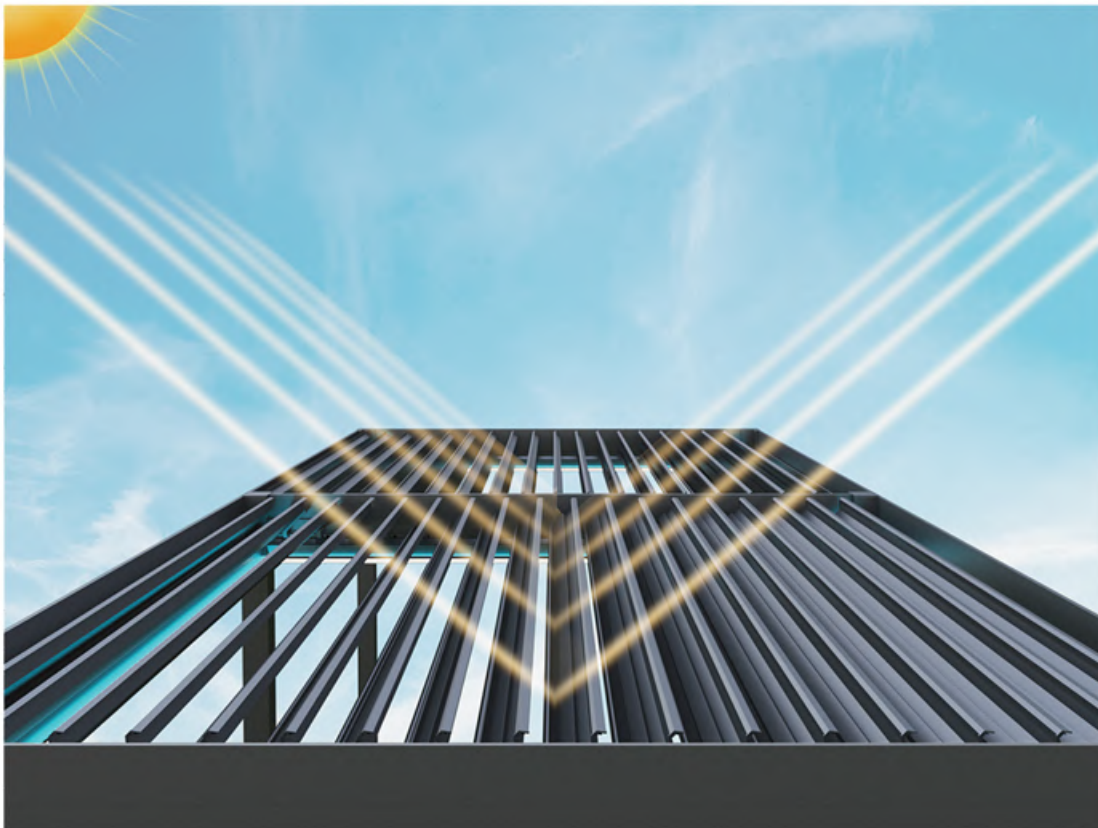




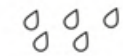
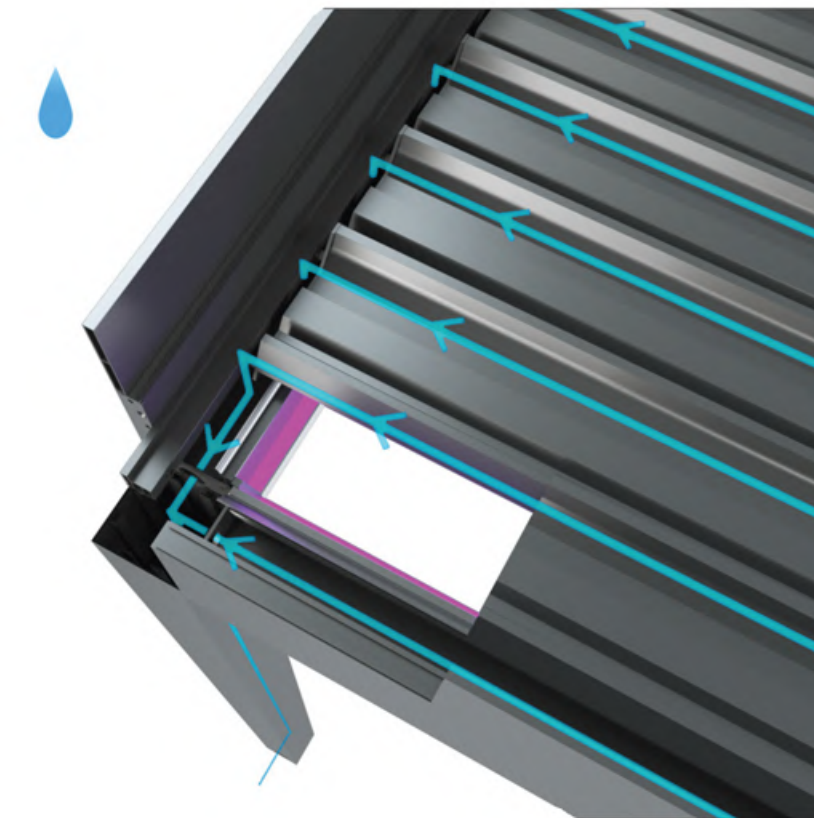
Slightly opening of louvres creates natural air flow for application areas.



Ensuring waterproof coverage when louvres in fully closed position



Protecting from sun exposure while air ventilation under the system.



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



Functional seal integrated on louvre channels provides maximum protection from water dripping

## Project Dimensions

Width dimension: Any value between 1800mm and 4000mm

Projection dimension: Adjustable according to louvre quantity

		WIDTH	
		1800	4000
6	1569		
7	1764		
8	1959		
9	2154		
10	2349		
11	2544		
12	2739		
13	2934		
14	3129		
15	3324		
16	3519		
17	3714		
18	3909		
19	4104		
20	4299		
21	4494		
22	4689		
23	4884		
24	5079		
25	5274		
26	5469		
27	5664		
28	5859		
29	6054		

## Technical Details



Max. width for single module	4000 mm
Max. projection single module	6054 mm
Rafter profile dimension	110x260 mm
Post dimension	160x160 mm
Louvre dimension	180 mm
Louvre quantity in max. size	29 pcs
Louvre can be tilted up to	90 degrees
Louvres parking area	23%
Automation	included
Control unit	included
Led Stripe Dimmer lighting	optional
RGB Led - Hidden Stripe lighting	optional
Insulation Foam	optional
Drainage pipe	optional
Flange	optional
Rain Sensor	optional
Wind Sensor	optional

## Technical Specifications Allroof

New Generation Outdoor Covering Solutions  
With Tilting And Retractable Bioclimatic Systems

### Description

Allroof is new generation of high-tech bioclimatic solution that is composed of high grade structural frame and tilting & retractable louvres.

