soltec

More life.

CATALOGUE

Bioclimatic Pergolas & Canopies

Contents

4 Introduction
6 Basic Characteristics of Bioclimatic Pergolas and Canopies

8 **BIOCLIMATIC PERGOLAS**
10 Installation
11 Colors
12 Dimensions and Features
14 Overview of Load-Bearing Elements
16 Load Capacity of Louvers
17 **Bioclimatic Pergola SL 160/28**
18 **Bioclimatic Pergola SL 170/28**
19 **Bioclimatic Pergola SL 170/36**
20 **Bioclimatic Pergola SL 240/36**
21 **Bioclimatic Pergola SL 240/60**
22 Solutions for Non-Standard Lengths
23 Patent
24 Technical System Description

26 **CANOPIES FOR ENTRANCES AND TERRACES**
28 Installation
29 Colors
30 **F** / Dimensions and Features
31 **F** / Overview of Load-Bearing Elements
32 **Canopy F170**
33 **Canopy F240**
34 Model **F170** / Roof Configurations for 4 Posts
37 Model **F240** / Roof Configurations for 6 Posts
40 **G** / Dimensions and Features
41 **G** / Overview of Load-Bearing Elements
42 **Canopy G170**
43 **Canopy G240**
44 Roof Types

46 **COMBINED CANOPIES**
48 Types of Combined Roof Configurations for Pergolas and Canopies
50 Fixed Glass Roof

52 **ADDITIONAL EQUIPMENT**
54 Overview of Additional Equipment
56 ZIP Roller K130
58 Sliding Panels H50
62 Fixed Walls FW25 and FI30
64 Glass Sliding Panels G1
66 Glass Folding Panels G2
68 Brise-Soleils E300
70 Railing TYPE 1
72 Vertical Decorative Columns R120
74 Decorative Ceiling from Wooden or ALU Slats
76 For More Comfort
78 External Anchoring Options
79 Internal Anchoring Options
80 Wall Mounting
81 Drainage Options
82 Wind Resistance

88 General Sales Terms and Warranty
90 Our Products
94 Contact

THE PERFECT OUTDOOR SPACE

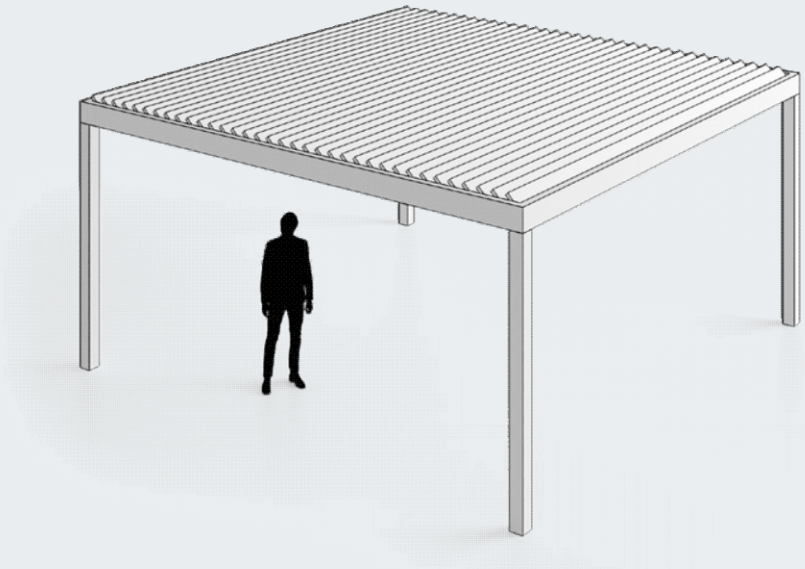
Our bioclimatic pergolas and canopies are designed with a unified, compatible structure, allowing seamless combinations for a refined aesthetic. This creates a harmonious and well-organised outdoor space tailored to your needs. You can combine bioclimatic pergolas and canopies with an aluminium, glass, or green roof. Thanks to a modular approach, all elements can be customised to your preferences, enabling a complete solution for your home or business space.

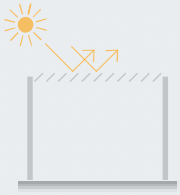
soltec

Soltec **Bioclimatic Pergolas**

Patented waterproof blades
Patent No. SI 24401 A

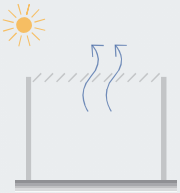
7-year warranty



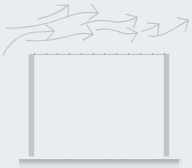


Sun protection

Rain protection with integrated drainage



Ventilation

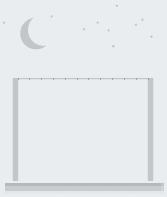


Wind resistance

Adjustable shading: Rotating blades allow precise control over light and shade.

Natural ventilation and thermal regulation: By adjusting the blade angles, air circulation is optimised, creating a comfortable microclimate.

Optional accessories: ZIP screens, aluminium sliding panels (infill ALU or wood), glass sliding and folding panels, LED lighting, heaters, sensors, vertical decorative columns, brise-soleils, and fences.



Temperature regulation

Snow protection

FEATURES OF PERGOLAS & CANOPIES

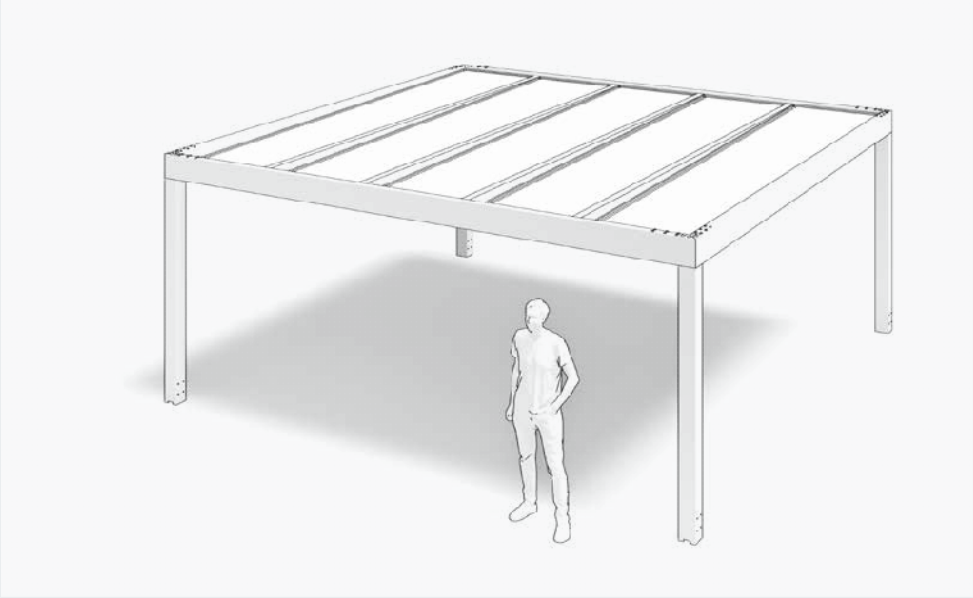
Custom-made solutions

Combined canopy: A bioclimatic pergola and fixed canopy integrated into a single structure

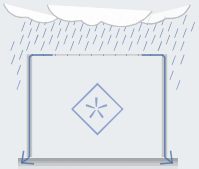
High stability, even in extreme weather conditions

Soltec

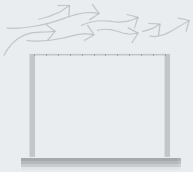
Canopies for entrances and terraces



Structure: 7 years, ISO panels: 10 years*



Rain protection with integrated drainage



Wind resistance

Snow protection

Roofing options: ISO panel (3 cm), laminated toughened glass, or green roof

Canopies for entrances and terraces

Optional accessories: ZIP screens, aluminium sliding panels (infill ALU or wood), glass sliding and folding panels, LED lighting, heaters, sensors, vertical decorative columns, sun breakers, and fences.

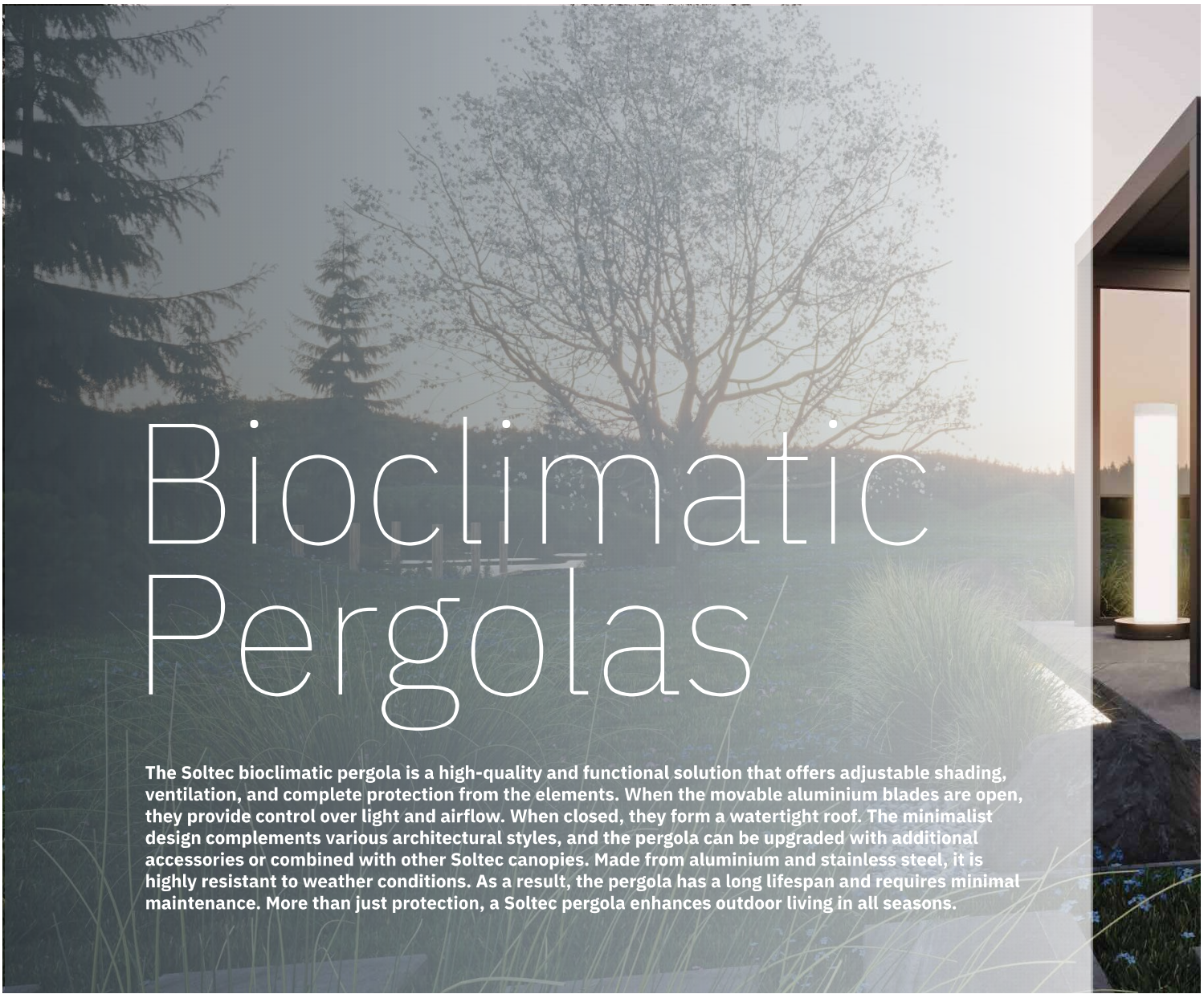
FEATURES OF PERGOLAS & CANOPIES

Long lifespan

Minimalist design with concealed joints

Wide range of colours and materials for full customisation

* The warranty for ISO panels is valid only if all conditions and requirements set by the ISO panel supplier are met.

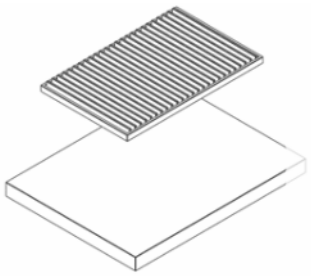


Bioclimatic Pergolas

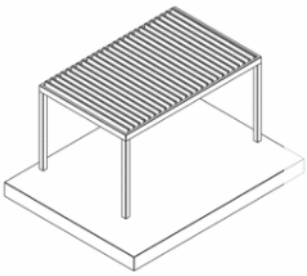
The Soltec bioclimatic pergola is a high-quality and functional solution that offers adjustable shading, ventilation, and complete protection from the elements. When the movable aluminium blades are open, they provide control over light and airflow. When closed, they form a watertight roof. The minimalist design complements various architectural styles, and the pergola can be upgraded with additional accessories or combined with other Soltec canopies. Made from aluminium and stainless steel, it is highly resistant to weather conditions. As a result, the pergola has a long lifespan and requires minimal maintenance. More than just protection, a Soltec pergola enhances outdoor living in all seasons.

Technical Specifications

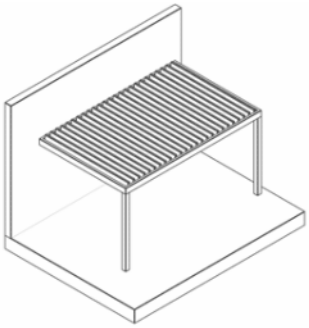
Configurations



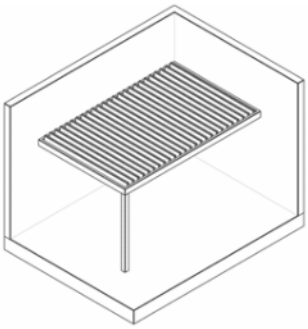
TYPE 0
Without columns



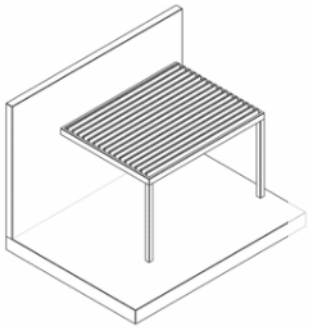
TYPE 1
Freestanding structure



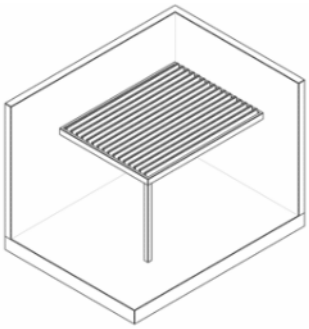
TYPE 2
Wall-mounted, blades perpendicular to the wall



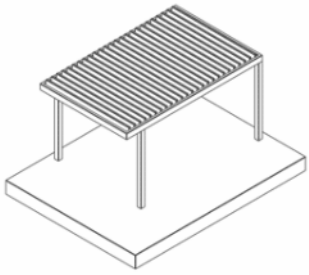
TYPE 3
Wall-mounted, blades perpendicular to the wall



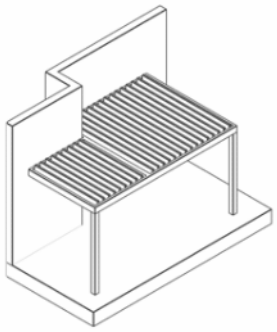
TYPE 4
Wall-mounted, blades parallel to the wall



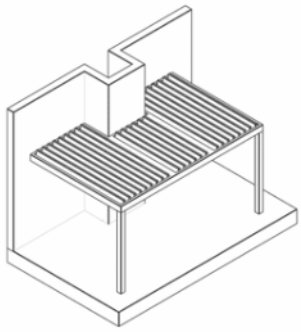
TYPE 5
Wall-mounted, blades parallel to the wall



TYPE 6
Freestanding structure, flexible column arrangement



TYPE 7
Wall-mounted, blades perpendicular to the wall



TYPE 8
Wall-mounted, blades perpendicular to the wall

Technical Specifications

Colours

	Colour	Finish
FRAME AND BLADES		
Standard Colours		
	Anthracite Grey RAL 7016	**Fine Texture**
	Aluminium Grey RAL 9007FS	**Fine Texture**
	Aluminium White RAL 9006FS	**Fine Texture**
	Traffic White RAL 9016FS	**Fine Texture**
	Oyster White RAL 1013FS	**Fine Texture**
	Chocolate Brown RAL 8017FS	**Fine Texture**
	RAL DB703FS	**Fine Texture**

OPTIONS

* Additional charges apply. Gloss level accuracy is approximately ±5%.

Customise your pergola by choosing from over 1,600 available RAL shades, along with various gloss levels and surface treatment standards.*

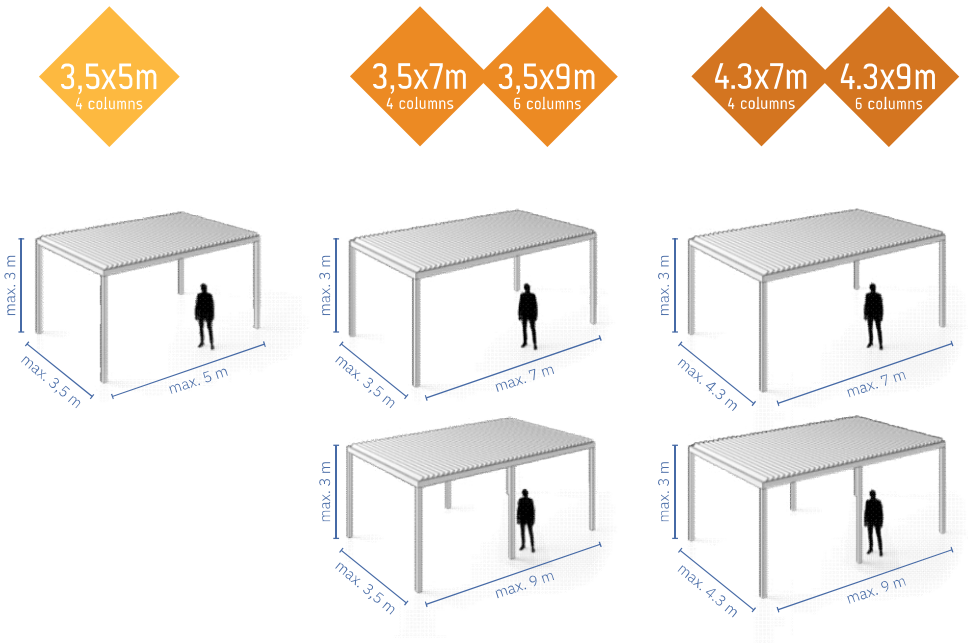
RAL 1000 › RAL 9023

Different gloss levels available.*

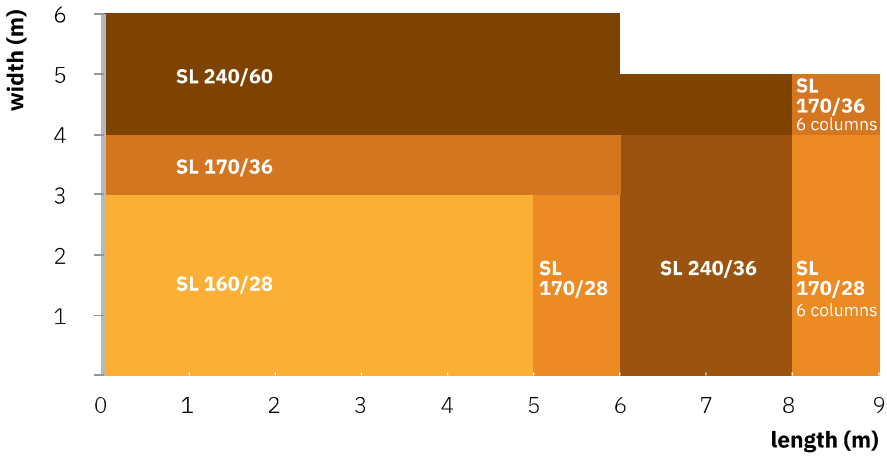
Gloss levels:
< 30 % Matt
> 65 % Satin
> 80 % Gloss

Technical Specifications

Dimensions and Features of the Bioclimatic Pergola



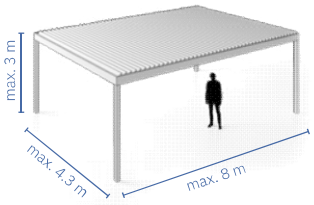
Model	Bioclimatic Pergola SL 160/28 PROFILE 16 S BLADE	Bioclimatic Pergola SL 170/28 PROFILE 17 S BLADE	Bioclimatic Pergola SL 170/36 PROFILE 17 L BLADE
Blades	200/28	200/28	200/36
Profiles	160/120	170/120	170/120
Columns	120/120	120/120	120/120
Maximum dimension - 4 columns	3,5 x 5 m	3,5 x 7 m	4,3 x 7 m
Maximum dimension - 6 columns		3,5 x 9 m	4,3 x 9 m
Anchoring	Internal / External	Internal / External	Internal / External
Water drainage	Standard / Optional	Standard / Optional	Standard / Optional
Number of water outlets	2	2 / 3	2 / 3
Motorisation	1 motor	1 motor / 2 motors	1 motor / 2 motors

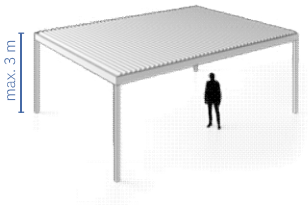


Use the chart to select your preferred pergola model based on the required width and length.
With five different pergola models, you can achieve the best balance between price and load capacity, covering an area of up to 40 m².

