PERGOLA SB400 is a functional and aesthetic construction set with fixed roof made of rotating blades, which protect against the sun and rain. System that is used in single module and in multi-module by connecting single modules.

USAGE:

• Sun protection and surface shading. It is also rainproof.

PRODUCT CHARACTERISTICS:

- · Extruded aluminium construction with stainless steel elements
- $\cdot\,$ Water drainage system integrated with the construction
- \cdot The lack of roof slope
- · Rotation of the roof blades: electrically operated
- Possibility of using weather automation
- The movable module (roof) is rainproof. It also provides aesthetic water drainage system through integrated side gutters and posts
- $\cdot\,$ It regulates the access of the sunlight according to users needs
- Protects against weather conditions: rain and wind
- $\cdot\,$ It is not snowproof
- $\cdot\,$ It does not emit toxic substances during the operational term
- The noise pollution due to eletro-mechanical drive is not considered as a significiant threat, but is rather a comfort matter
- · The rotation of roof blades may be started by manual switch or remotely controlled
- Easy access to the motor
- Installation holes for wirings in the corners

TECHNICAL SPECIFICATION:

- Maximum width of the module 4 m
- Maximum projection 7 m
- Maximum height in the light between floor and the beam 2.8 m
- Maximum height of the construction 3.01 m; mechanism of the blades rotation 3.14 m
- Free-standing or wall-mounted construction, single- or multi-module (constructed from single-modules) is made of extruded aluminium profiles and stainless-steel elements, equipped with water drainage system
- · Slope angle 0 degrees
- Transverse slope of the blade ends 20 mm
- Intervals of roof blades 200 mm
- Blade rotation range: 0-90° (for Picolo motor) or 0-130° (for motor 24V)
- Wind load resistance class 6 (400 Pa ~41 kg/m²)
- Maximum drainage capacity drains the rain at intensivity up to 0.05 l/s/m² at maximum time of 5.3 minutes (depending on the configuration of water outflows)
- LED lighting with a neutral colour of 4500 K (in strips on the gutters) or 3300 K (light points in the blades) Drainage through gutters 92 mm wide (with optional angular overflows only in case of 4 gutters) and outflow to beams and posts as well as water outflow at the bottom of the posts
- Electric drive: linear motor ELERO Picolo XL (230V AC), or alternatively motor 24V
- Construction colours: 9016M, FSM71319, 7016M (standard) and RAL palette (optional)
- External usage
- Construction in accordance with PN-EN1090 and PN-EN13659

ACCEPTABLE TECHNOLOGICAL TOLERANCES OF THE EXTERNAL DIMENSIONS OF THE PERGOLA ARE +/- 10 mm



Single wall-mounted (transverse) version

NOTE: Foot outline may protrude beyond the posts (depending on the type)











PERGOLA SB400 Cross-section of the profiles











PERGOLA SB400 Feet without the water outflow



PERGOLA SB400 Feet with water outflow



Feet from 8 mm thick aluminium sheet EN AW-5754, galvanized and powder coated

PERGOLA SB400 Cross-section

NOTE: There are elongated blade mounting shafts on the bearing side.



PERGOLA SB400 Longitudinal section (bearing side)





Mechanism and blade rotation range



The manufacturer reserves the right to introduce changes to the products at any time without prior notice.









Layout of LED light points in pergola SB400 blades				
Pergola projection [mm]	Total number of blades with LED points	Number of the blade with LED points counting from the front of pergola	Number of LED points in a blade	
			Pergola width [mm]	
			up to 2500	2501 to 4000
1400	2	2, 5	2 LED axes are the result of the division of the total width of pergola into 3 equal parts	3 one in the middle, axes of extreme outer LED points are the result of the division of the total width of pergola into 4 equal parts
1600 and 1800		3, 6		
2000 and 2200		3, 7		
2400		4, 8		
2600 and 2800		4,9		
3000		5, 10		
3200 and 3400		5, 11		
3600	3	4 , 9, 14		
3800		5, 10, 15		
4000 and 4200		4, 10, 16		
4400 and 4600		5, 11, 17		
4800 and 5000		6, 12, 18		
5200		7, 13, 19		
5400	4	5, 10, 16, 22		
5600 and 5800		5, 11, 17, 23		
6000 and 6200		6, 12, 18, 24		
6400 and 6600		7, 13, 19, 25		
6800 and 7000		8, 14, 20, 26		







The manufacturer reserves the right to introduce changes to the products at any time without prior notice.