### Dimensions

One Module

Width 1800 mm < 4000 mm

Projection 1569 mm < 6054 mm

Cloumn Height 3000 mm

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

### Technical Characteristics

- Extruded aluminium frame, blades & gutters - clean edges.
- Electrostatic powder-coated frame.
- High quality aluminium 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 4000 mm dimension.
- Remote control for operation mechanism and lighting
- Double-walled aerofoil louvres with superior strength and durability
- Adjustable louvres for any position within the 90 degree range.
- Extended open sky when roof retracted (open sky up to %77)
- Dimmer option to adjust luc intensity.
- Antibacterial polyurethane foam insulation 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 patented storm channel profile.
- Applicability of gillotine, 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.
- The water is flowed down to the main gutters by special drainage channels along the louvres and drained through columns.
- Internal rainwater down-pipe for columns.
- Hidden direct drive double shaft motorbox with 56 NM torque Somfy motor operates tilting and retracting motion (2 pieces).
- Production in compliance with CE, ISO 1400 and NVA standards.
- In addition to standard RAL colors, Exclusive and Texture range aluminium colors can be offered as extended selection.
- Functional louvre layout paralel or vertical to wall.

## II | Installation Methods

- Individual modules can be customised according to specified finish up to 4000mm width and 6000mm projection 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.