4.3x8m

40m²

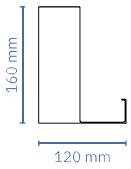
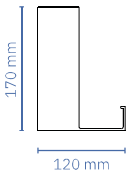
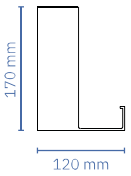
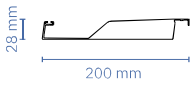
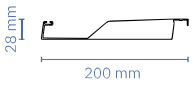
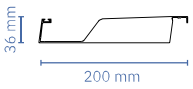
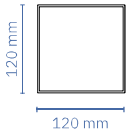
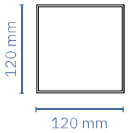
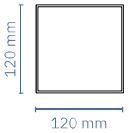




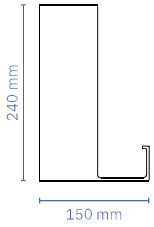
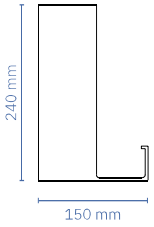
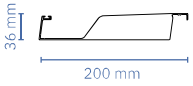
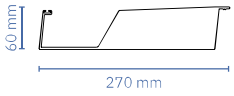
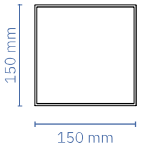
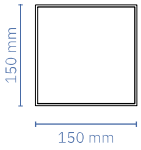
Model	Bioclimatic Pergola SL 240/36 PROFILE 24 L BLADE	Bioclimatic Pergola SL 240/60 PROFILE 24 XL BLADE
Blades	200/36	270/60
Profiles	240/150	240/150
Columns	150/150	150/150
Maximum module 1 modul	4.3 x 8 m	6 x 6 m, 5 x 8 m, max. 40 m²
Anchoring	External	External
Water drainage	Standard / Optional	Standard / Optional
Number of water outlets	2 / 3	2 / 3
Motorisation	1 motor / 2 motors	1 motor / 2 motors

Technical Specifications

Overview of the Primary Structural Components of the Bioclimatic Pergola

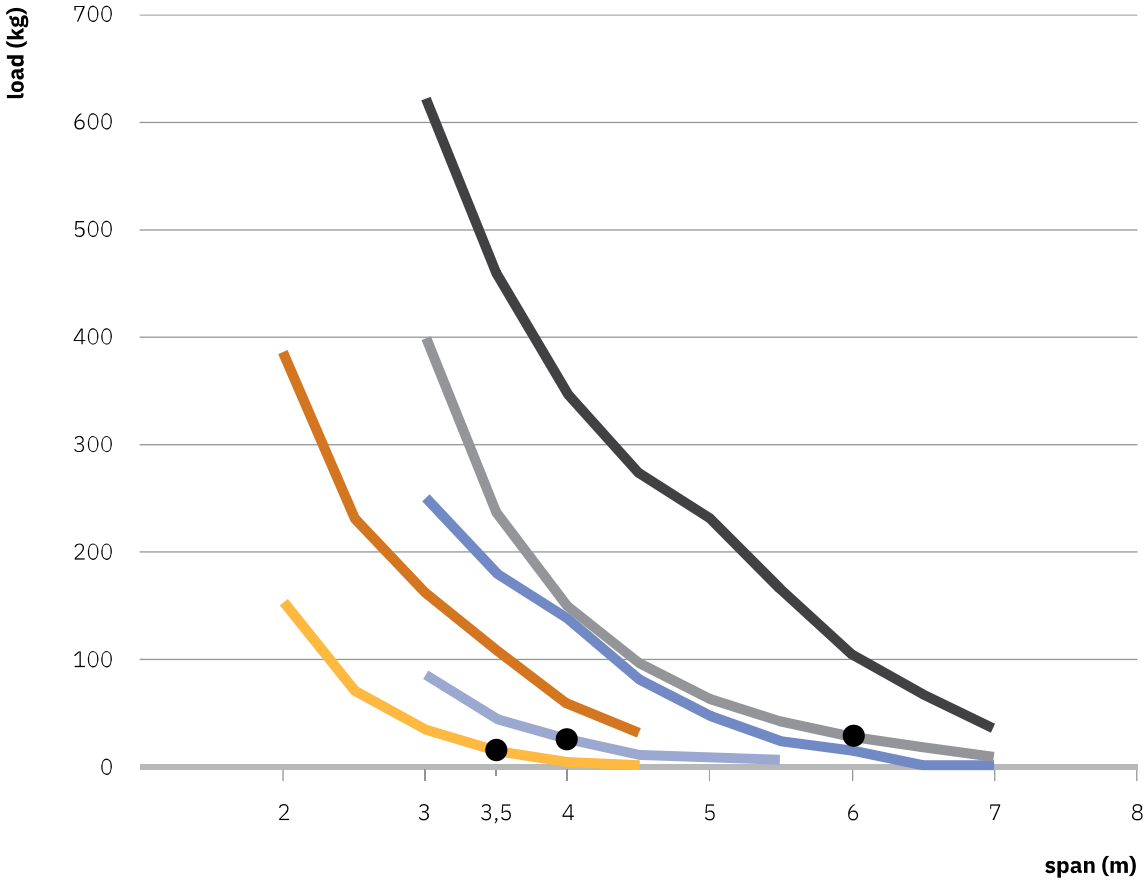
Model	Bioclimatic Pergola SL 160/28	Bioclimatic Pergola SL 170/28	Bioklimatska pergola SL 170/36
Profiles	PROFILE 16 	PROFILE 17 	PROFILE 17 
Blades	S BLADE 	S BLADE 	L BLADE 
Columns	COLUMN 	COLUMN 	COLUMN 

Aluminium profiles, blades, and columns. All standard components are made of stainless steel.

Model	Bioclimatic Pergola SL 240/36	Bioclimatic Pergola SL 240/60
Profiles	**PROFILE 24** 	**PROFILE 24** 
Blades	**L BLADE** 	**XL BLADE** 
Columns	**COLUMN** 	**COLUMN** 

Technical Specifications

Load Capacity of Blades



- **Blade S** / Load Capacity
- **Blade S** / Functionality
- **Blade L** / Load Capacity
- **Blade L** / Functionality
- **Blade XL** / Load Capacity
- **Blade XL** / Functionality

Depending on the blade span, you can choose from three types of blades with different load capacities: S, L, and XL.

The graph presents two types of load capacities for each blade type: functional and ultimate load capacity. Functional load capacity is achieved when deformation under a given load reaches L/200 (L represents the blade length). Ultimate load capacity is reached when the blade's cross-section utilisation reaches 80% of its total capacity.

Before use, all foreign objects must be removed from the roof. In the case of snow or additional loads, these must be cleared. Proper drainage must be ensured to allow free water evacuation from the roof. When selecting a blade type, a minimum additional load of 30 kg should be considered to account for basic environmental factors.

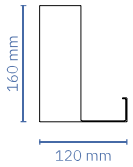
Technical Specifications

Soltec **Bioclimatic Pergola**

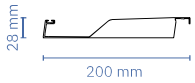
SL 160/28

Blades	200/28
Profiles	160/120
Columns	120/120
Maximum module dimensions	3,5 x 5 m
Anchoring	Internal / External
Water drainage	Standard / Optional
Number of water outlets	2
Motorisation	1 motor

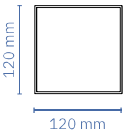
PROFILE 16

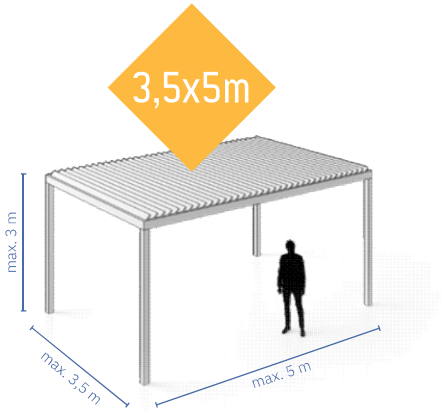


S BLADE



COLUMN

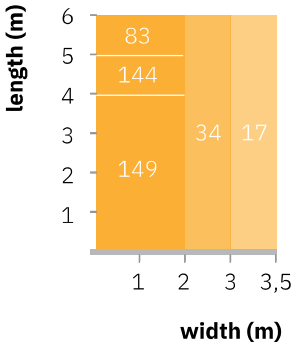




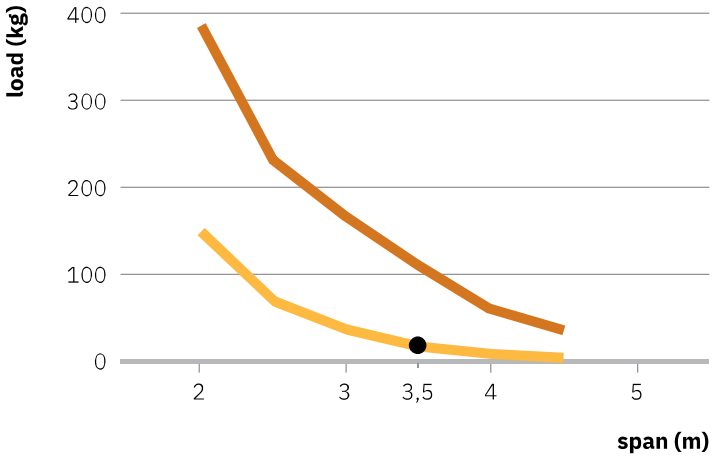
ADDITIONAL EQUIPMENT
from page 52

HIGH CORROSION RESISTANCE
The frame and all standard mechanical parts are made of aluminium and stainless steel.

TOTAL LOAD CAPACITY OF THE PERGOLA (kg/m²)



BLADE LOAD CAPACITY



Blade S / Load Capacity

Blade S / Functionality

● Recommended maximum width in most countries

Technical Specifications

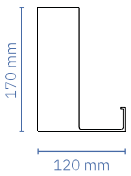
Soltec **Bioclimatic Pergola**

SL 170/28

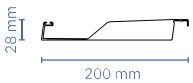
Blades	200/28
Profiles	170/120
Columns	120/120
Maximum dimension - 4 columns	3,5 x 7 m
Maximum dimension - 6 columns	3,5 x 9 m
Anchoring	Internal / External
Water drainage	Standard / Optional
Number of water outlets	2 / 3
Motorisation	1 / 2 motors

ADDITIONAL EQUIPMENT
from page 52

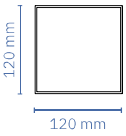
PROFILE 17

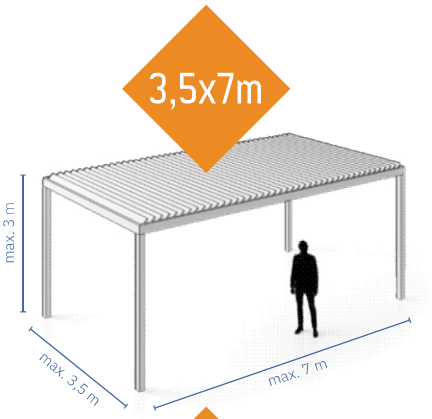


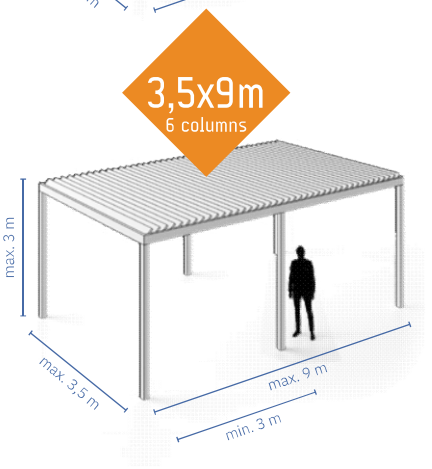
S BLADE



COLUMN

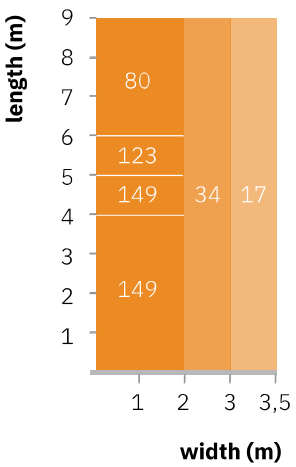






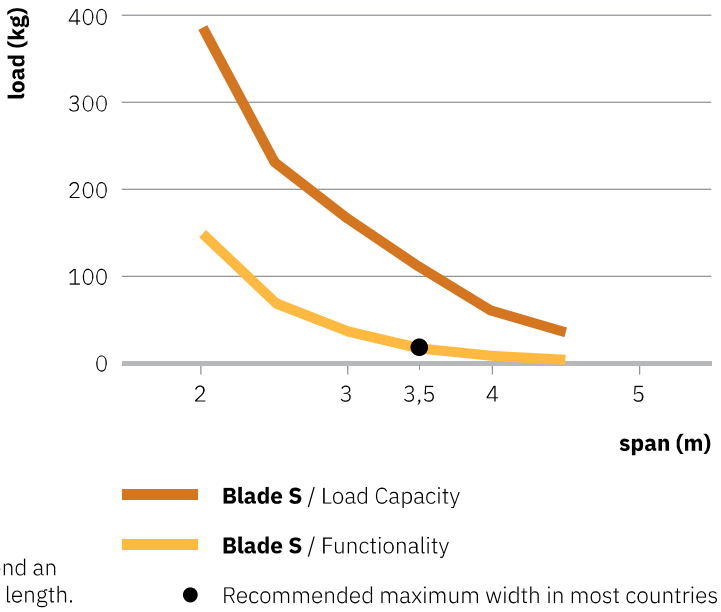
HIGH CORROSION RESISTANCE
The frame and all standard mechanical parts are made of aluminium and stainless steel.

TOTAL LOAD CAPACITY OF THE PERGOLA (kg/m²)



For pergola lengths over 6 m, we recommend an additional column or a 3 cm slope over the length.

BLADE LOAD CAPACITY



Technical Specifications

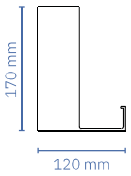
Soltec **Bioclimatic Pergola**

SL 170/36

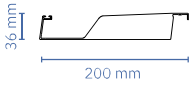
Blades	200/36
Profiles	170/120
Columns	120/120
Maximum dimension - 4 columns	4,3 x 7 m
Maximum dimension - 6 columns	4,3 x 9 m
Anchoring	Internal / External
Water drainage	Standard / Optional
Number of water outlets	2 / 3
Motorisation	1 / 2 motors

ADDITIONAL EQUIPMENT
from page 52

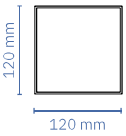
PROFILE 17

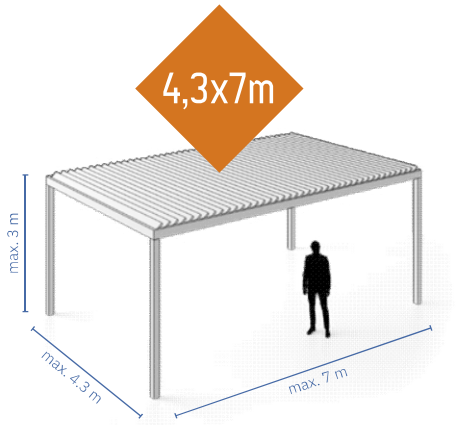


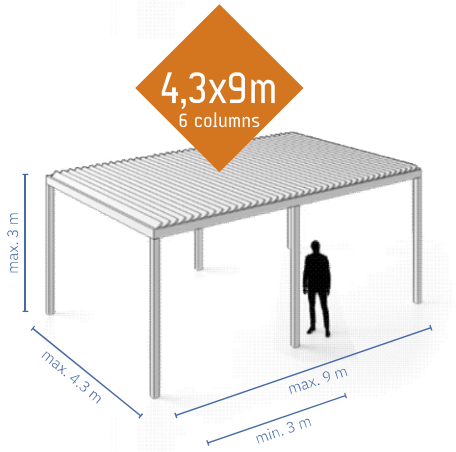
L BLADE



COLUMN

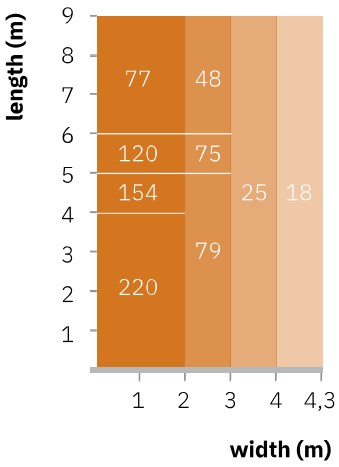






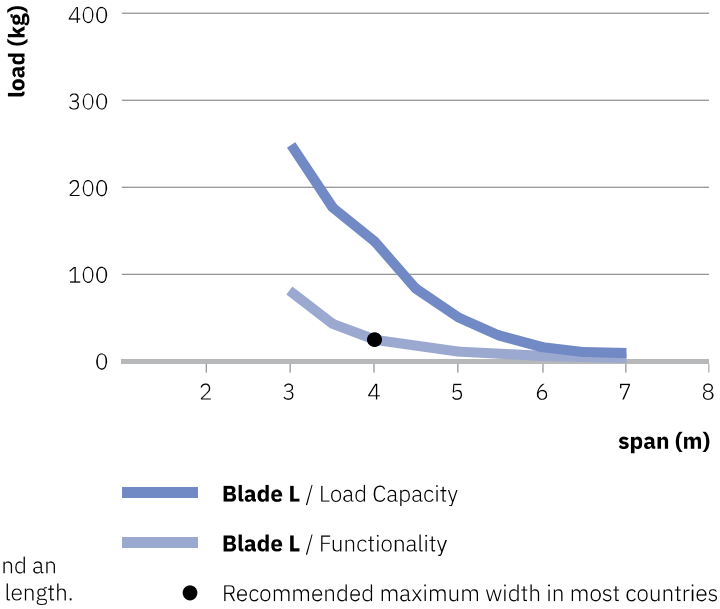
HIGH CORROSION RESISTANCE
The frame and all standard mechanical parts are made of aluminium and stainless steel.

TOTAL LOAD CAPACITY OF THE PERGOLA (kg/m²)



For pergola lengths over 6 m, we recommend an additional column or a 3 cm slope over the length.

BLADE LOAD CAPACITY



Technical Specifications

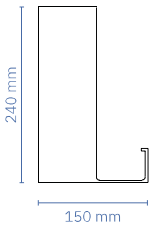
Soltec **Bioclimatic Pergola**

SL 240/36

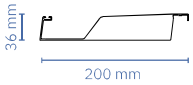
Blades	200/36
Profiles	240/150
Columns	150/150
Maximum module dimensions	4.3 x 8 m
Anchoring	External*
Water drainage	Standard / Optional
Number of water outlets	2 / 3
Motorisation	1 / 2 motors

* Available at an additional cost

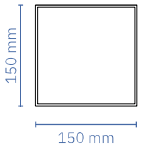
PROFILE 24

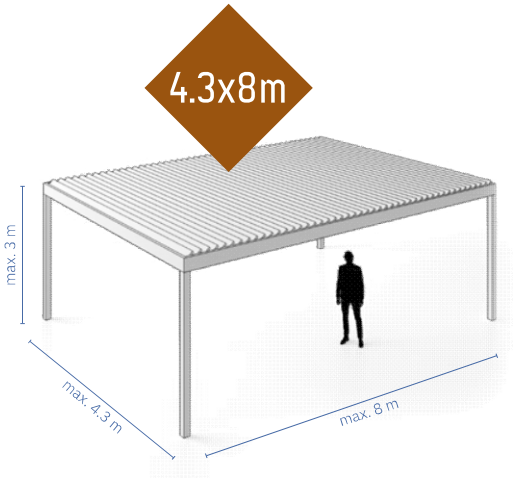


L BLADE



COLUMN



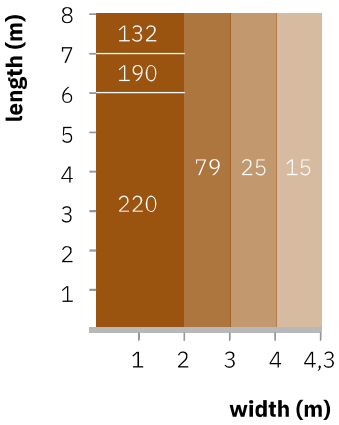


ADDITIONAL EQUIPMENT
from page 52

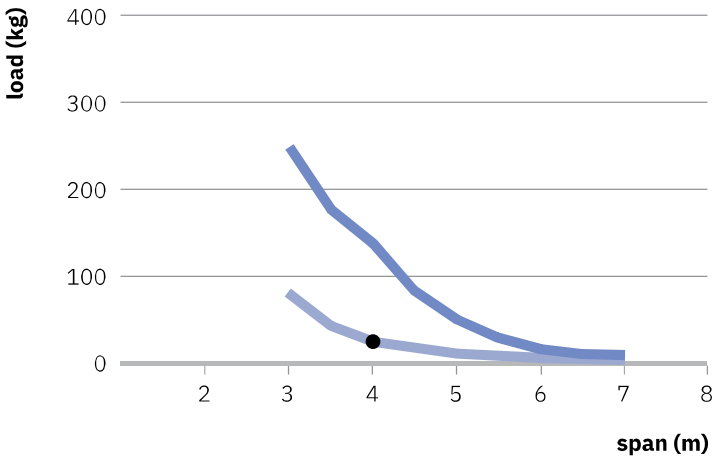
HIGH CORROSION RESISTANCE

The frame and all standard mechanical parts are made of aluminium and stainless steel.