Types of mounting of type 1 bracket (long) (hot-rolled version)

Note: SELT is not responsible for the selection of anchors and fixing the bracket to the substrate. This can make a decisive impact on the reduction of the load capacity of the bracket (especially in substrates with a thermal insulation layer and/or perforated ceramic).



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WITHDRAWN VERSION

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NOTE:





Types of mounting of type 1 bracket (short) (hot-rolled version)

Note:

Note: SELT is not responsible for the selection of anchors and fixing the bracket to the substrate. This can make a decisive impact on the reduction of the load capacity of the bracket (especially in substrates with a thermal insulation layer and/or perforated ceramic).



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PERGOLA SB400 Universal wall brackets

Note:

SELT is not responsible for the selection of anchors and fixing the bracket to the substrate. This can make a decisive impact on the reduction of the load capacity of the bracket (especially in substrates with a thermal insulation layer and/or perforated ceramic).



PERGOLA SB400 Mounting options with a distance

Note:

SELT is not responsible for the selection of anchors and fixing the bracket to the substrate. This can make a decisive impact on the reduction of the load capacity of the bracket (especially in substrates with a thermal insulation layer and/or perforated ceramic).



PERGOLA SB400 Mounting option without distance

Note:

SELT is not responsible for the selection of anchors and fixing the bracket to the substrate. This can make a decisive impact on the reduction of the load capacity of the bracket (especially in substrates with a thermal insulation layer and/or perforated ceramic).





PERGOLA SB400 Measurement for the intermediate post





SLIDE SYSTEM

SYSTEM SLIDE

External sun protection system composed of segmented sliding walls, suspended on trolleys on the top rail and guided in the bottom rail, filled with blades or fabric. Mounted vertically to the supporting structure or in front of the window or within the opening in the outer surface of the building. The system does not have a drive. Especially designed for the pergola SB500.

USAGE:

- Provides sun protection and surface shading
- Immediate separation of space

PRODUCT CHARACTERISTICS:

- Light and durable aluminium sliding rails that are suspended on bearing trolleys
- Two frame filling variants available: aluminium blades or fabric (Serge600 or Serge 1%)
- Fixed angle of blades
- Usage of aluminium guiding rails that enables 3 frames in parallel to each other
- Trolley cases made as die-casts each with 4 wheels with bearings
- They regulate access of the sunlight and protect from the view of the bystanders
- · Sunbreaker filling has fixed tilt angle of the blades
- · Suspension on bearing trolleys enables easy movement and stopping in any position
- · It does not emit any toxic substances during the operational term
- · The system does not require power supply
- It requires a load-bearing and solid supporting structure for installation (upper suspension)
- · Construction colours 9016M, FSM71319, 7016M (standard) and RAL palette (optional)

TECHNICAL SPECIFICATIONS

- Total height (with the guide rails) 2800 mm
- Total length (of the guide rails) 6698 mm
- Maximum width of the frame 1379 mm
- Maximum height of the frame 2725 mm
- Dimensions of the upper guide rail (guiding track) 149x34 mm
- Dimensions of the lower guide rail (leading track) 149x20 mm
- \cdot The number of guiding tracks in one guide rail 3 pieces
- \cdot Filling with blades or fabric
- Cross-section of blades 52x10 mm with a tilt of 55 degree from the horizontal level, spacing 67 mm (or 43 mm optionally)
- Wind load resistance class 6 (400 Pa)

TOLERANCE DEVIATION OF THE RECTILINEARITY OF THE VERTICAL POSTS OF THE FRAMES WITH FABRIC FILLING IS UP TO 10 mm.







SLIDE SYSTEM Filling with blades 1389 (with bumpers) 149 max. 1379 mm 825 - suspension trolleys 73 тах. 2725 mm тах. 2800 пп A 40 49 20 149 5

SLIDE SYSTEM Filling with fabric

Note: Fabric may show tension differences in case of larger frame widths.



SLIDE SYSTEM Cross-sections of the profiles





Material: EN AW6060 T66 Mass 2.16 kg/m

Upper guide rail

Bottom/side frame cross-section



Material: EN AW6060 T66 Mass 1.53 kg/m

Bottom guide rail

Pióro



Material: EN AW6060 T66 Mass 0.35 kg/m