## III | Columns

- Dimensions 160 x 160 x 3mm
- Simple column assembly
- The column cap profile can be pulled out simply and inner column conceals the wiring cables of heater, speaker or automations to provide pure appearance.
- 3 different column base options: Hidden, Flange and Flange with cover cap.

## IV | Weather Resistance

### Wind Resistance

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

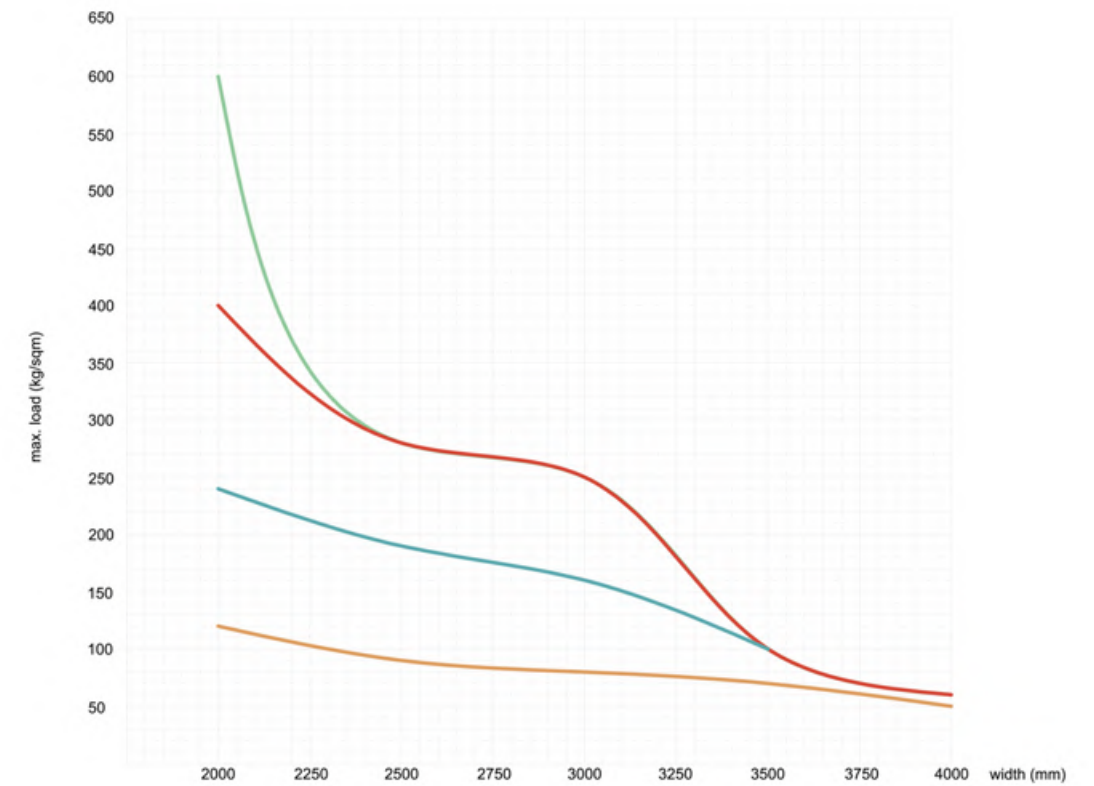
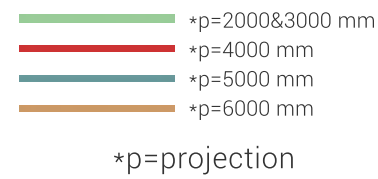
### Water Drainage

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

## Snow Load

See dimension based chart below;

### Free Standing




## V | Tests

Our systems are subjected to various checks to confirm that they can maintain their performance at full capacity in all conditions. Wind, rain water and snow tests carried out in accordance with international standards offer the perfect performance of our pergolas against the toughest weather conditions.

**Wind Load** 

UNE-EN 13659:2004+A class 6 (up to 102 km/h)

**Snow Load** 

<300kg/m2 (self weight included) Standard EN-1999 EUROCODE 9 aluminium structures project  
\*Values can change according to structure dimensions.