TOTAL LOAD CAPACITY OF THE PERGOLA (kg/m²)



BLADE LOAD CAPACITY



Blade L / Load Capacity

Blade L / Functionality

● Recommended maximum width in most countries

Technical Specifications

Soltec **Bioclimatic Pergola**

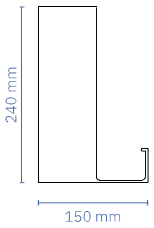
SL 240/60

Blades	270/60
Profiles	240/150
Columns	150/150
Maximum dimensions	6 x 6 m, 5 x 8 m, max. 40 m²
Installation - 4 columns	Freestanding
Installation - 3 columns	Wall mounting
Anchoring	External*
Water drainage	Standard / Optional
Number of water outlets	2 / 3
Motorisation	1 / 2 motors

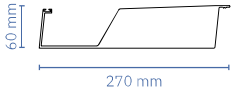
* Available at an additional cost

ADDITIONAL EQUIPMENT
from page 52

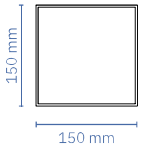
PROFILE 24

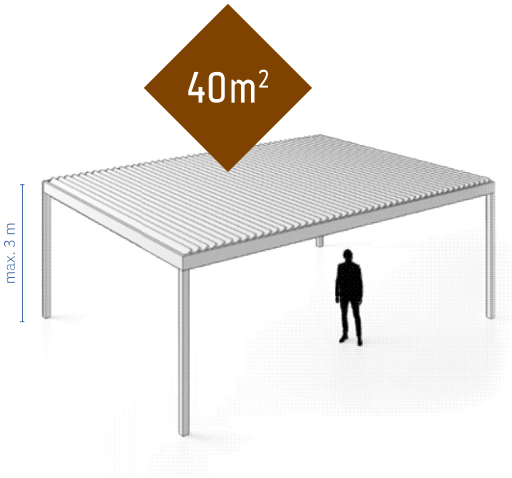


XL BLADE



COLUMN

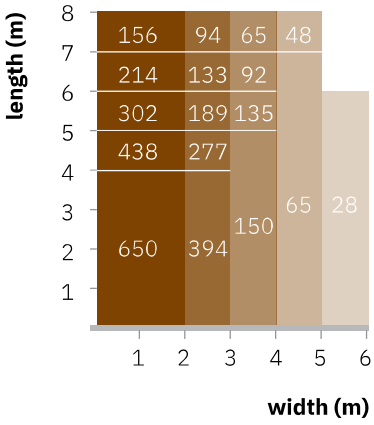




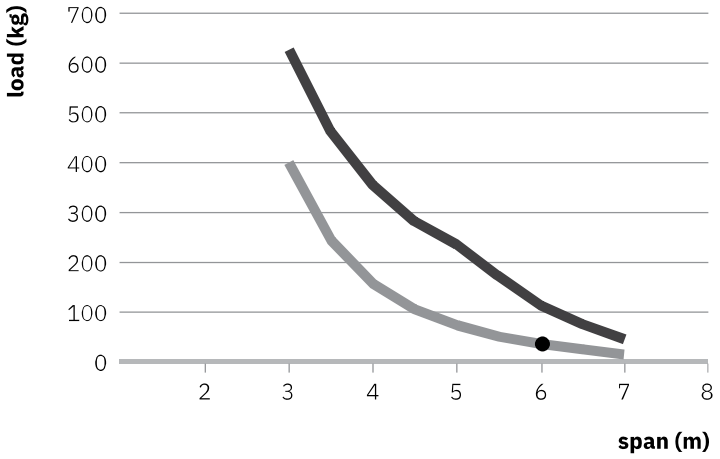
The maximum pergola dimensions are limited to those specified in the price list.

HIGH CORROSION RESISTANCE
The frame and all standard mechanical parts are made of aluminium and stainless steel.

TOTAL LOAD CAPACITY OF THE PERGOLA (kg/m²)



BLADE LOAD CAPACITY



Blade XL / Load Capacity

Blade XL / Functionality

● Recommended maximum width in most countries

Solutions for Non-Standard Lengths

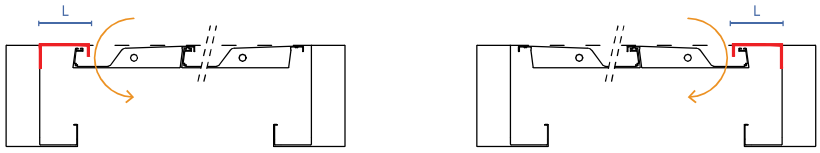
When the pergola length is non-standard, the blades do not fully cover the pergola frame opening. To address this, covers are used, varying depending on the blade opening direction.

END COVER Ω

The position of the cover depends on the blade opening direction selected in the order form.

Available at an additional cost. Covers must be installed by a technician and are not pre-drilled.

Max. L	100 mm
Min. L	40 mm

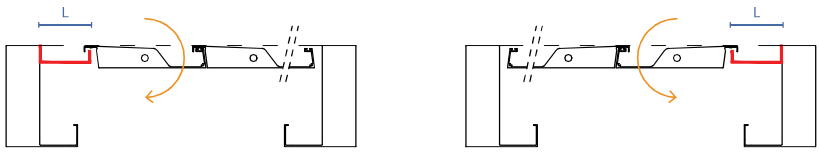


END COVER U

The gutter position depends on the blade opening direction selected in the order form.

Available at an additional cost. Covers must be installed by a technician and are not pre-drilled.

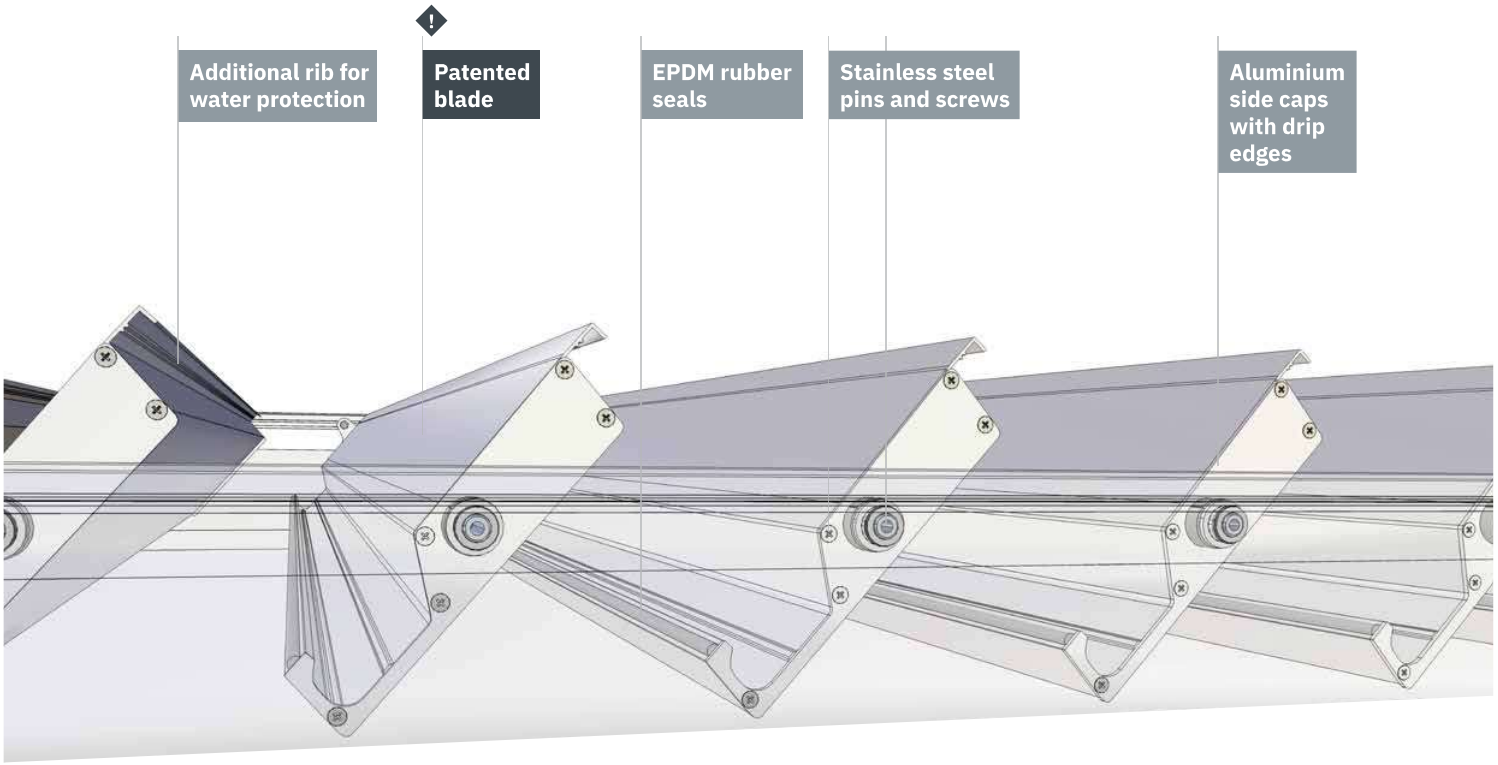
Max. L	100 mm
Min. L	40 mm



Patent

The specially designed blades, an integral part of the Soltec bioclimatic pergola, are made from extruded aluminium and are patented under Patent SI 24401 A.

This waterproof roofing blade is the core structural element. When assembled in a sequential composition, it forms a watertight covering for outdoor spaces, resistant to loads such as wind and snow. The blades rotate to open, regulating shading and sun exposure, ensuring an optimal outdoor living space in all seasons with long-lasting durability.



Technical Description of the Product System Soltec Bioclimatic Pergola SL

The Soltec Bioclimatic Pergola SL is a bioclimatic pergola composed of aluminium components, columns, beams, and rotating blades. The pergola is designed in accordance with the harmonised standard SIST EN 13561. In compliance with this standard, we provide a technical approval and CE marking. The declared characteristic under this standard is wind resistance up to class 3. The Declaration of Conformity is included in the User and Maintenance Manual.

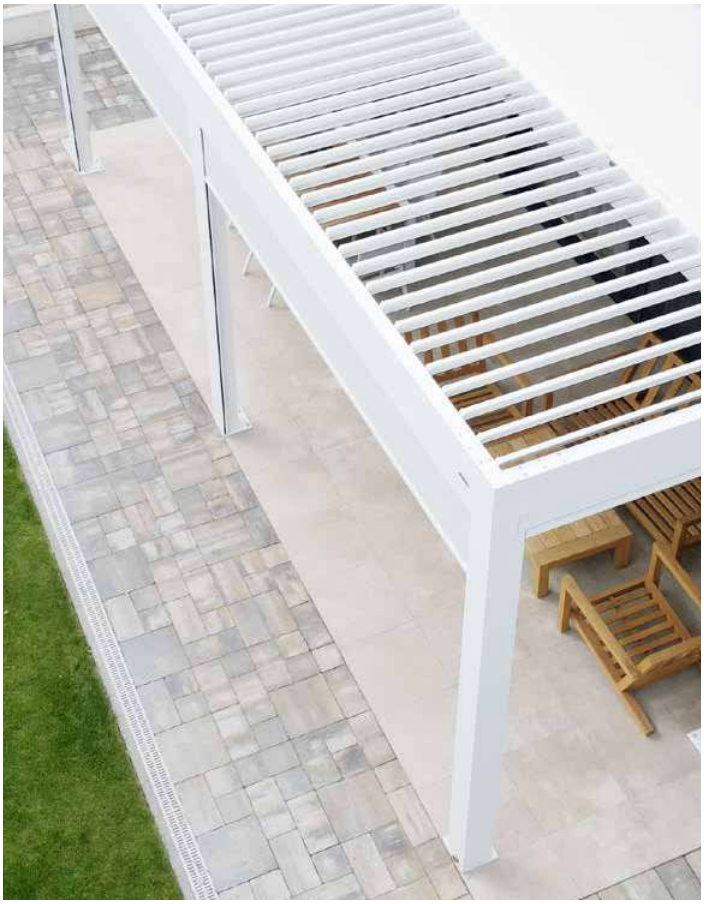
As a shading system, the bioclimatic pergola differs from traditionally built canopies with conventional roofs, which must comply with construction laws and regulations regarding load-bearing capacity based on location and specific requirements. A bioclimatic pergola is a shading system, meaning that in cases of significant loads (such as wind or snow), the blades must be opened. This requirement is stated in the Price List, Catalogue, and User and Maintenance Manual.

The load-bearing capacity with closed blades is detailed in prepared charts in the Catalogue, depending on the pergola's dimensions. These charts illustrate the total blade load capacity (deflection 1/200 of the span) based on additional loads and the selected blade length. Different pergola types (160/28, 170/28, 170/36, 240/36, 240/60) can be selected depending on the required load capacity.

The user is responsible for following the User and Maintenance Manual and avoiding loads exceeding the functional limit capacity. To ensure safe usage, Soltec provides the User and Maintenance Manual and offers electronic solutions with weather sensors that automatically open the blades in case of excessive snow load or strong winds.

The total blade load capacity, defined by a deflection limit of 1/200 of the span, is in compliance with the limit deformation recommended by Eurocode for roof load-bearing elements (SIST EN 1990). If deflection is not functionally critical, higher values can be agreed upon with the client. The calculated deflection due to self-weight, together with the allowable additional load from the charts, is 1/200 of the blade length.

With this condition met, the SL pergola is designed in accordance with Eurocode regulations, which otherwise apply to built-in roofs.

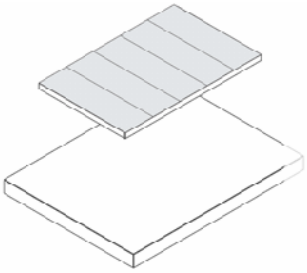


Canopies for Terraces and Entrances

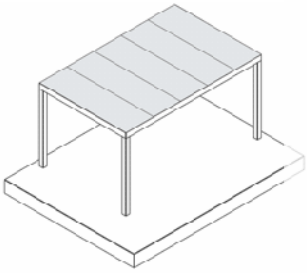
Modern canopies for terraces and entrances combine functionality, aesthetics, and adaptability. Various roofing infill options are available, including ISO panels, glass, and green roofs. The base structure of our canopies can be fully customised by selecting additional accessories, colours, and materials such as aluminium and wood. This allows you to create a unique solution that not only protects your entrance or terrace but also enhances the architectural style of your home or business space.

Technical Specifications

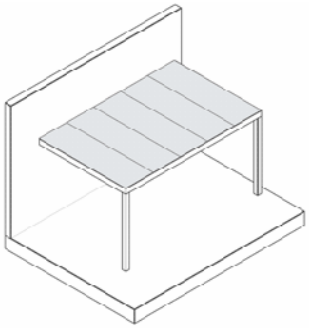
Configurations



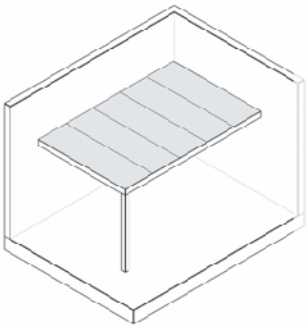
TYPE 0
Without columns



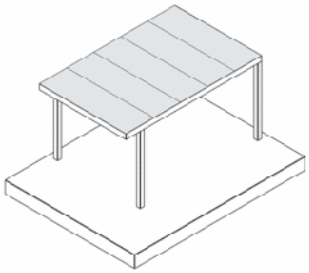
TYPE 1
Freestanding structure



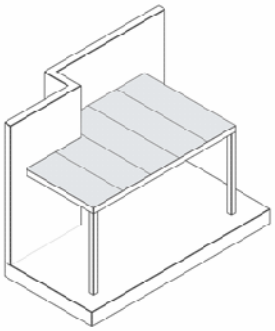
TYPE 2
Wall-mounted, panels perpendicular to the wall



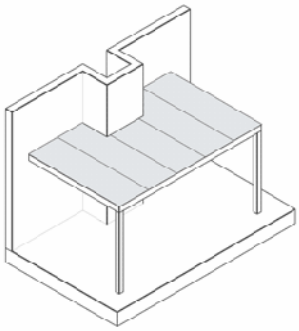
TYPE 3
Wall-mounted, panels perpendicular to the wall



TYPE 4
Freestanding structure, flexible column arrangement



TYPE 5
Wall-mounted, panels perpendicular to the wall



TYPE 6
Wall-mounted, panels perpendicular to the wall

Technical Specifications

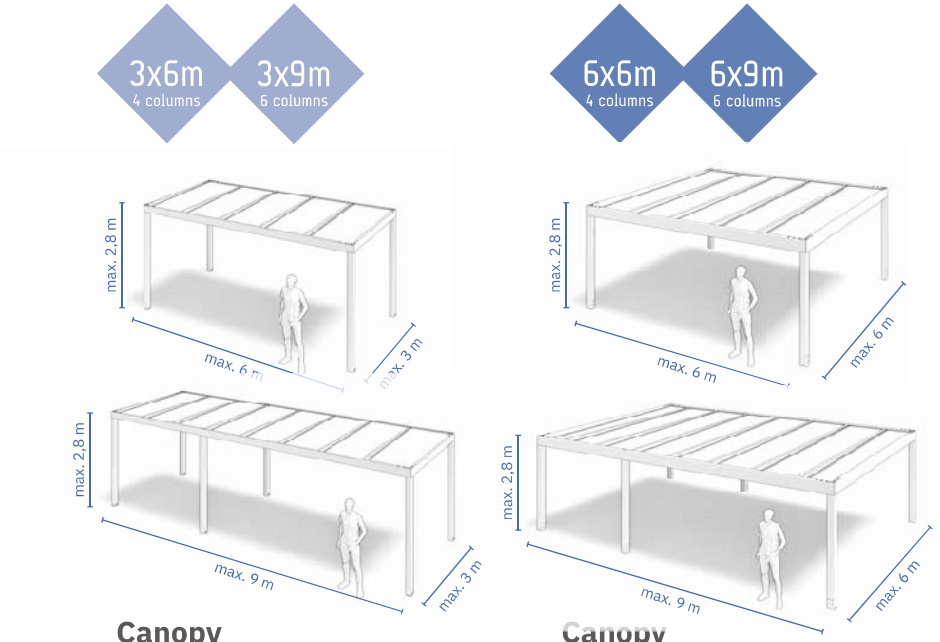
Colours

	Colour		Finish
FRAME **Standard Colours**	Anthracite Grey RAL 7016FS		Fine Texture
	Aluminium Grey RAL 9007FS		Fine Texture
	Aluminium White RAL 9006FS		Fine Texture
	Traffic White RAL 9016FS		Fine Texture
	Oyster White RAL 1013FS		Fine Texture
	Chocolate Brown RAL 8017FS		Fine Texture
	RAL DB703FS		Fine Texture
ROOF / CANOPY / WALL PANELS Standard for ISO Panel 3 cm (Duotone)	Grey White RAL 9002FS	Grey White RAL 9002FS	Mat or Smooth
	Aluminium White RAL 9006FS	Grey White RAL 9002FS	Mat or Smooth
	Anthracite Grey RAL 7016FS	Grey White RAL 9002FS	Mat or Smooth
	Grey White RAL 9002FS	Aluminium White RAL 9006FS	Mat or Smooth
	Grey White RAL 9002FS	Anthracite Grey RAL 7016FS	Mat or Smooth

Technical Specifications

F Dimensions and Features of Canopies

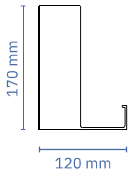
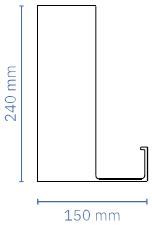
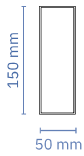
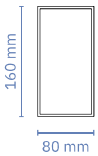
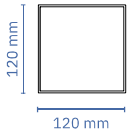
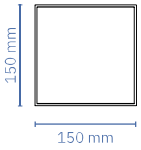
A canopy with an ISO panel roof provides excellent thermal insulation and protection against the elements. With its durable and modern design, it is suitable for entrances, terraces, or parking areas. It can also be combined with a bioclimatic pergola, ensuring a unified aesthetic and greater flexibility in outdoor space design.