**Rain Load** 

Standard UNE-EN 12056-3, (0,04l/s max.) constant rain. 155 l.m2/h

## VI | Additional Equipments

- Heater, speaker, air conditioner or other automations can be integrated.
- Wind and rain sensors can be adapted.

## VII | Lighting

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

### Led Stripe Dimmer Lighting

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

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

### RGB Led-Hidden Stripe Lighting

60 Leds/m

\*Lumen values may change due to different color selections.

## VIII | Sensors

Wind and rain sensors can be adapted for an optimum level of comfort. These 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 the wind then retract you 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 close the roof depending on a pre-set wind speed value. Thanks to ease of installation and minimal cabling it can be setup with ease.

### Sun sensor

The sun sensor provides automatic control according to the intensity of sunlight in the environment. It changes the position of the roof according to the light intensity and protects it from the damage of UV rays.

### Rain sensor

The rain sensor automatically detects rain and prevents rain from entering through the open roof even if you are not there.

The sensor will close the roof when rain is detected and will require a remote control to turn it back on.

### Wind & Sun sensör

Wind and sun sensor can be used together. The system automatically detects both sun and wind and automatically closes the roof when necessary.

## IX | Closures

Motorized guillotine, Sliding Glass, Folding Frameless Glass can be used to completely close the systems. Zippex Zip and/or Swing systems can be integrated for additional protection against external factors and a more stylish stance.

### Motorized Guillotine

- Systems can include framed tempered 8 mm and 10 mm single or 4mm+12mm+4mm / 5mm+10mm+5mm double insulated glass.

- Optional 2 or 3 panel configurations available, up to 4 meters wide and 3 meters high, or 3 meters wide and 3.5 meters high.

- Electrostatic powder coated frame.

- Working is motorized.

- Up or down parking position options.

- Fixed panels can be used as balustrades.

- The position of the movable panels can be adjusted according to the desired height.

- Thanks to the reinforced counterweight movement mechanism, the motor provides balanced and silent up/down operation.

- Completely hidden motor driver.

- Key, remote or smart home control availability.

- Thin frames with heat and sound insulation rubber gaskets.

- Wide-open view with vertical glass panels up to 4 meters wide.

## Folding Glass

- Electrostatic powder coated frame.
- Individual panels can be moved horizontally with single or double scrolling options.
- Double roller lower wheel trolleys provide optimum and inclined operation even on large glass panels.
- Consecutive panels can be moved with the clamp mechanism.
- Trolleys with height adjustable wheels up to 5 mm.
- Curved rail design for efficient drainage.
- Anodized bottom rail for easy and smooth movement.
- Rain and wind resistance with double-sided transparent seals (standard). Brushed transparent gaskets or brushed aluminum slats max.
- Brush and rubber cord for high frame insulation.
- Non-slip rubber provides safe passage and also facilitates rail surface cleaning.
- Transparent sliding glass panels as standard as well as Blue, Green, Smoked and Bronze glass color options.
- Internal or external locking of sliding panels with optional key lock for security measures.
- Flush Circle and Push & Pull Bar handle types and Allen&Key lock.
- Possibility of combination with the Zippex Zip System for sun protection.
- Available with 3 or 5 rails up to a maximum of 10 panels with side or central openings.

## Sliding Glass Frame

The Sliding Frame glazing system is made of thin-frame aluminum covering each individual glass panel, providing individual parallelism.

panels can be moved horizontally with single or double scrolling options.

- Double insulated glass (4+11+4mm).
- Transparent sliding glass panels as standard as well as Blue, Green, Smoked and Bronze glass color options.
- Electrostatic powder coated frame.
- Internal or external locking of sliding panels with optional key lock for security measures.
- Lever with Key Lock or Button lock and Pull Handle with Key Lock.
- Availability in combination with Vertex Zip System for sun protection.
- Available with 2 or 3 rails up to a maximum of 6 panels combined with side or central openings

## Swing

Swing – Automatic vertical up-down glass panel.

It is the preferred system as an automatic vertical up-down glass separator in private or commercial spaces in restaurants, cafes and terraces. Outdoors, besides the fixed panel, it can also have a guardrail function.