Model	Canopy F170 PROFILE 17	Canopy F240 PROFILE 24
Profiles	170/120	240/150
Columns	120/120	150/150
Maximum dimension - 4 columns	3 x 6 m	6 x 6 m
Maximum dimension - 6 columns	3 x 9 m	6 x 9 m
Anchoring	Internal / External	Internal / External
Water drainage	Standard / Optional	Standard / Optional
Number of water outlets	2 / 3	2 / 3
Max. total load capacity	140 kg/m²	140 kg/m²

Technical Specifications

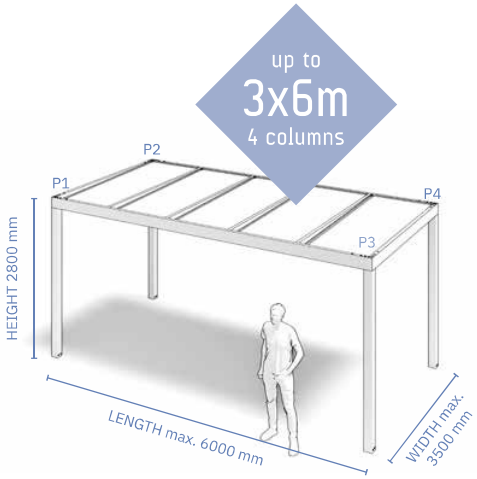
F Overview of Load-Bearing Components

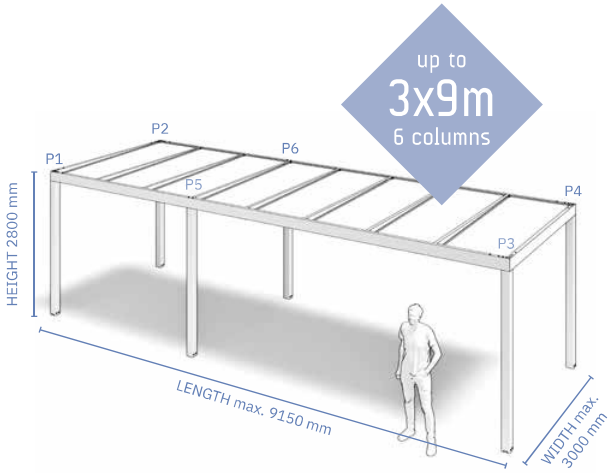
Model	Canopy F170	Canopy F240
Profiles	**PROFILE 17** 	**PROFILE 24** 
Secondary Profiles	**SECONDARY PROFILE R150** 	**SECONDARY PROFILE R160** 
Columns	**COLUMN** 	**COLUMN** 

All standard load-bearing components are made of aluminium and stainless steel.

Technical Specifications

F | Soltec **Canopy F170**





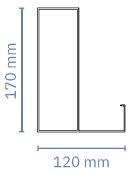
Roofing	ISO panel 3 cm
Frame	170/120
Secondary profile	150/50
Column	120/120
Width	3000 mm
Length on 4 columns	6000 mm
Length on 6 columns	9150 mm
Anchoring (option: painted or stainless steel)	External 150 - galvanised
Number of water outlets	2 / 3
Max. total load capacity	140* kg / m²

ADDITIONAL EQUIPMENT
from page 52

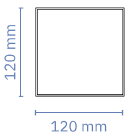
* The car canopy is designed in accordance with Eurocode standards. It is assembled according to EN 1090. The prescribed maximum loads are calculated for a maximum combined load of 140 kg/m². These loads are already multiplied by safety factors and include wind and snow loads.

INOX STAINLESS STEEL

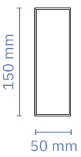
PROFILE 17



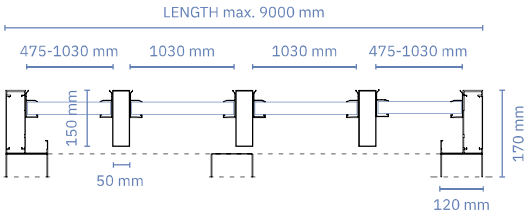
COLUMN

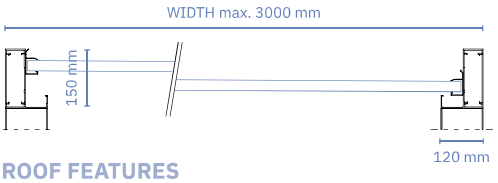


SECONDARY PROFILE



ROOF





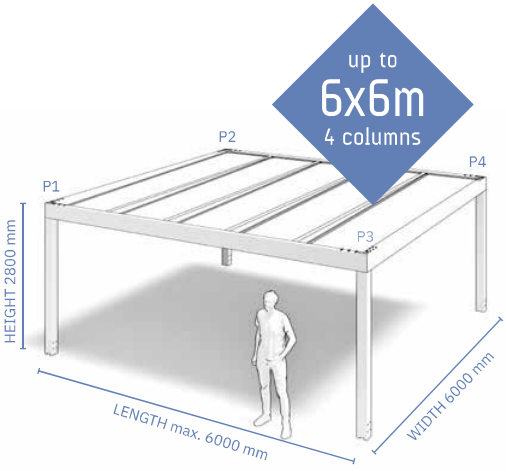
ROOF FEATURES
In model F, the canopy frame is horizontal. The infill, ISO panel, is installed within the frame at a 2% slope.

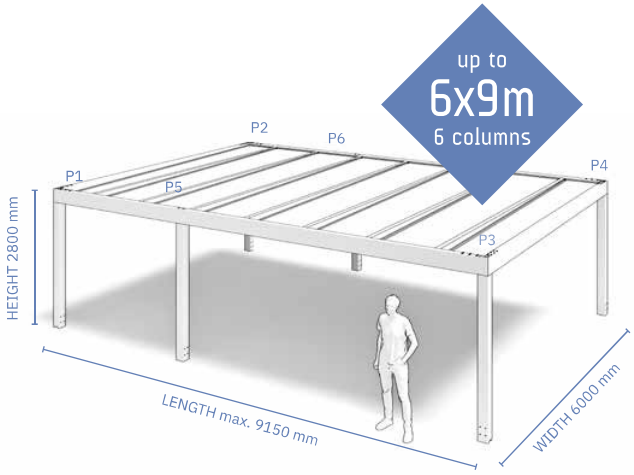
WATER DRAINAGE
Water outlets are located on columns P1, P5, P3.

HIGH CORROSION RESISTANCE
All frame components are made exclusively of aluminium and stainless steel.

Technical Specifications

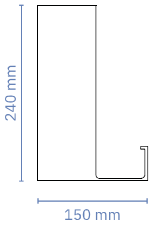
F | Soltec **Canopy F240**



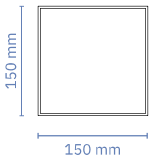


Roofing	ISO panel 3 cm
Frame	240/150
Secondary profile	160/80
Column	150/150
Width	6000 mm
Max. length on 4 columns	6000 mm
Max. length on 6 columns	9150 mm
Anchoring (option: painted or stainless steel)	External 150 - galvanised
Number of water outlets	2 / 3
Max. total load capacity	140* kg / m²

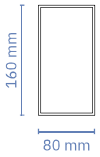
PROFILE 24



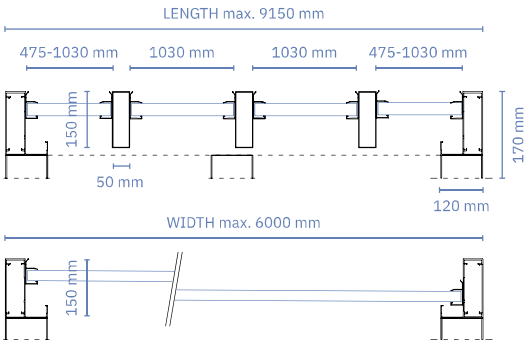
COLUMN



SECONDARY PROFILE



ROOF



ADDITIONAL EQUIPMENT
from page 52

* The car canopy is designed in accordance with Eurocode standards. It is assembled according to EN 1090. The prescribed maximum loads are calculated for a maximum combined load of 140 kg/m². These loads are already multiplied by safety factors and include wind and snow loads.

INOX STAINLESS STEEL

ROOF FEATURES
In model F, the canopy frame is horizontal. The infill, ISO panel, is installed within the frame at a 2% slope.

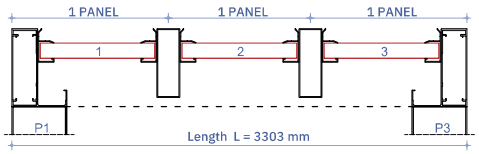
WATER DRAINAGE
Water outlets are located on columns P1, P5, P3.

HIGH CORROSION RESISTANCE
All frame components are made exclusively of aluminium and stainless steel.

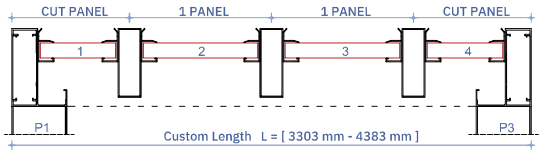
Model F170

F Roof Configurations for 4 Columns

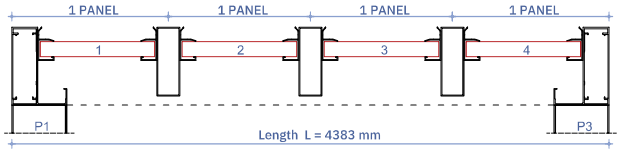
3 PANELS / standard



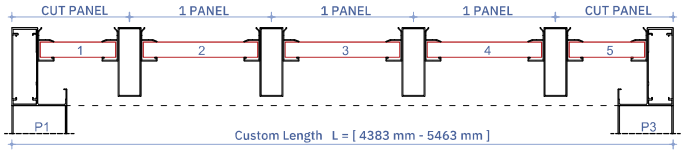
4 PANELS / custom



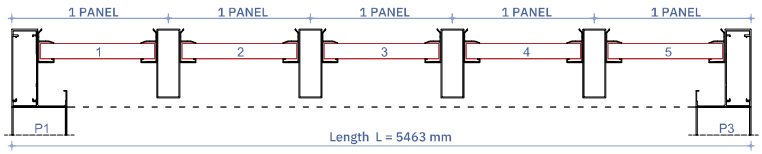
4 PANELS / standard



5 PANELS / custom



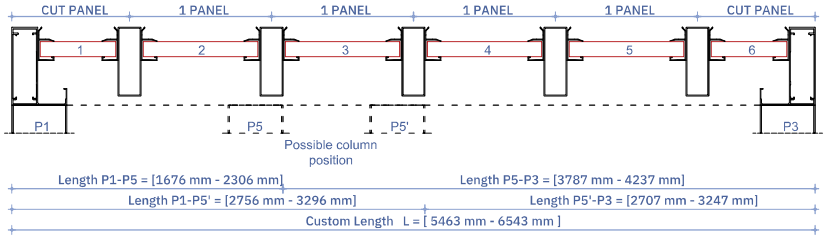
5 PANELS / standard



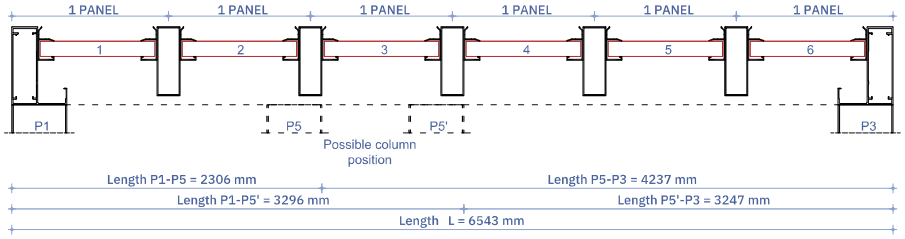
Model F170

F Roof Configurations for 6 Columns

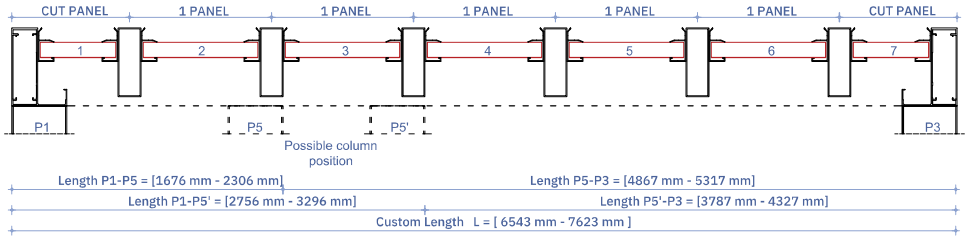
6 PANELS / custom



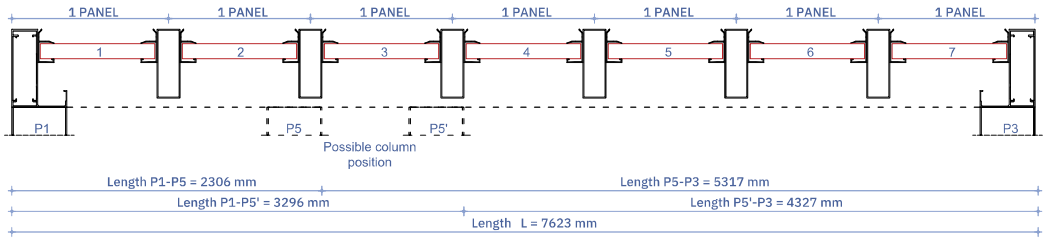
6 PANELS / standard



7 PANELS / custom



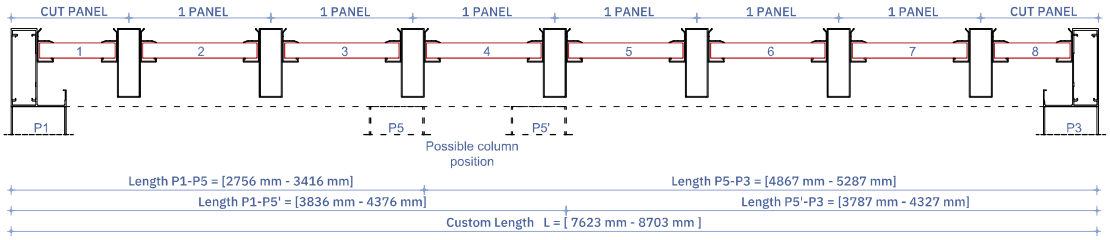
7 PANELS / standard



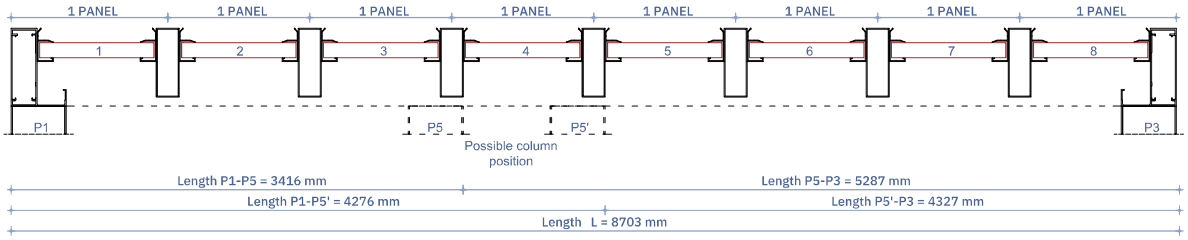
Model F170

F Roof Configurations for 6 Columns

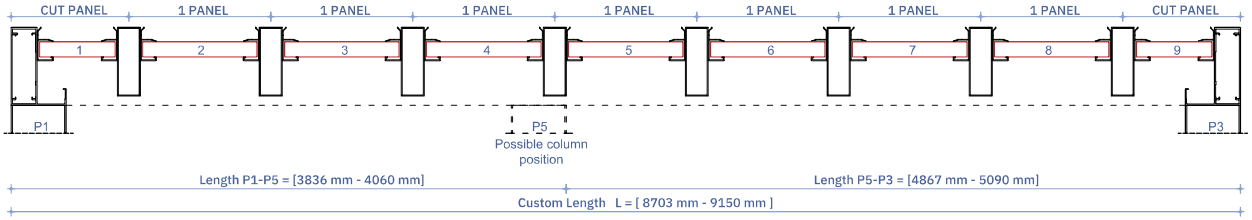
8 PANELS / custom



8 PANELS / standard



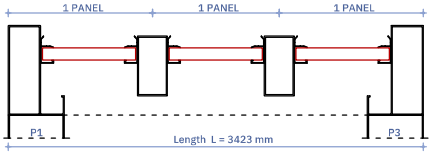
9 PANELS / custom



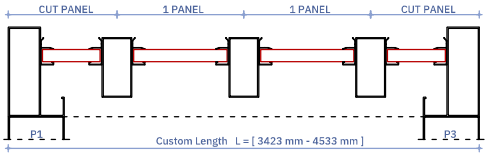
Model F240

F Roof Configurations for 4 Columns

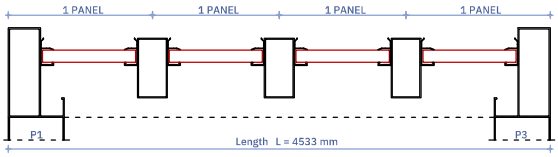
3 PANELS / standard



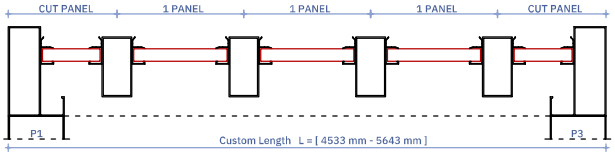
4 PANELS / custom



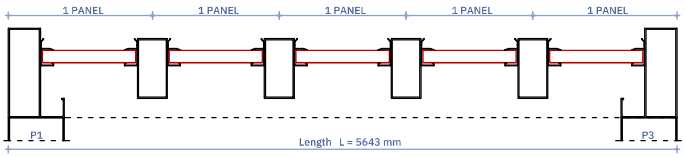
4 PANELS / standard



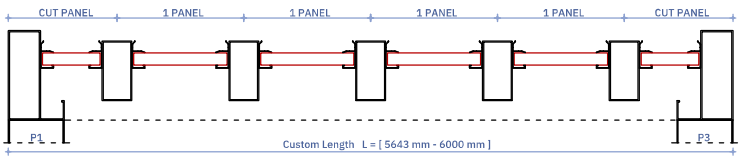
5 PANELS / custom



5 PANELS / standard



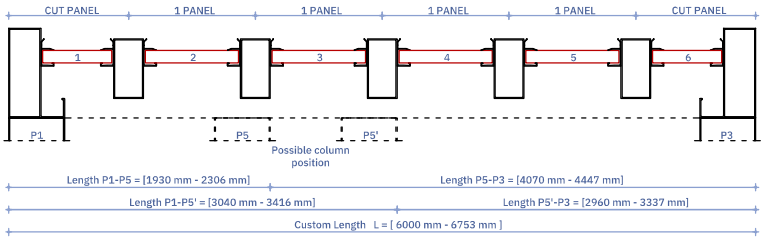
6 PANELS / custom



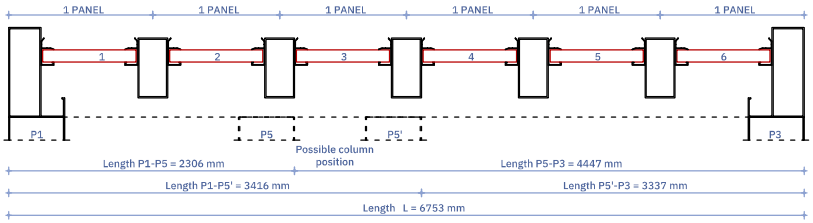
Model F240

F Roof Configurations for 6 Columns

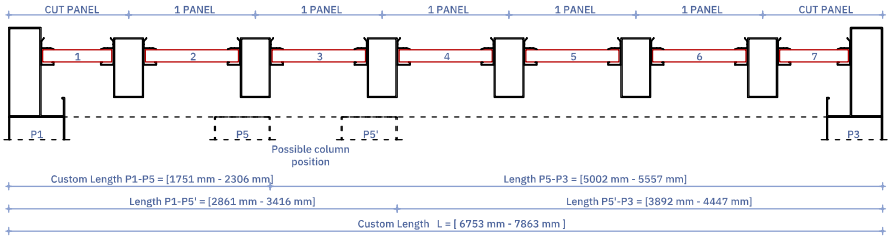
6 PANELS / custom



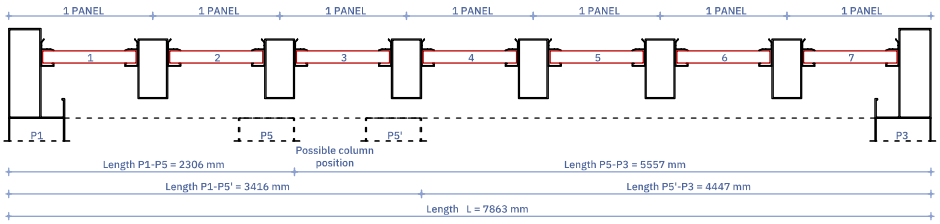
6 PANELS / standard



7 PANELS / custom



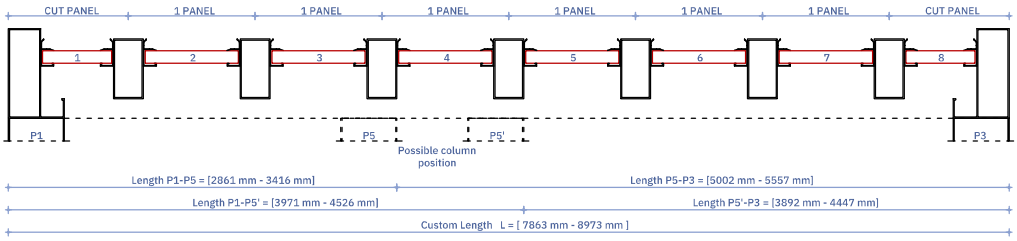
7 PANELS / standard



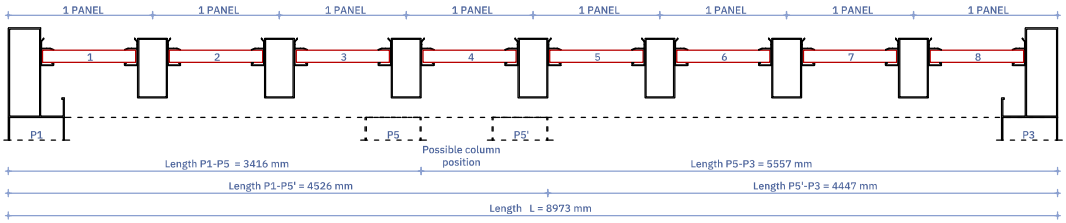
Model F240

F | Roof Configurations for 6 Columns

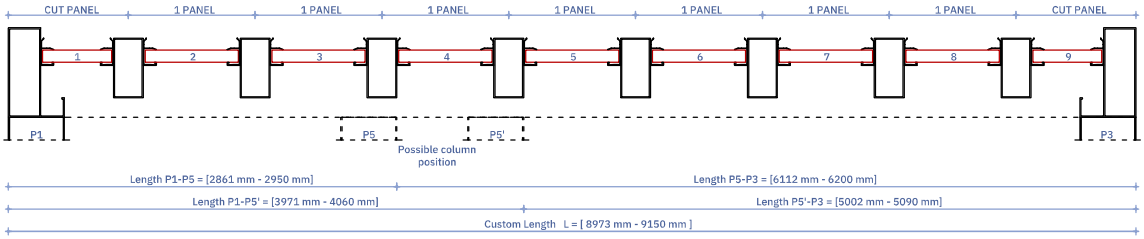
8 PANELS / custom



8 PANELS / standard



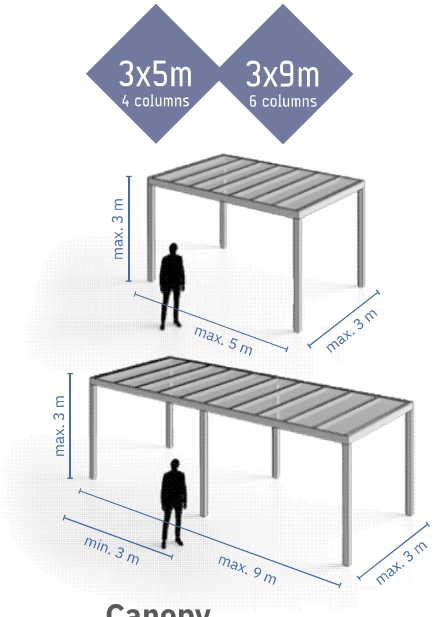
9 PANELS / custom

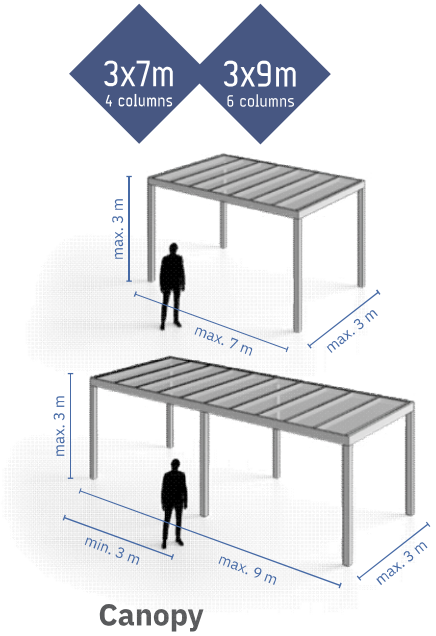


Technical Specifications

G Dimensions and Features of Canopies

The canopy can be customised to suit your needs and complement the aesthetics of the building with different roofing options, such as laminated toughened glass or a green roof. A glass roof allows natural light to pass through, creating a sense of spaciousness and maintaining an open feel, while a green roof enhances thermal insulation, regulates temperature, and contributes to natural cooling.