- Electrostatic powder coated frame.
- Extruded aluminum fixed panel frame
- Concealed screws to offer a clean surface.
- Horizontal counterweight for smooth movement
- High strength belt mechanism for stable movement.
- 10mm fixed and 8mm up-down automatic moving tempered glass panels.
- Frameless movable glass panel for unobstructed view.
- Led strip dimmer lighting integrated side frame / invisible electrical cables.
- Remote control for the operation of the mechanism and lighting.
- Fast on-off cycle.
- Completely concealed compact direct drive motor system.
- Ease of installation with single or multiple modules.
- Portability with optional wheel integration.

## Zippex Zip System

- The zipper system is designed especially for outdoor use, thanks to the zipper rail system that can tolerate strong winds.

It offers protection and a higher level of privacy.

- Provides comfortable shade and protects against UV rays.
- The system includes a motorized aluminum structure.
- Each screen has a pair of identical side channels
- Fully powder coated with stainless steel components.
- Maximum protection against sun rays and heat ingress while maintaining the most appropriate level of natural light indoors and contact with the environment.
- The production technology of the fabrics provides high resistance to external factors such as wind or temperature changes and moisture.

## Doors

### Glass door

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

### Framed Glass Door

- Electrostatic powder coated frame.
- Hinged and hydraulic framed glass door options are available.
- Double insulated single panel and double panel (each panel max. 1000mm) options are available.
- Double insulated glass (4+11+4 mm)
- Transparent panels include smoked, green, blue and bronze color options besides the standard.
- Door handle height can be changed according to demand, except standard (110cm).
- Internal or external locking system option for glass sliding panels for security.
- push/pull tube style door handles
- Pull handle / lock

### Photocell Door

- Automatic glass door with aluminum frame.
- Electronic lock
- Possibility of manual use in emergency situations
- Electrostatic powder coated frame.
- Single panel and double panel (each panel max. 1000mm)
- Quick on-off cycle and strong insulation materials that protect the heat balance between indoor and outdoor areas.
- Single or double sided control key systems.

### X | Structure Color Options / Finishes

- The products have a wide range of colors and architectural texture coating options.
- In addition to the standard RAL code colors, exclusive and texture range aluminum colors can be offered.
- In addition to Qualicoat, QualiMarine and Qualanod coatings are also available.

### XI | Warranty

	Allroof	Guillotine	Sliding Glass	Folding Glass	Zippex	Swing
Structure and coating	5 yil	5 yil	5 yil	5 yil	5 yil	5 yil
Motor and control units	2 yil	2 yil	2 yil	2 yil	2 yil	2 yil
Lights and control units	2 yil	N/A	N/A	N/A	N/A	2 yil
**Enduser and installation defects are not covered						