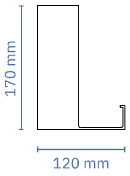
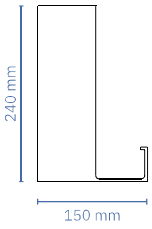
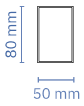
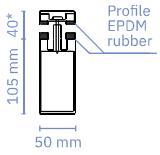
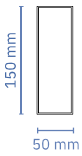
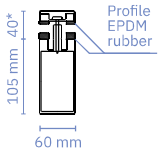
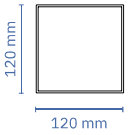
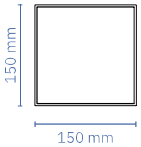




Model	Canopy G170 PROFILE 17	Canopy G240 PROFILE 24
Profiles	170/120	240/150
Columns	120/120	150/150
Maximum dimension - 4 columns	3 x 5 m	3 x 7 m
Maximum dimension - 6 columns	3 x 9 m	3 x 9 m
Anchoring	Internal / External	Internal / External
Water drainage	Standard / Optional	Standard / Optional
Number of water outlets	2 / 3	2 / 3
Max. total load capacity	240 kg/m²	240 kg/m²

Technical Specifications

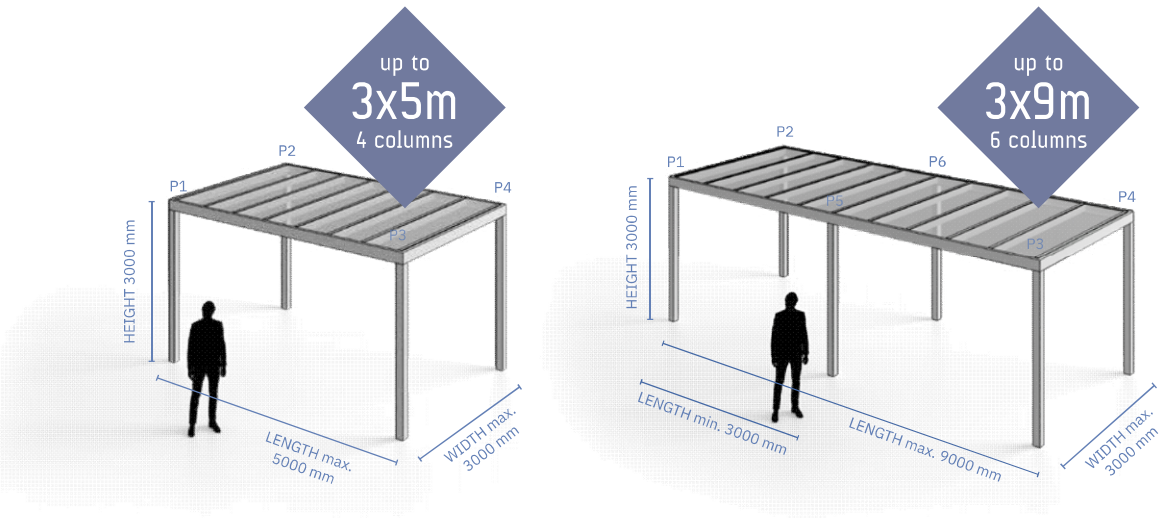
G | Overview of Load-Bearing Components

Model	Canopy G170	Canopy G240
Profiles	**PROFILE 17** 	**PROFILE 24** 
Secondary Profiles	**SECONDARY PROFILE R80**  **LOAD-BEARING PROFILE FOR GLASS K75** 	**SECONDARY PROFILE R150**  **LOAD-BEARING PROFILE FOR GLASS K75** 
Columns	**COLUMN** 	**COLUMN** 

Aluminium profiles, blades, and columns. All standard components are made of stainless steel.

Technical Specifications

G | Soltec **Canopy G170**



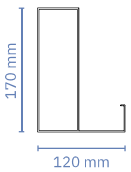
Roofing	ISO panel, 3 cm
Frame	170/120
Secondary profile	150/50
Column	120/120
Width	3000 mm
Length on 4 columns	5000 mm
Length on 6 columns	9000 mm
Anchoring (option: painted or stainless steel)	External 150 - galvanised
Number of water outlets	2 / 3
Max. total load capacity	240* kg / m²

ADDITIONAL EQUIPMENT
from page 52

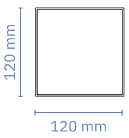
* The canopy is designed in accordance with Eurocode standards. It is assembled according to EN 1090. The prescribed maximum loads are calculated for a maximum combined load of 240 kg/m². Column positions are shown for a load of 140 kg/m². For a load of 240 kg/m², the maximum spacing between columns is 3 m. These loads are already multiplied by safety factors and include wind and snow loads.

INOX STAINLESS STEEL

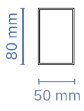
PROFILE 17



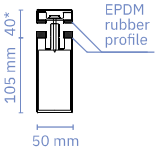
COLUMN



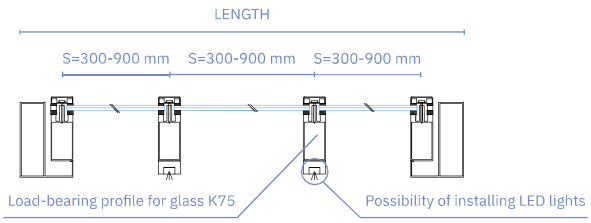
SECONDARY PROFILE



LOAD-BEARING PROFILE FOR GLASS K75



ROOF



60 kg/m² max. total load capacity
Secondary load-bearing profile every 900 mm

140 kg/m² max. total load capacity
Secondary load-bearing profile every 600 mm

240 kg/m² max. total load capacity
Secondary load-bearing profile every 300 mm, columns max. 3 m apart

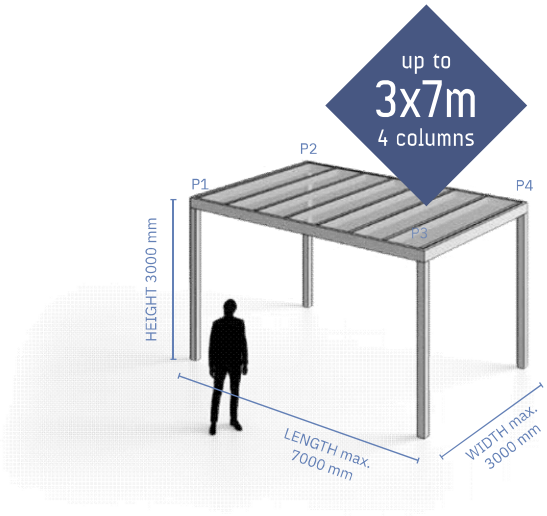
ROOF FEATURES
In model G, the roof appears visually horizontal with a minimal slope.

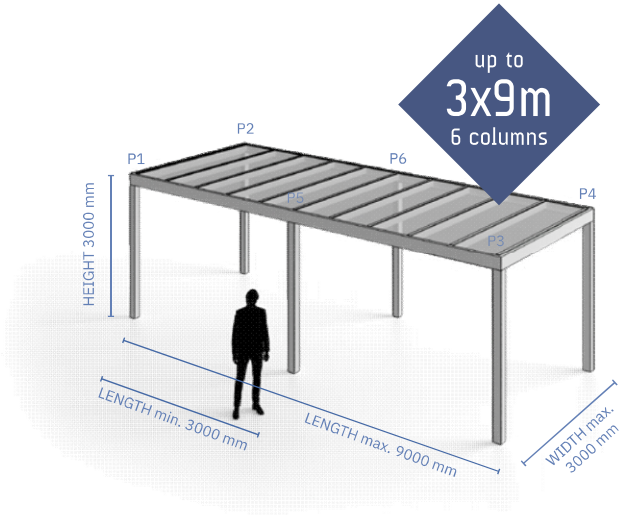
WATER DRAINAGE
Water outlets are located on columns P1, P5, P3.

HIGH CORROSION RESISTANCE
All frame components are made exclusively of aluminium and stainless steel.

Technical Specifications

G | Soltec Canopy G240





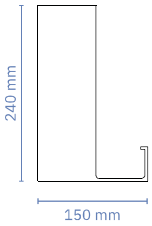
Roofing	ISO panel, 3 cm
Frame	240/150
Secondary profile	160/80
Column	150/150
Max. width	4 m (pri dolžini 5 m), 3 m (pri dolžini 6 m)
Max. length on 4 columns	7000 mm
Max. length on 6 columns	9000 mm
Anchoring (option: painted or stainless steel)	External 150 - galvanised
Number of water outlets	2 / 3
Max. total load capacity	240* kg / m²

ADDITIONAL EQUIPMENT
from page 52

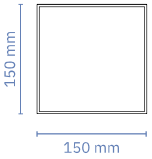
* The canopy is designed in accordance with Eurocode standards. It is assembled according to EN 1090. The prescribed maximum loads are calculated for a maximum combined load of 240 kg/m². Column positions are shown for a load of 140 kg/m². For a load of 240 kg/m², the maximum spacing between columns is 3 m. These loads are already multiplied by safety factors and include wind and snow loads.

INOX STAINLESS STEEL

PROFILE 24

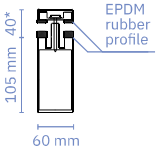


COLUMN

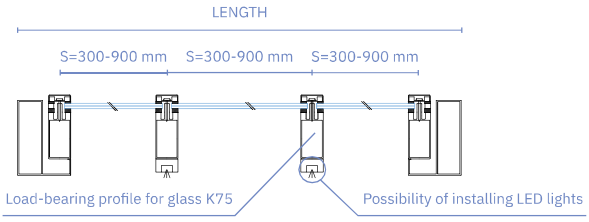


SECONDARY PROFILE

LOAD-BEARING PROFILE FOR GLASS K75



ROOF



60 kg/m² max. total load capacity
Secondary load-bearing profile every 900 mm

140 kg/m² max. total load capacity
Secondary load-bearing profile every 600 mm

240 kg/m² max. total load capacity
Secondary load-bearing profile every 300 mm, columns max. 3 m apart

ROOF FEATURES
In model G, the roof appears visually horizontal with a minimal slope.

WATER DRAINAGE
Water outlets are located on columns P2, P6, P4.

HIGH CORROSION RESISTANCE
All frame components are made exclusively of aluminium and stainless steel.

Additional Options

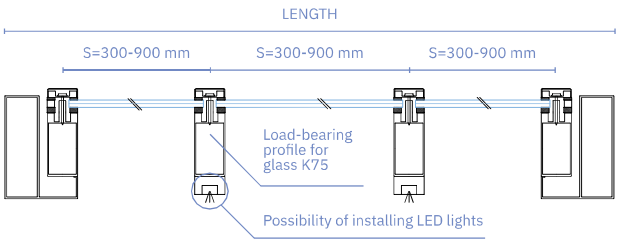
G | Roof Types

MODEL 1

Glass Roof

Secondary profile K75

Laminated, toughened glass 66.2



60 kg/m² max. total load capacity
Secondary load-bearing profile every 900 mm

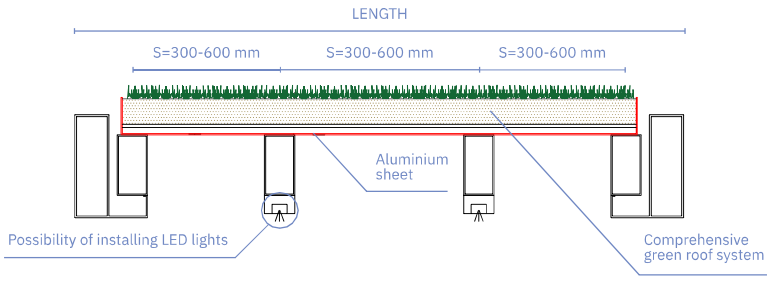
140 kg/m² max. total load capacity
Secondary load-bearing profile every 600 mm

240 kg/m² max. total load capacity
Secondary load-bearing profile every 300 mm, columns max. 3 m apart

MODEL 2

Green Roof

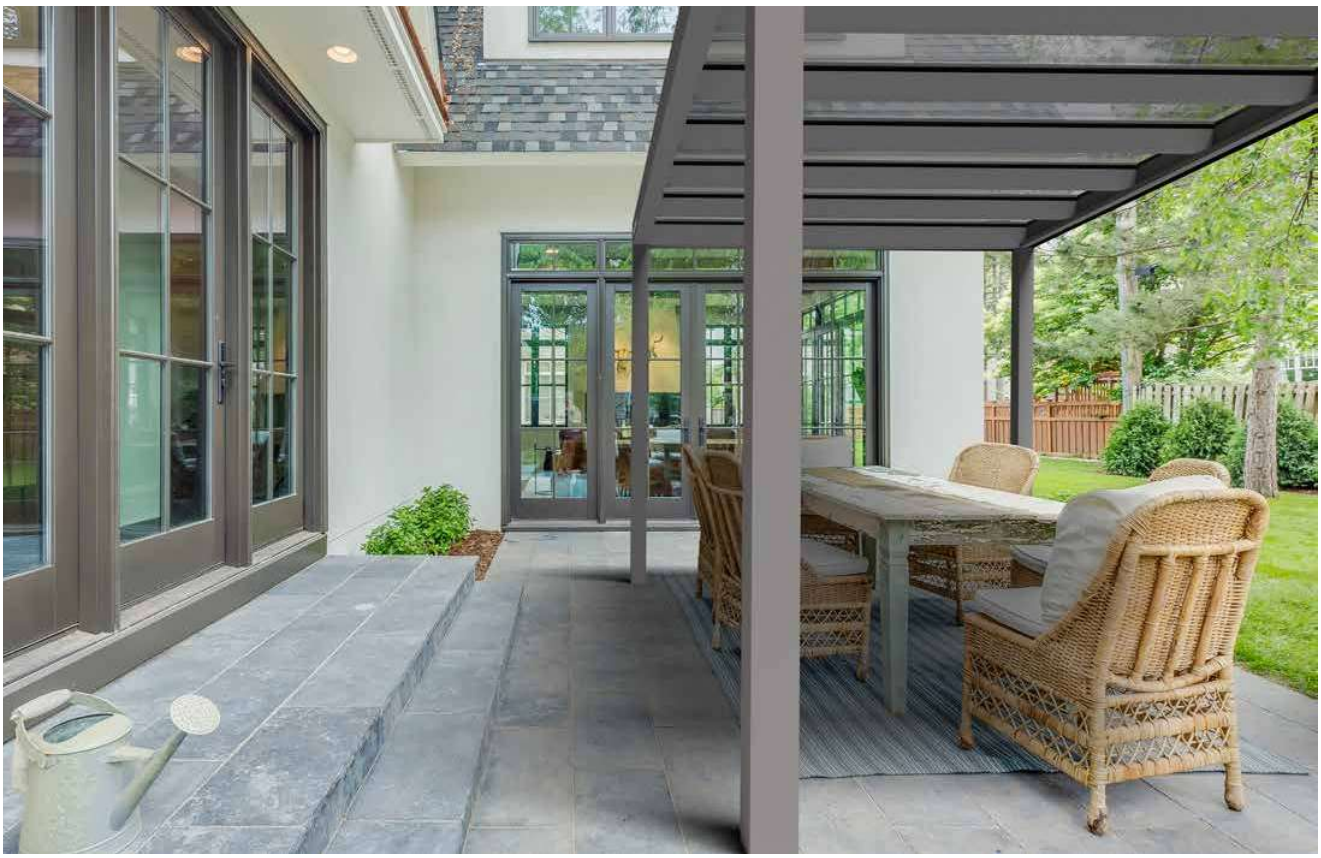
Secondary profile R100



60 kg/m² max. total load capacity
Secondary load-bearing profile every 900 mm

120 kg/m² max. total load capacity
Secondary load-bearing profile every 600 mm

200 kg/m² max. total load capacity
Secondary load-bearing profile every 300 mm, columns max. 3 m apart



Combined Canopies

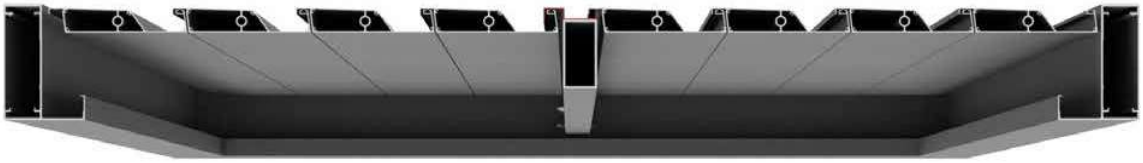
A custom canopy is an innovative solution that allows complete customisation of outdoor spaces. With its modular design, it integrates various roofing materials and styles. It enables the combination of a pergola, glass canopy, aluminium canopy, and green canopy with vegetation. Regardless of your preferences and needs, the custom canopy offers flexible dimensions and an aesthetically pleasing, functional solution that enhances your outdoor space, creating the perfect environment for relaxation, social gatherings, or working outdoors.

Types of Combined Canopy and Pergola Roof Combinations

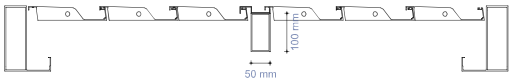
A custom canopy is an innovative solution that allows complete customisation of outdoor spaces. With its modular design, it integrates various roofing materials and styles – from an elegant pergola and a modern glass canopy to a robust aluminium canopy and an eco-friendly green canopy with vegetation.

ROOF TYPE A

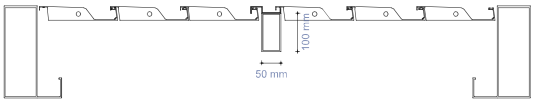
PERGOLA + PERGOLA



170

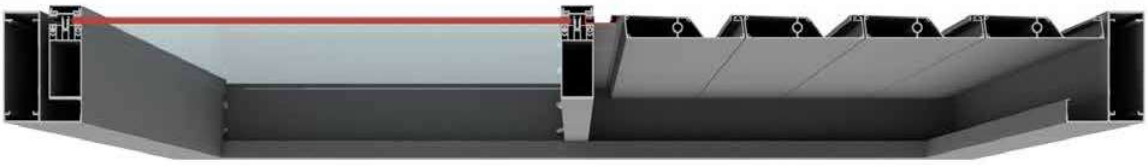


240

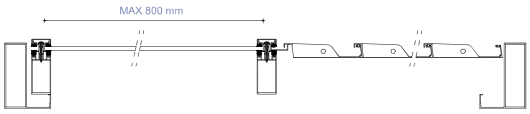


ROOF TYPE B

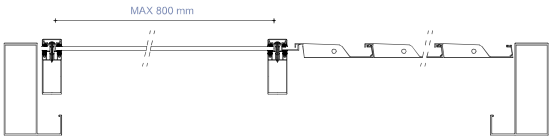
GLASS + PERGOLA



170

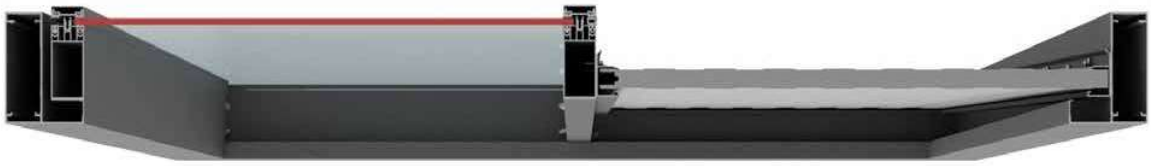


240

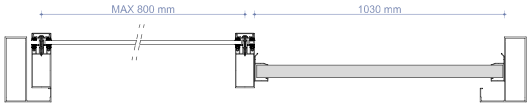


ROOF TYPE C

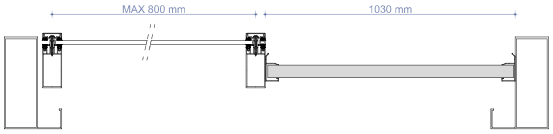
GLASS + ISO PANEL



170

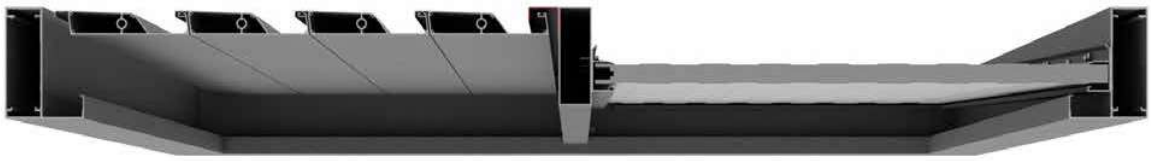


240

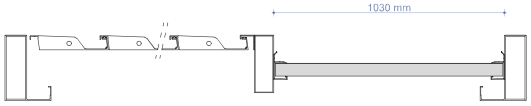


ROOF TYPE D

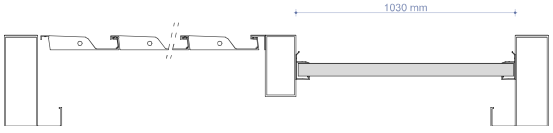
PERGOLA + ISO PANEL



170



240



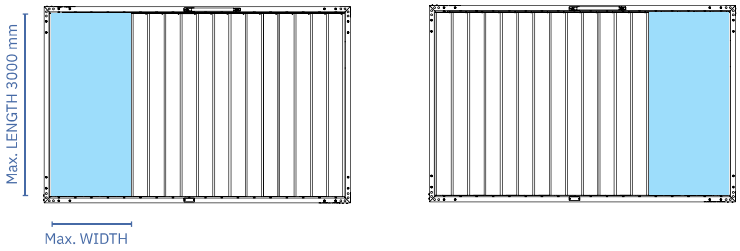
Fixed Glass Roof

In the combination of a pergola and a glass canopy, high-quality laminated tempered glass with a thickness of 12 mm or 16 mm is used. This addition allows more natural light into indoor living spaces.

The glass roof is installed using dedicated aluminium profiles with rubber seals and can be combined with the SL170 or SL240 pergola.

TRANSVERSE INSTALLATION

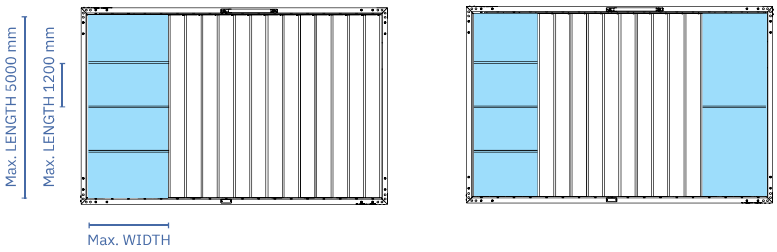
Glass supports are positioned transversely, parallel to the blades.



Max. Glass WIDTH:
800 mm
Laminated and tempered glass 66.2, 12 mm thick.

LONGITUDINAL INSTALLATION

Glass supports are positioned longitudinally, perpendicular to the blades and on a secondary support beam.



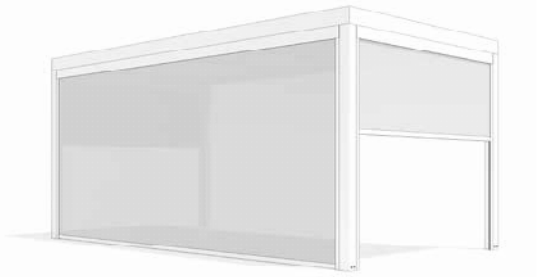
Max. Glass WIDTH:
1200 mm
Laminated and tempered glass 88.2, 16 mm thick.

Additional Equipment

Additional equipment allows for complete customisation to suit your needs. It helps create a comfortable ambiance, provides protection from wind, sun, and prying eyes, and extends the use of your outdoor space throughout the year. Discover a wide range of accessories that transform your canopy into a fully functional and aesthetically refined part of your home.

Overview of Additional Equipment

ZIP ROLLER BLINDS / K130 → p. 56



Protection for rectangular surfaces against sun, wind, and prying eyes.

SUN BREAKERS / E300 → p. 68

Designed for dynamic closure of side surfaces.

SLIDING PANELS / H50 LES → p. 58

Panels are mounted on rollers and slide within an upper guide.

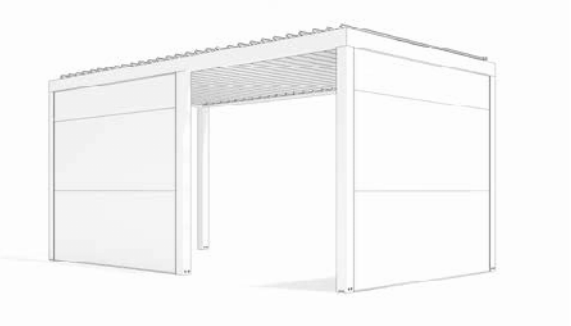
SLIDING PANELS / H50 ALU → p. 58

Panels are mounted on rollers and slide within an upper guide.

FIXED WALLS / FW25 → p. 62

Fixed walls are available in partial or full-length configurations along the sides of the canopy or pergola.

FIXED WALLS / FI30 ISO → p. 62



Fixed walls are available in partial or full-length configurations along the sides of the canopy or pergola.

GLASS SLIDING PANELS / G1 → p. 64

Glass sliding panels made from 10 mm tempered glass provide protection from wind and rain.

GLASS FOLDING PANELS / G2 → p. 66

Folding panels allow individual panels to open and stack.

VERTICAL COLUMNS / R120 → p. 72

Individual vertical columns of the pergola can be replaced with a group of smaller vertical columns.

DECORATIVE CEILING → p. 74

Wooden slats add a natural and warm look to the canopy, while aluminium slats provide a modern and minimalist aesthetic.

FENCE / TYPE 1 → p. 62

Aluminium fence made of horizontal and vertical welded profiles, mounted between the columns.

ACCESSORIES → p. 76

Heaters
p. 78

Sensors
p. 78

LED lights
p. 79

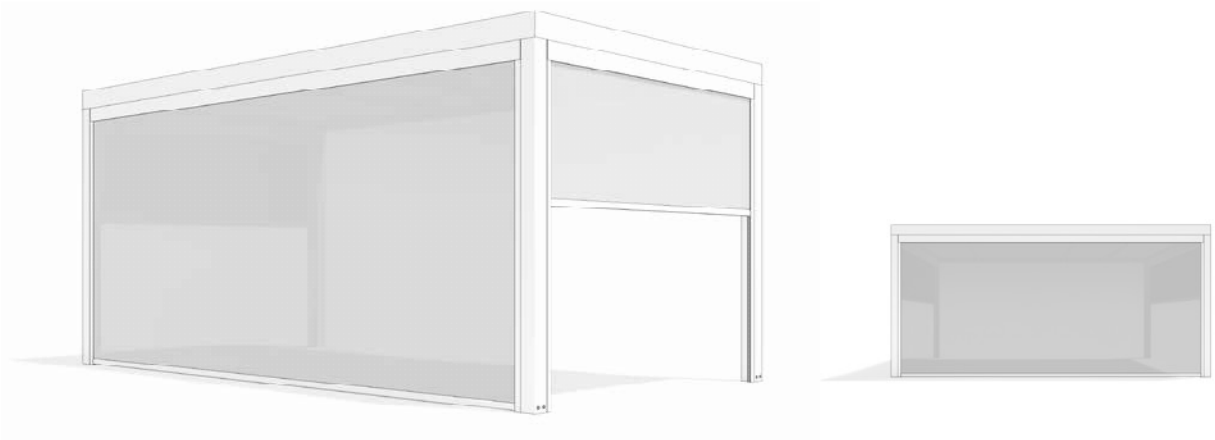
Sockets
p. 79

Controls
p. 79

Locks
p. 67, for glass accessories

Additional Equipment

ZIP Roller blinds K130



ZIP roller blinds provide effective protection for rectangular surfaces against sun, wind, and prying eyes.

They are made of aluminium profiles and feature an upper cassette (120 x 130 mm), into which the fabric rolls up. The screen fabric is composed of fibreglass coated with PVC, offering up to five times less heat accumulation, glare protection, light regulation, transparency for outward views (OF=3%), and enhanced privacy, especially during the day. The side ZIP guides, which include a special plastic profile and welded zipper, ensure the fabric glides smoothly along the track without gaps at the edges. The weighted profile keeps the fabric well-tensioned, even in light wind conditions.

Max. height H	2800 mm
Max. length L	6500 mm

OPERATION:

The roller is motorised and controlled via remote control. Upon request, a sensor can be added to automatically retract the roller when wind speeds exceed 40 km/h.

FABRIC COLOURS

108101
grey-white

108108
grey

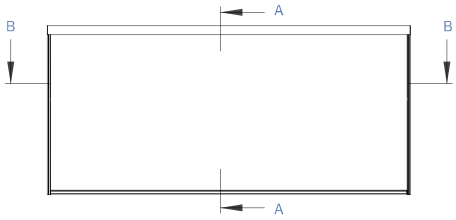
108118
grey-black

116101
linen-white

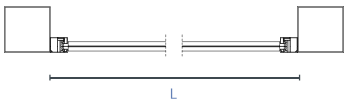
117101
pearl-white

117117
pearl

FRONT VIEW

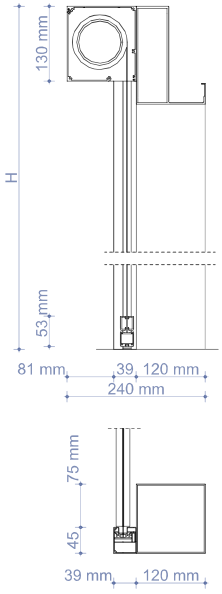


Cross-section B-B



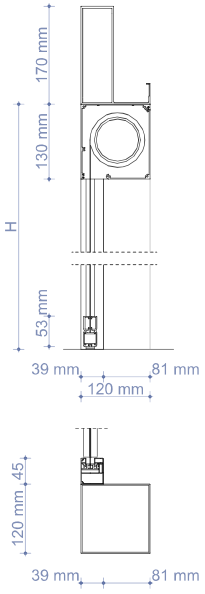
EXTERNAL INSTALLATION

Cross-section A-A



INTERNAL INSTALLATION

Cross-section A-A



Additional Equipment

Sliding Panels H50

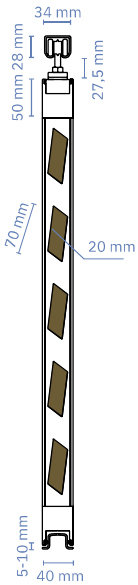
Sliding panels are made of an aluminium H50 frame and are mounted on rollers that glide along the upper guide rail.

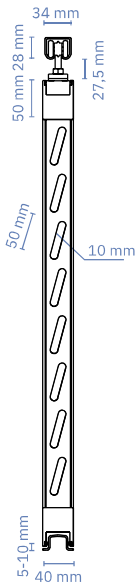
They are available as fixed or sliding walls, allowing adaptation to the space requirements. Sliding panels have a built-in stop at the end of the guide rail unless fixed at a specific location. By sliding along the lower guide rail, they provide stable and long-lasting lateral protection for the space.

All aluminium components – frame and guides – are powder-coated in the desired RAL colour.

Max. height H	3000 mm
Max. length L	1400 mm

WOOD / TYPE H50 L





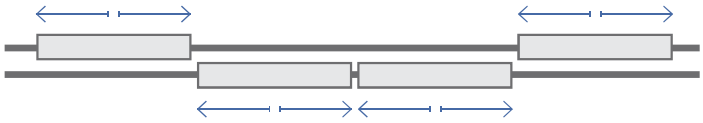
The infill of the sliding panels consists of siberian larch rhomboid slats, measuring 20 x 70 mm with a minimum spacing of 20 mm. the wooden slats create a warm and inviting aesthetic, giving the panels a natural appearance.

TYPE / ALU H50 A

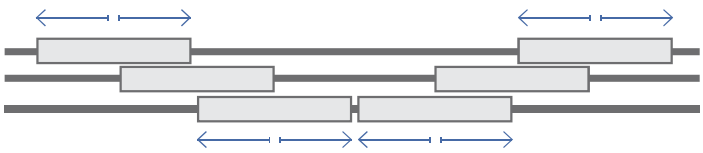
The infill of the sliding panels consists of aluminium slats, measuring 10 x 50 mm with a minimum spacing of 20 mm. the aluminium slats are durable, weather-resistant, and require no special maintenance.

SYSTEM 1 GUIDE

SYSTEM 2 GUIDES

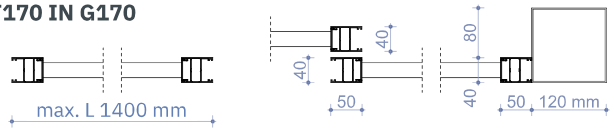


SYSTEM 3 GUIDES

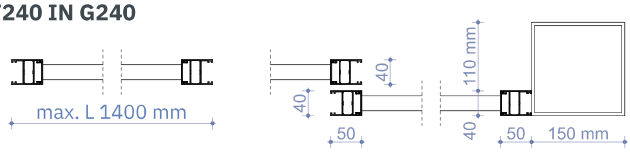


CROSS-SECTION H50 L

F170 IN G170



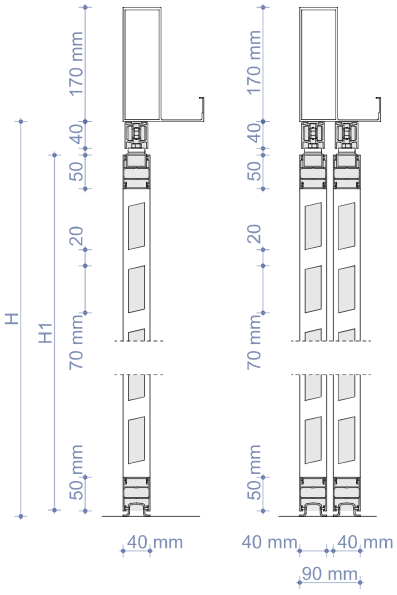
F240 IN G240



CROSS-SECTION H50 L & A

SYSTEM 1 GUIDE

SYSTEM 2 GUIDES

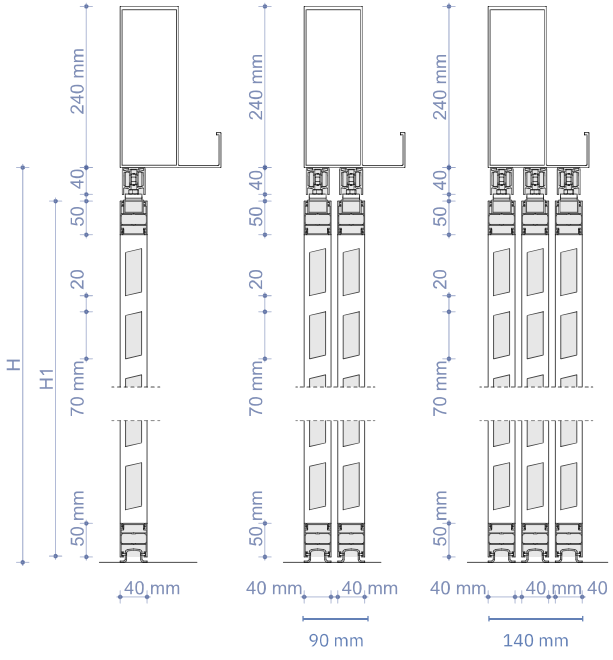


CROSS-SECTION H50 L & A

SYSTEM 1 GUIDE

SYSTEM 2 GUIDES

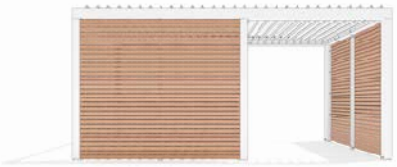
SYSTEM 3 GUIDES

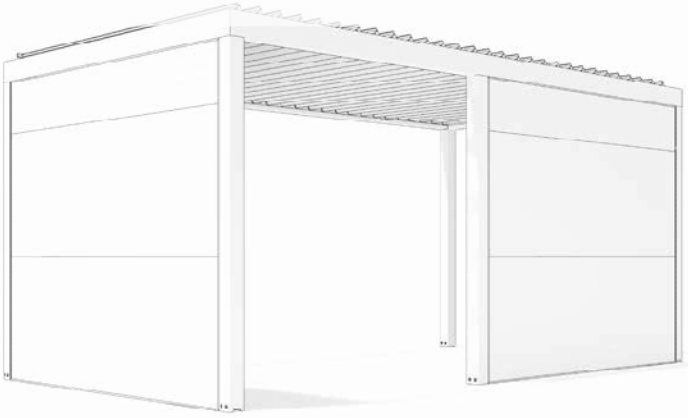


Additional Equipment

Fixed Walls
FW25 & FI30

WOOD / TYPE FW25





ISO PANEL / TYPE FI30

Fixed walls are available in partial or full-length configurations along the sides of the canopy or pergola. they are attached to secondary columns, which are fixed to the load-bearing frame and anchored to the ground.

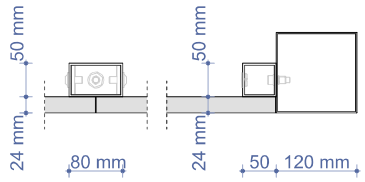
They can be customised to fit the space requirements and are available with iso panels or siberian larch slats. All load-bearing structures are made of aluminium and are powder-coated in the desired ral colour. the larch slats are provided in a natural finish. iso panels are made of painted and galvanised sheet metal with 3 cm insulation and are available in standard Soltec colours.

FW25 max. length (siberian larch)	4000* mm
FI30 max. length (ISO panel)	6000* mm

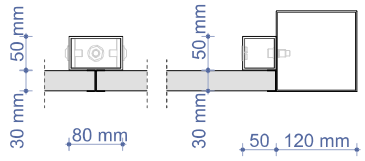
* seamless design

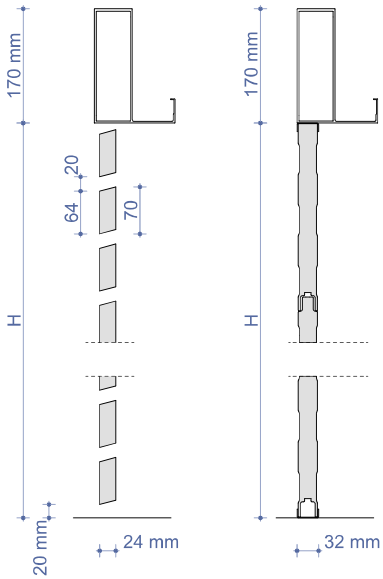
CROSS-SECTION FW25 & FI30

SIBERIAN LARCH



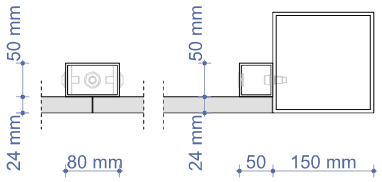
ISO PANEL



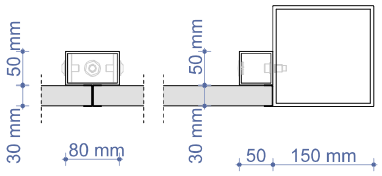


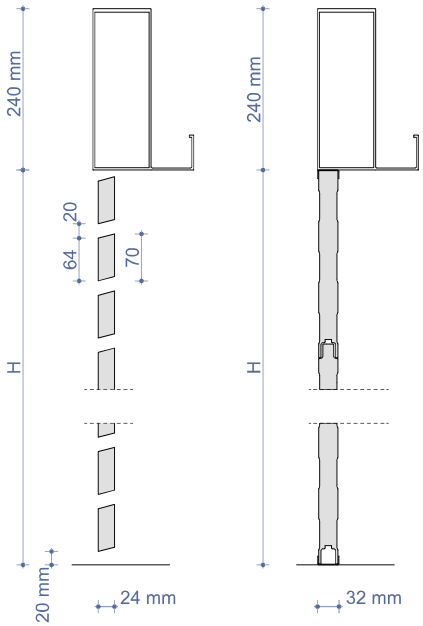
CROSS-SECTION FW25 & FI30

SIBERIAN LARCH



ISO PANEL





Additional Equipment

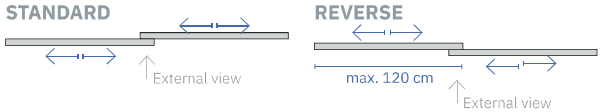
Glass sliding panels G1

Glass sliding panels, made of 10 mm tempered glass, provide protection from wind and rain while maintaining an open space feel.