## Operations

Retractable & Tilting



Tilting



## Lighting Options

Led Stripe Dimmer Lighting



Cool White  
5100 K



Day Light  
2800 K

RGB Led-Hiddes Stripe Lighting



Optional  
Insulation Foam



Rain  
Sensor



Wind  
Sensor



## Installation Types

Self Standing Single Module



Self Standing Multiple Modules



Wall Mounting Single Module



Wall Mounting Multiple Modules



## Closures

Guillotine



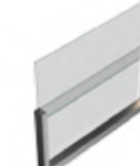
Sliding Glass Frame



Folding Glass



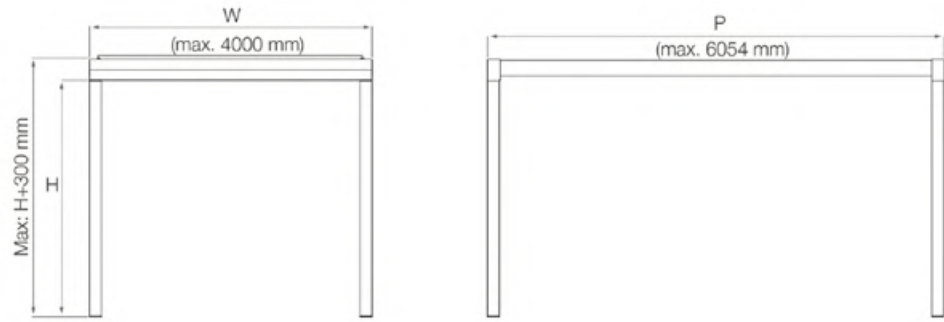
Swing



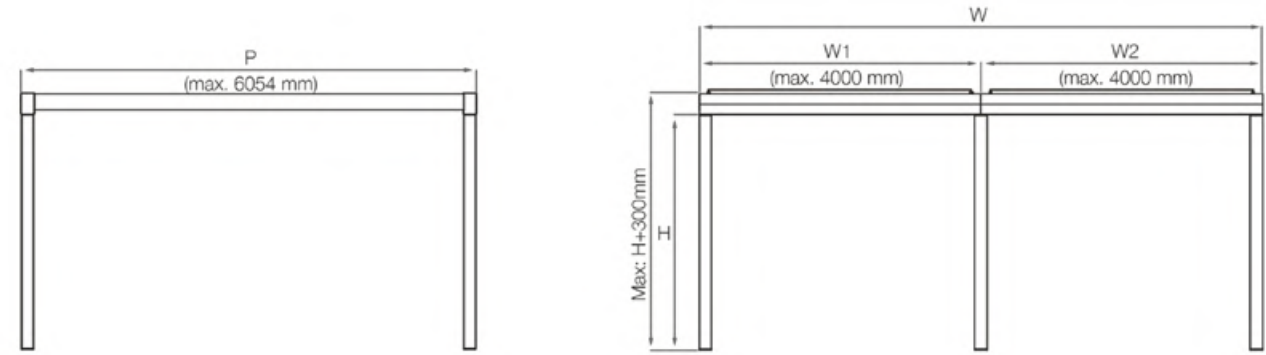
Zippex



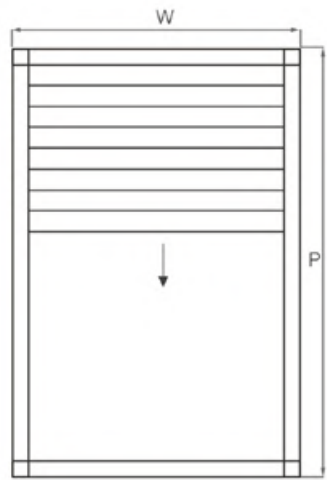
Single Module  
W: 1800 mm < 4000 mm  
P: 1569 mm < 6054 mm



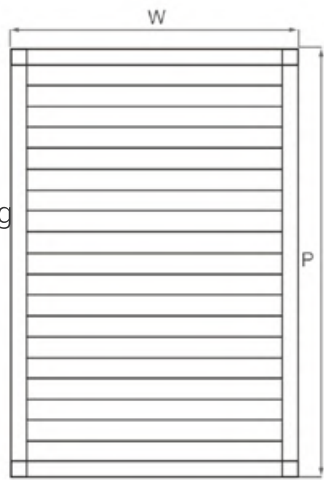
Multiple Modules Joining Type 1  
W: 3600 mm < 8000 mm  
P: 1569 mm < 6054 mm