They are mounted on an aluminium sliding profile with rollers on the lower guide. the sliding system allows for smooth movement along the upper guide. each glass panel features vertical transparent rubber seals for proper sealing. a vertical aluminium profile at the column ensures secure closure. glass panels can slide to the left, right, or centre along the tracks. they stop at the endpoints, with an option to add locks.

F170 & G170 max. number of guides	4 vodila
F240 & G240 max. number of guides	5 vodil
Max. panel width	1200 mm
Max. panel height	2800 mm

SYSTEM 2 GUIDES



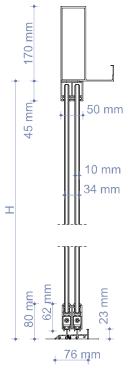
SYSTEM 3 GUIDES

SYSTEM 4 GUIDES

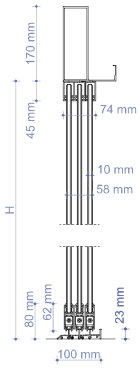
SYSTEM 5 GUIDES

F170 & G170

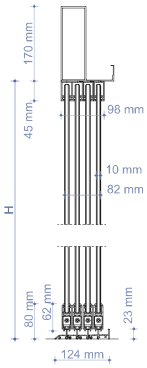
SYSTEM 2 GUIDES



SYSTEM 3 GUIDES

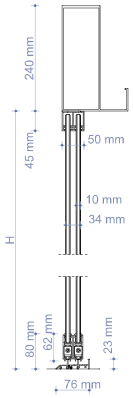


SYSTEM 4 GUIDES

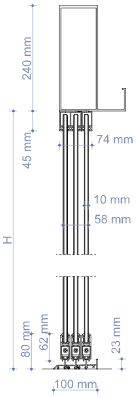


F240 & G240

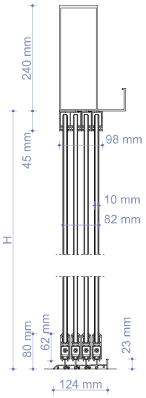
SYSTEM 2 GUIDES



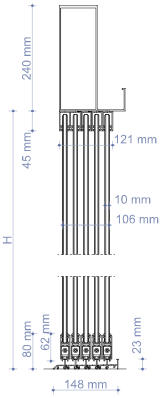
SYSTEM 3 GUIDES



SYSTEM 4 GUIDES



SYSTEM 5 GUIDES



HANDLES AND LOCKS

STANDARD

Security lock with an upper lock featuring a methacrylate handle and a lower lock with a ventilation function.
cat. no.: C-0001

HANDLE WITH KEY

The door includes a stainless steel lock. available with a short or standard handle.
cat. no.: C-0002

Additional Equipment

Glass folding panels G2

Fully extended glass panels.

Stacked glass panels.

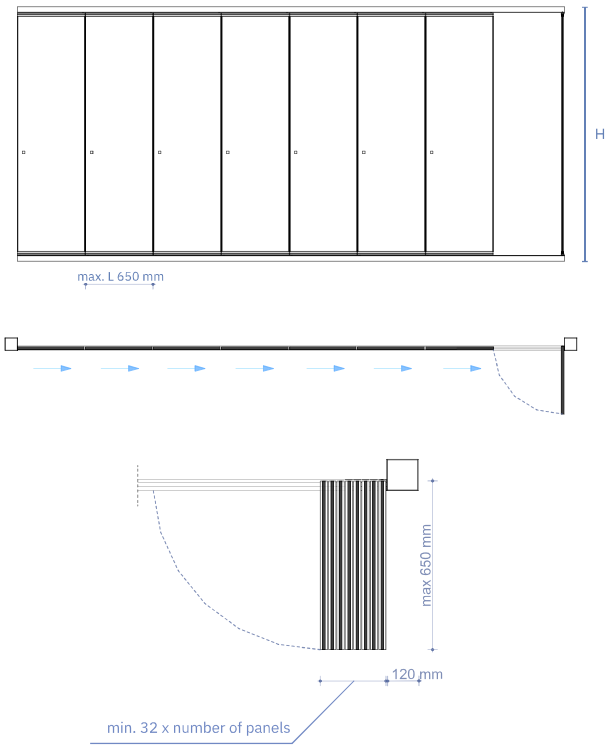
Folding panels allow individual panels to open and stack, providing greater openness and flexibility in the space.

Individual elements fold like an accordion, enabling full opening and adaptability. guidance is provided by the upper and lower tracks, with the panels sliding along the lower guide.

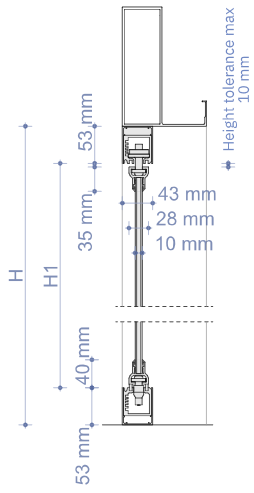
They are made of 10 mm tempered glass, ensuring safety and durability, while transparent rubber seals provide proper sealing. an optional lock can be ordered as additional equipment.

Max. number of panels	12
Max. panel width L	650 mm
Max. panel height H	2800 mm

FRONT VIEW



CROSS-SECTION



Additional Equipment

Sun breakers E300

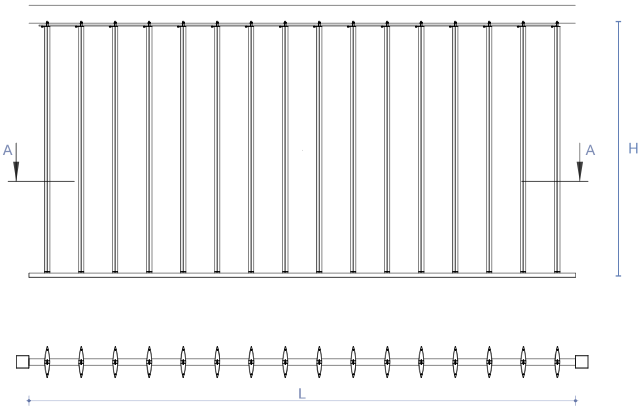
Open view.

Vertical aluminium blades E300 – sun breakers are designed for dynamic closure of side surfaces.

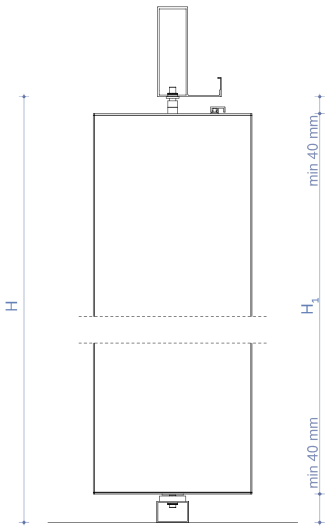
Manual rotation of the sun breakers allows for adjustable shading and ventilation, regulating light and heat passage while enabling a closed or partially open space. the blades have an elliptical shape with dimensions of 300 x 50 mm, sliding into aluminium guides at the top and bottom. all aluminium components are powder-coated in the desired ral colour.

Max. number of blades	20
Max. blade height H	2800 mm

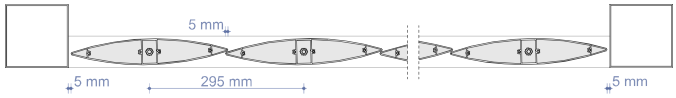
FRONT VIEW



CROSS-SECTION

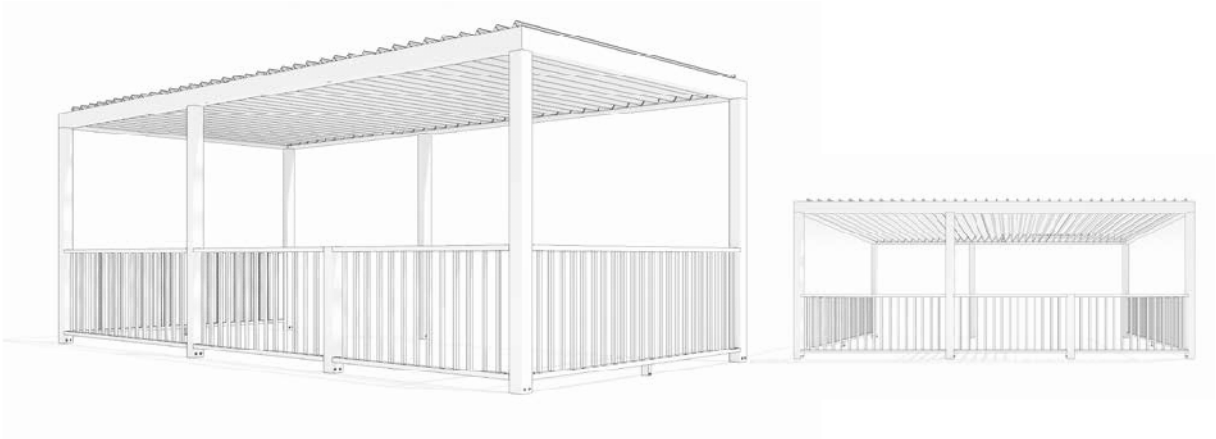


OVERLAPPING BLADE CONFIGURATION



Additional Equipment

Fence
TYPE 1



The aluminium fence consists of welded horizontal and vertical profiles, mounted between the columns. the fence is custom-made to the required length and powder-coated in the desired ral colour.

TYPE 1A

Max. fence length	up to 3500 mm
Horizontal tubes	60/40
Vertical tubes	30/30

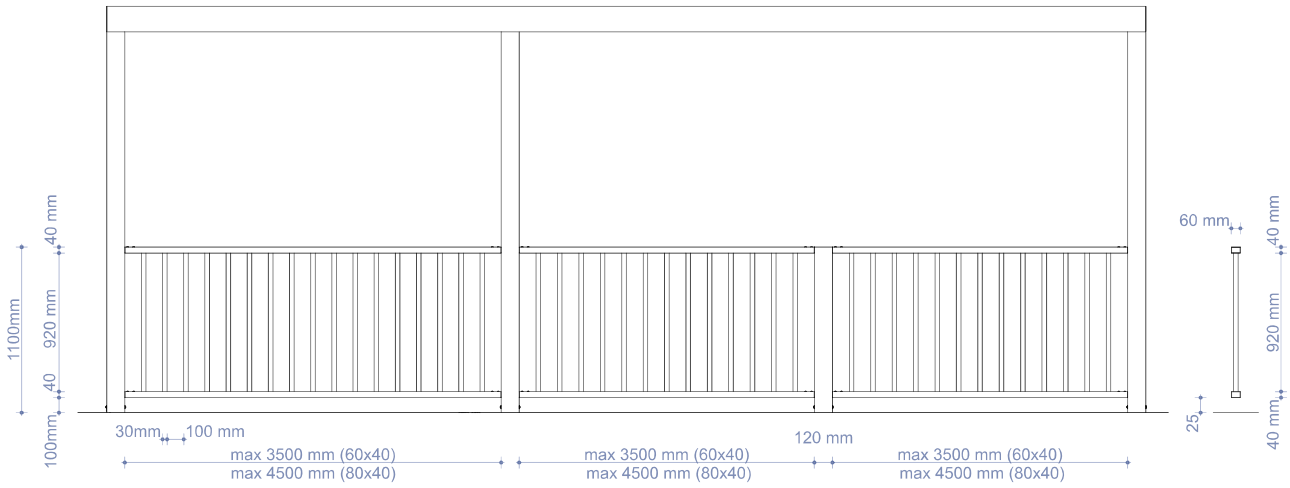
Fence type 1a is suitable for spans between columns up to 3.5 m and is made of horizontal tubes 40 x 60 mm and vertical tubes 30 x 30 mm with a 120 mm spacing.

TYPE 1B

Max. fence length	up to 4500 mm
Horizontal tubes	80/40
Vertical tubes	30/30

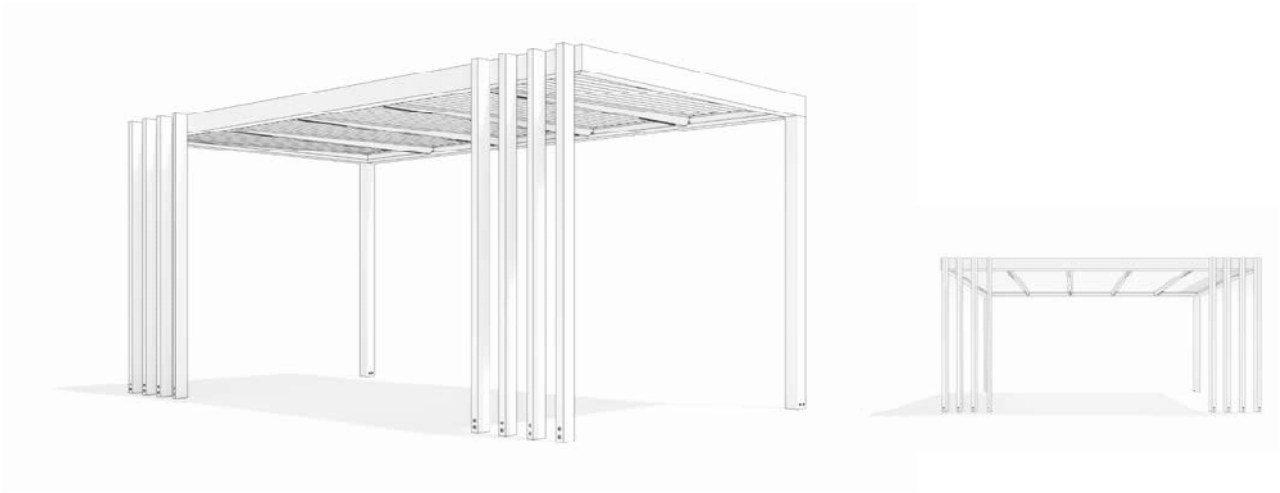
Fence type 1b is suitable for spans between columns up to 4.5 m and is made of horizontal tubes 40 x 60 mm and vertical tubes 30 x 30 mm with a 120 mm spacing.

FRONT VIEW


1100mm
40 mm
920 mm
40
100mm
30mm
100 mm
max 3500 mm (60x40)
max 4500 mm (80x40)
120 mm
max 3500 mm (60x40)
max 4500 mm (80x40)
max 3500 mm (60x40)
max 4500 mm (80x40)
60 mm
40 mm
920 mm
25
40 mm

Additional Equipment

Vertical decorative columns R120



Individual vertical columns of the pergola can be replaced with a group of smaller vertical columns, enhancing the aesthetic value of the canopy. this configuration creates a floating roof appearance while providing additional shading.

Profiles	120/60
Max. column height	3000 mm
For a 120/120 column, are needed	4 external columns
For a 150/150 column, are needed	5 external columns

External columns replace the standard columns, meaning the standard columns are substituted with them.

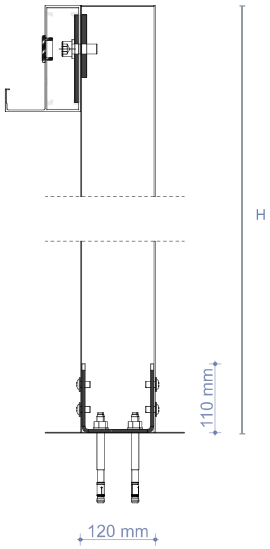
MODELS F170 & G170

Vertical columns of the pergola or canopy measuring 120 x 120 mm in model G170 can be replaced with a group of 4 vertical columns 120 x 60 mm, attached to the pergola or canopy frame. This configuration creates a floating roof effect and provides additional shading.

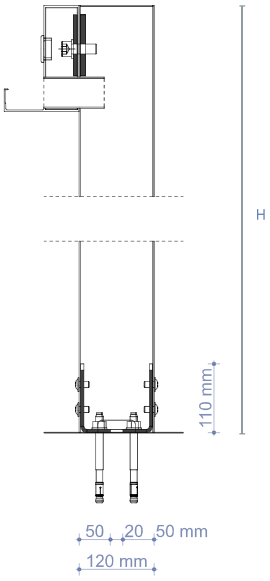
MODELS F240 & G240

Vertical columns of the pergola or canopy measuring 150 x 150 mm in model G240 can be replaced with a group of 5 vertical columns 120 x 60 mm, attached to the pergola or canopy frame.

LOAD-BEARING COLUMN



COLUMN WITH WATER DRAINAGE



Additional Equipment

Decorative ceiling made of wooden or aluminium slats

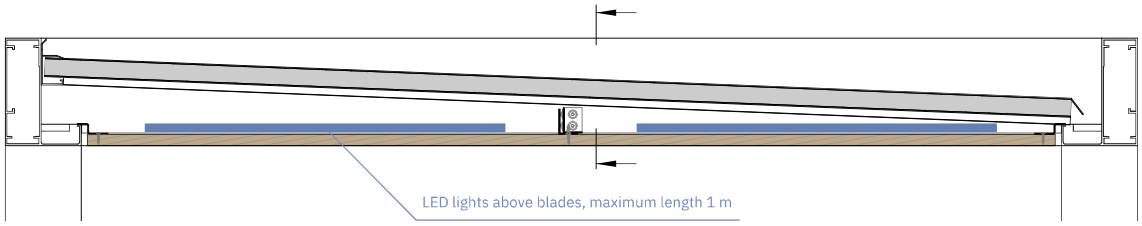
Not possible for bioclimatic pergola

Wooden slats give the canopy a natural and warm appearance, while aluminium slats provide a modern and minimalist aesthetic. LED lights can be integrated between the slats.

Max. slat length without visible joints:

Wooden slats	4000 mm
ALU slats	6000 mm

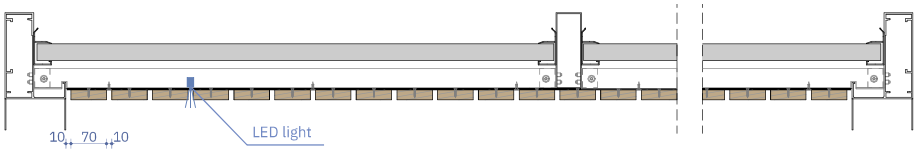
CROSS-SECTION



WOOD / TYPE S1

Blade type: Siberian larch

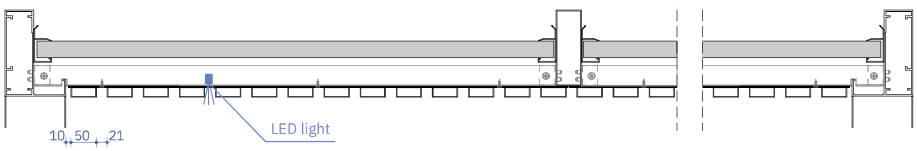
Under the roof of canopy F170 or F240, an additional ceiling can be installed using siberian larch rhomboid slats measuring 20 x 70 mm with a minimum spacing of 20 mm.



ALUMINIUM / TYPE S2

Blade type: aluminium, painted according to the Soltec RAL colour scheme.

The decorative ceiling can also be made of aluminium slats measuring 30 x 50 mm with a minimum spacing of 30 mm. the blades are powder-coated in the selected RAL colour.

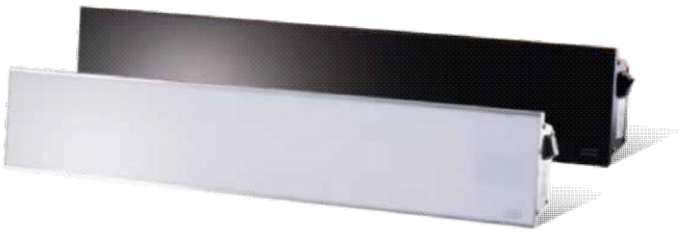


Accessories

Additional comfort

HEATERS

HELIOSA heater
cat. no.: B1510AB1102, B1510AB1202



BURDA heater
cat. no.: BURDA1, BURDA2, BURDA3

SENSORS

Wind sensor
cat. no.: B1606CAA001

Rain sensor
cat. no.: B1606CB0002

Temperature sensor
cat. no.: B1606CC0001

Multi-sensor for wind and sun
cat. no.: B1606CB0003

Multi-sensor for wind, sun, rain, snow, and temperature
cat. no.: B1606CB0001

Transmitter
cat. no.: B1606BAA009

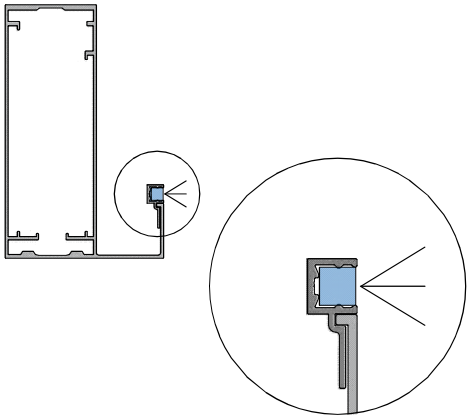
LED LIGHTS

LED LIGHTS

LED lights can be integrated into rotating blades, between the decorative ceiling slats, or in the secondary profiles of the canopy. light intensity can be adjusted with a remote control. different lengths (0.5 m, 1 m, and 1.5 m) and different light types (neutral and warm white) are available.