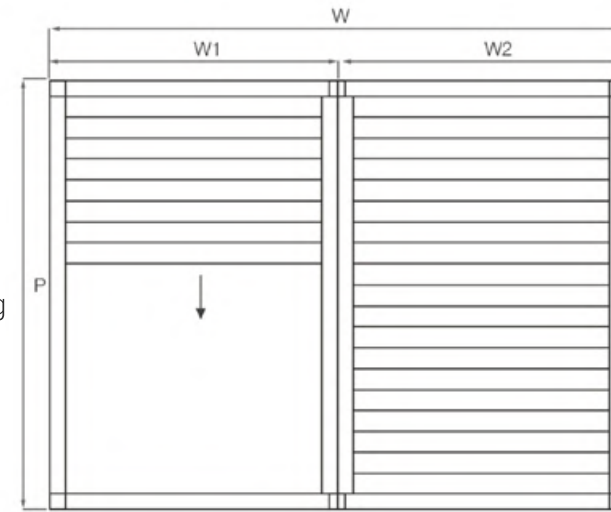
Retractable & Tilting



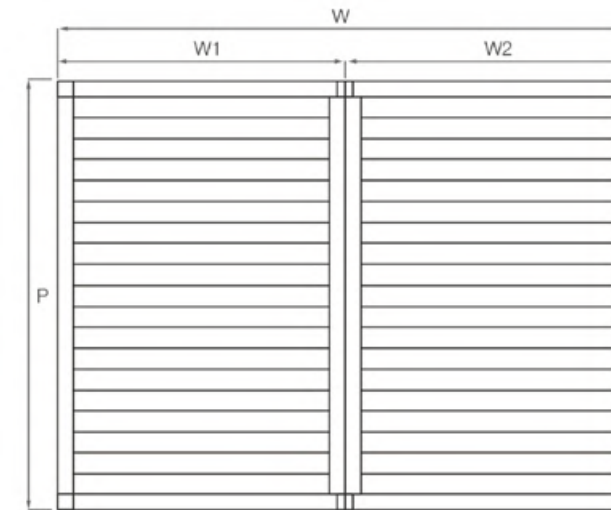
Tilting



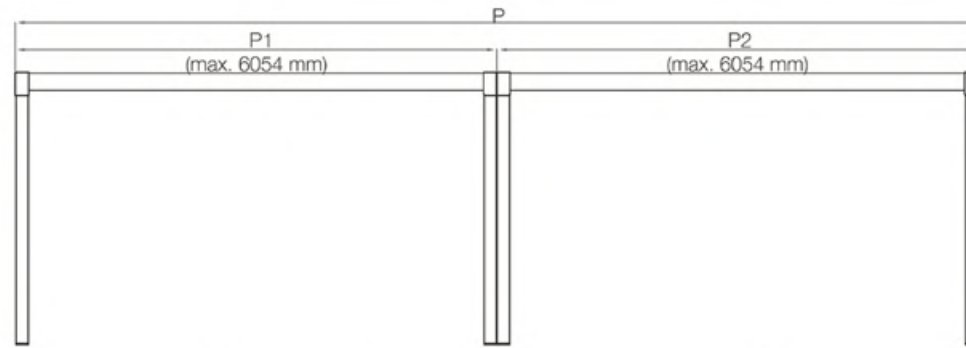
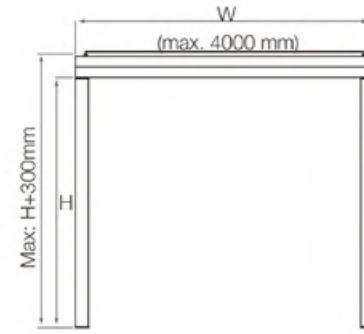
Retractable & Tilting



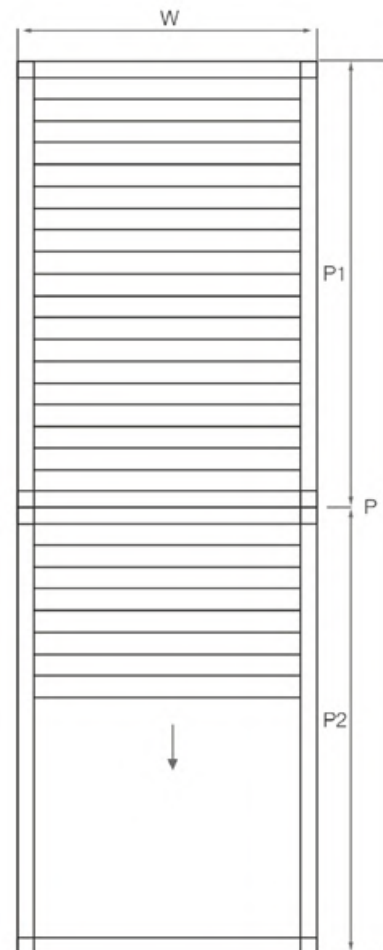
Tilting



Multiple Modules Joining Type 2  
W: 1800 mm < 4000 mm  
P: 3138 mm < 12108 mm



Retractable & Tilting



Tilting