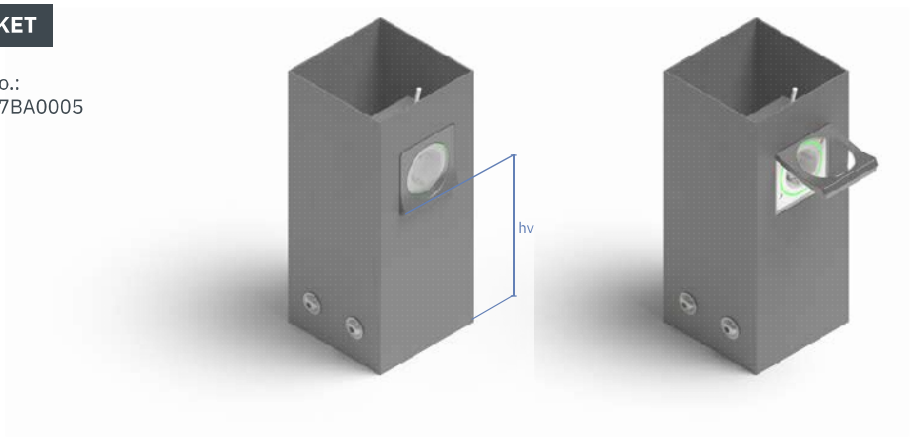
LED LIGHTS ABOVE THE GUTTER

LED lights can also be installed above the gutter of the 240 beam, running along the entire perimeter of the pergola gutter.



SOCKET

cat. no.:
B1607BA0005



CONTROL

Remote control

cat. no.:
B1606ABA003

Somfy IO remote control

cat. no.: B1606AFA005,
B1606AFA007

Daisy interface

cat. no.: B1606ABC001

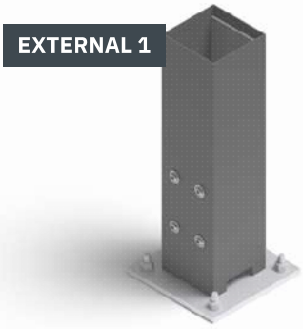
Anchoring

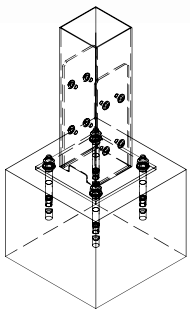
External anchoring options

External anchors are used in areas
where wind speeds exceed 80 km/h.

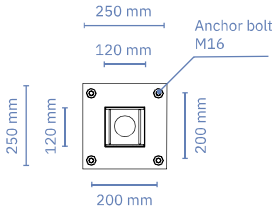
PROTECTION:
- galvanisation
- galvanisation + painting
- stainless steel / INOX

EXTERNAL 1

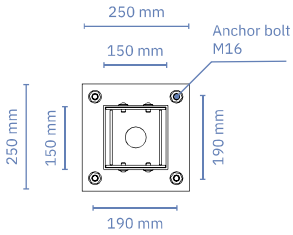




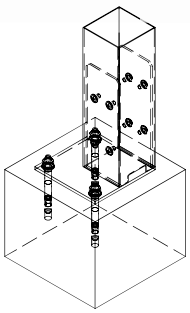
Columns 120/120

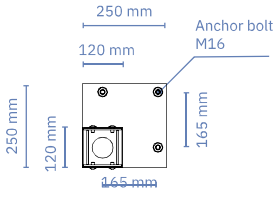


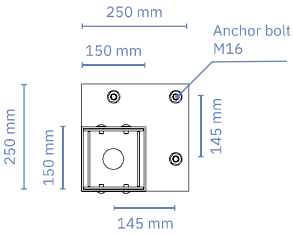
Columns 150/150



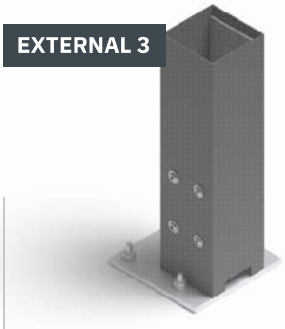
EXTERNAL 2

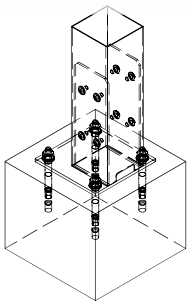


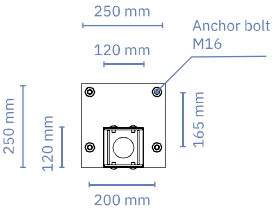


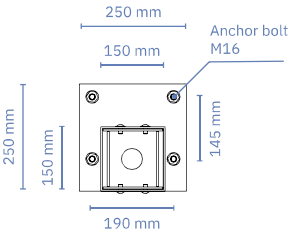


EXTERNAL 3









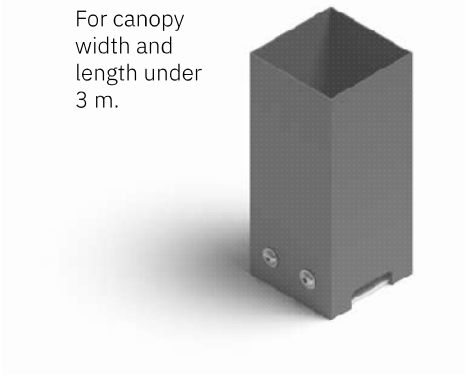
Anchoring

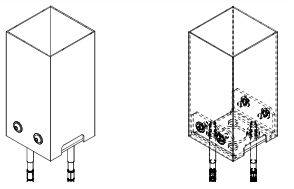
Internal anchoring options

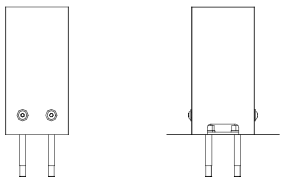
PROTECTION:
- galvanisation,
- stainless steel / INOX

INTERNAL 1

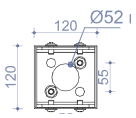
For canopy width and length under 3 m.





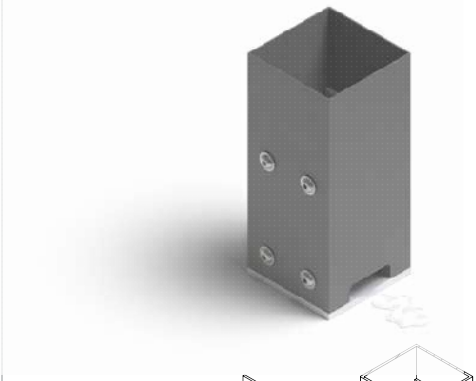


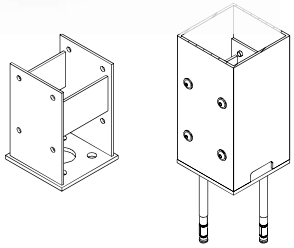
Columns 120/120

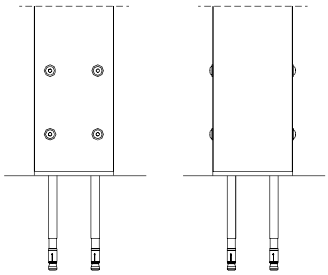


INTERNAL 2

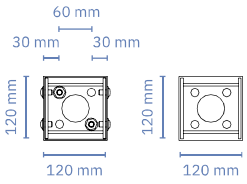
For canopies in areas with wind speeds up to 80 km/h.



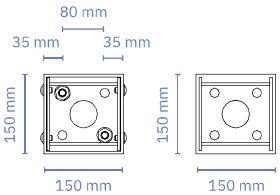




Columns 120/120



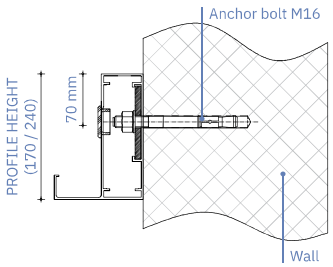
Columns 150/150



Anchoring

Wall mounting

STANDARD

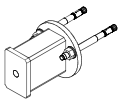


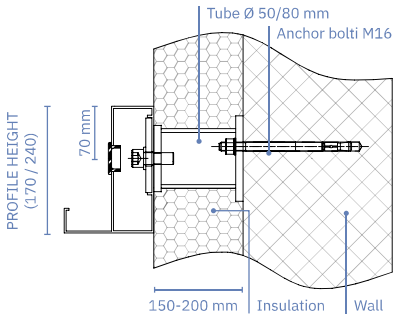
OPTION 1

Additional cost.

PROTECTION:
- galvanisation
- galvanisation + painting
- stainless steel / INOX

Designed for existing facades. The anchor is mounted into a round opening in the facade.



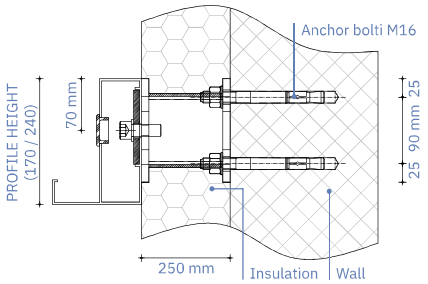


OPTION 2

Additional cost.

PROTECTION:
- galvanisation
- galvanisation + painting
- stainless steel / INOX

Designed for installation before facade construction.

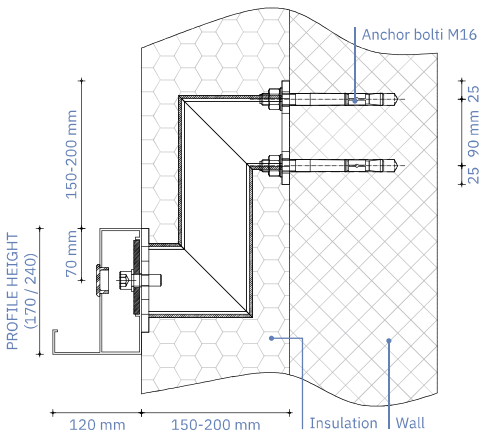


OPTION 3

Additional cost.

PROTECTION:
- galvanisation
- galvanisation + painting
- stainless steel / INOX

Designed for installation before facade construction.



Anchor bolts are included in the price.

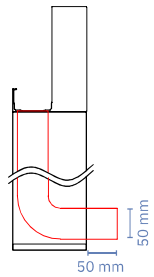
Drainage

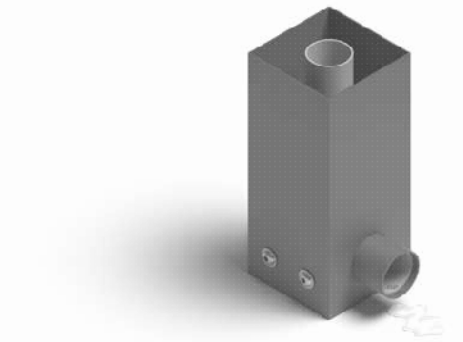
Drainage options

TYPE V

Vertical water outlet through the gutter with an aluminium tube, diameter ø 50 mm.

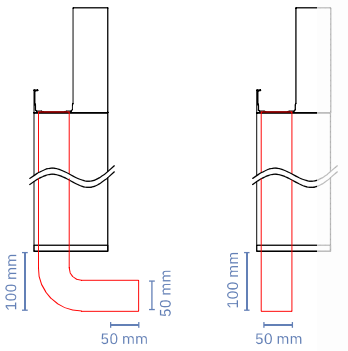
The outlet position and type must be marked on the plan.

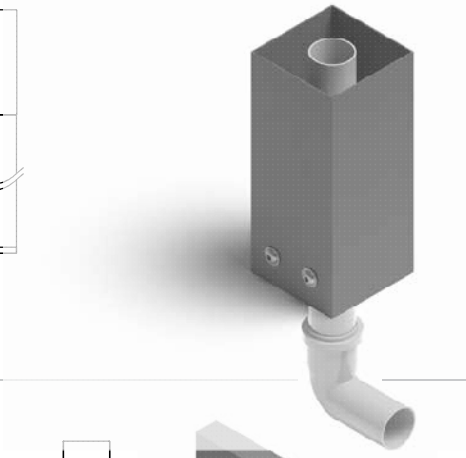




TYPE H

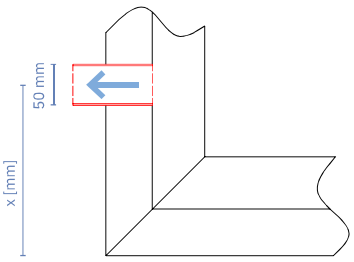
Horizontal water outlet through the beam with an aluminium tube, diameter ø 50 mm.

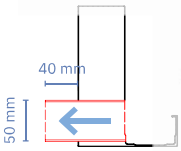


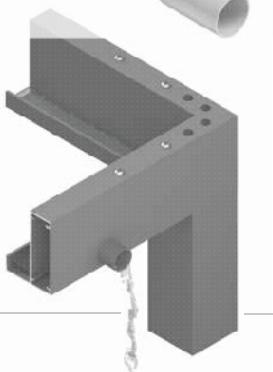


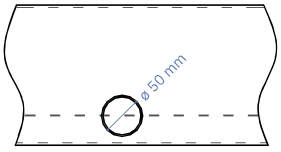
TYPE P

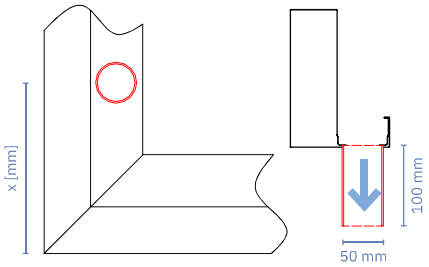
Horizontal water outlet through the beam with a PVC tube, diameter ø 50 mm.

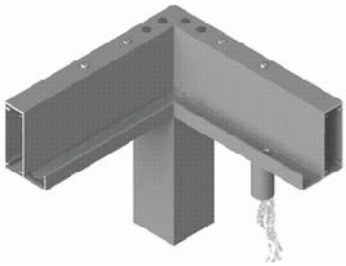












Additional cost. The water outlet is attached to the frame profile.

Wind resistance for pergolas and canopies

BIOCLIMATIC PERGOLAS

The Soltec Bioclimatic Pergola series is designed as an outdoor living space and is not intended for permanent residence. The pergola frame with blades can withstand strong forces, depending on the span and additional loads specified in the load-bearing tables. The quality of Soltec bioclimatic pergolas is ensured through manufacturing in compliance with the shading system standard en 13561. Each pergola produced is issued with technical approval and a CE mark. According to en 13561, there are four wind resistance classes.

Class	0	1	2	3
Wind speed	‹ 28 km/h	max.28 km/h	max.38 km/h	**49 km/h**
Beaufort Scale	‹ 4	4	5	**6**
EN 13561 pressure		4 kg/m^2	7 kg/m^2	**11 kg/m^2**

All Soltec Bioclimatic Pergola structures with rotating blades are approved for wind resistance class 3. The structure is designed with blades that can withstand even higher loads.

The structure can resist wind speeds of up to 60 km/h. For winds exceeding 60 km/h, the blades must be open, and all additional elements, such as screens and panels, should be fully retracted. In this state, the structure can withstand wind loads of up to 120 km/h. Therefore, a wind and weather sensor is recommended to automatically open the blades.

Wind speed and the relationship between speed and force are treated differently by various standards. Factors such as location, terrain shape, and the presence of large buildings or structures nearby influence these measurements. The structure is designed in accordance with eurocodes.

CANOPIES

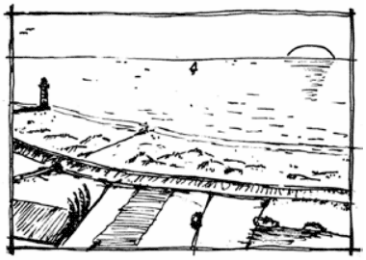
The maximum vertical force a canopy can withstand is a combined and factored maximum force, in compliance with standards en 1990 and en 1991. Canopies are designed for the total specified maximum force, incorporating all factored loads from wind, snow, and self-weight.

Before installing a canopy, the customer must obtain approval from their structural engineer regarding the compliance and suitability of the selected canopy type and foundation type.

For custom canopies, the load-bearing capacities and regulations for canopies must be observed.

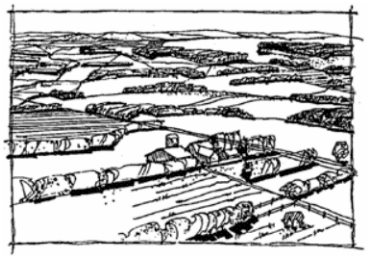
EUROCODE DEPENDENCE WIND / LOAD

Terrain 0



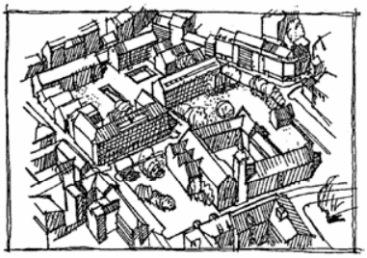
Terrain I

Terrain II



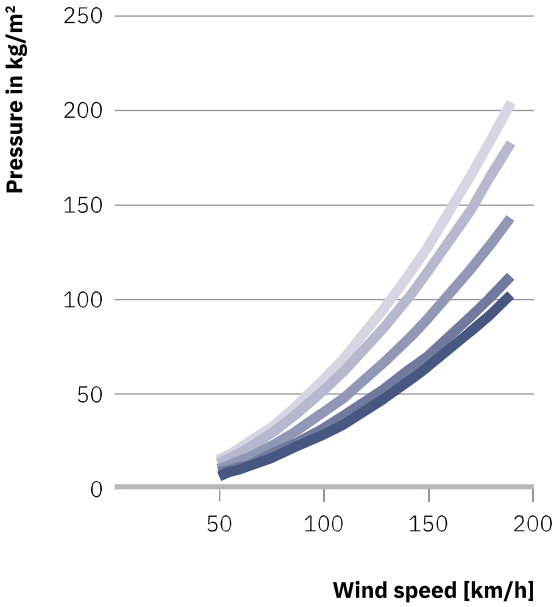
Terrain III

Terrain IV



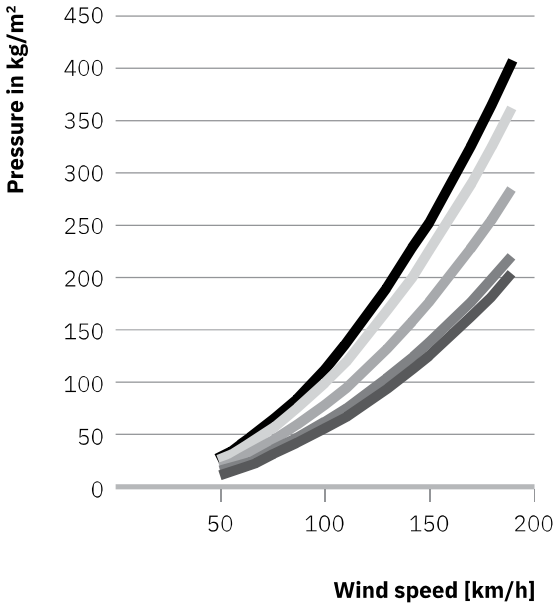
WIND SPEED TO PRESSURE RATIO REPRESENTATION:

PRESSURE ON THE ROOF



Terrain 0 / Pressure on the roof
Terrain I / Pressure on the roof
Terrain II / Pressure on the roof
Terrain III / Pressure on the roof
Terrain IV / Pressure on the roof

BASIC PRESSURE ACCORDING TO STANDARD EN 1991-1-4



Terrain 0 Base pressure
Terrain I Base pressure
Terrain II Base pressure
Terrain III Base pressure
Terrain IV / Base pressure

BEAUFORT SCALE:

Beaufort number	Wind speed [km/h]	Description	Conditions on land
0	<1	**Calm**	No wind. Smoke rises vertically.
1	1-5	**Light air**	Wind movement visible in smoke.
2	6-11	**Light breeze**	Wind felt on exposed skin. Leaves rustle.
3	12-19	**Gentle breeze**	Leaves and small twigs constantly moving.
4	20-28	**Moderate breeze**	Wind lifts dust and paper. Small branches begin to move.
5	29-38	**Fresh breeze**	Branches of moderate size move. Small trees begin to sway.
6	39-49	**Strong breeze**	Large branches in motion. Whistling sound in overhead wires. Using an umbrella becomes difficult. Empty plastic bins topple over.
7	50-61	**High wind, moderate gale, near gale**	Whole trees in motion. Walking against the wind requires effort. Skyscrapers may sway, noticeable especially in upper floors.
8	62-74	**Fresh gale**	Twigs break off trees. Cars veer slightly on the road.
9	75-88	**Strong gale**	Larger branches break, some small trees topple. Temporary signs and barricades fall over. Damage to circus tents and canopies.
10	89-102	**Whole gale**	Trees broken or uprooted, young trees bent and deformed, poorly secured asphalt shingles peel off roofs.
11	103-117	**Violent storm**	Widespread damage to vegetation. Major damage to most roofs, aged or poorly maintained asphalt shingles may break off completely.
12	>117	**Hurricane force**	Significant and widespread damage to vegetation, some windows shattered, structural damage to mobile homes and poorly built sheds or barns. Objects may be lifted and thrown.