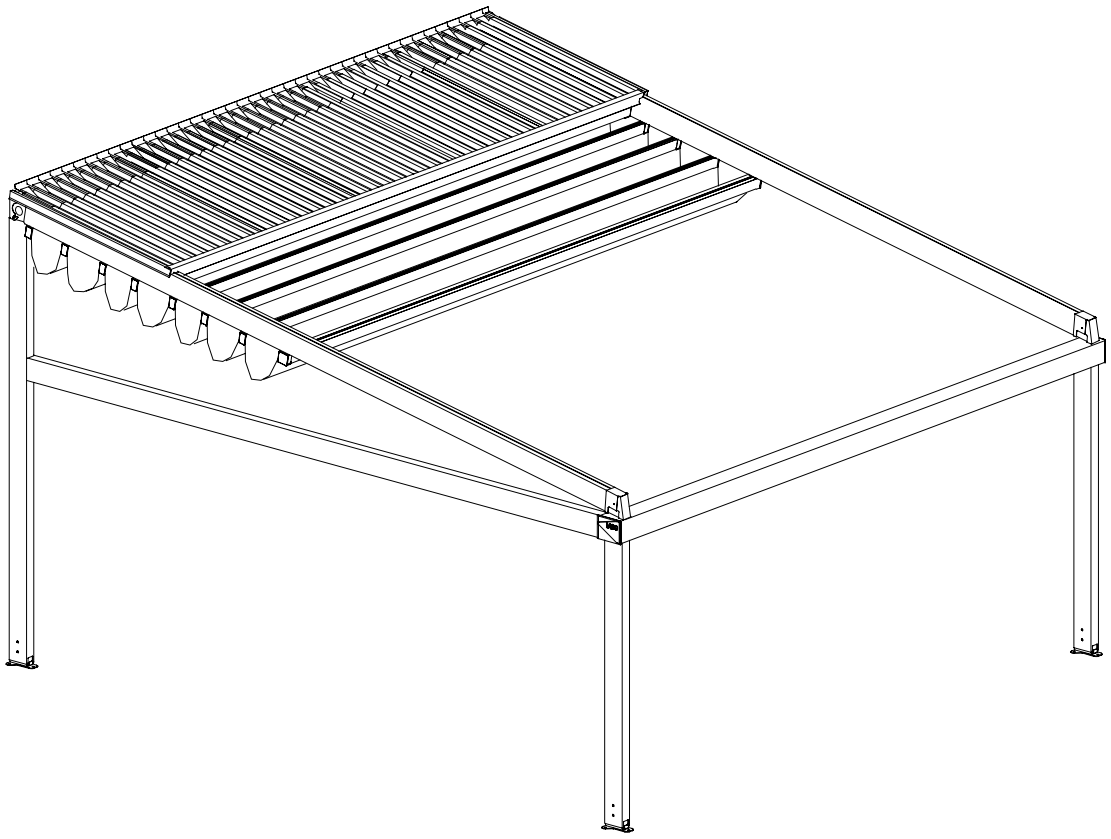
IASO®

Better Outside

TECHNICAL DATA SHEET **ENGLISH** **PERGOLAS** **SELENE**



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DESCRIPTION

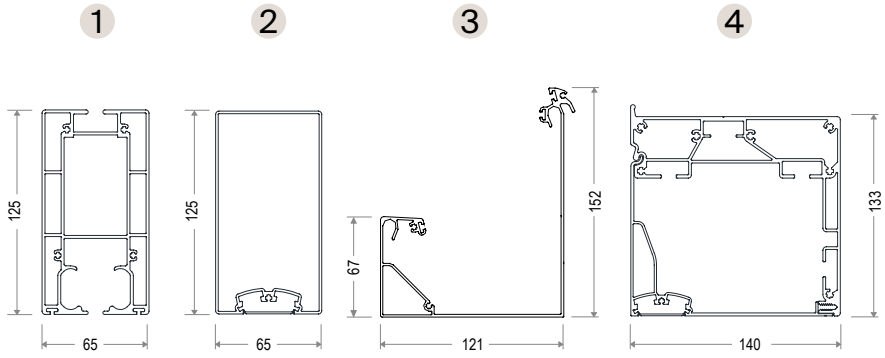
The SELENE pergola is a custom-made mobile roofing system designed to provide protection against sun, rain, or wind. Every detail has been carefully considered so that, in addition to being a functional shading element, it also serves as an elegant architectural feature. It consists of an aluminium structure and a folding fabric canopy.

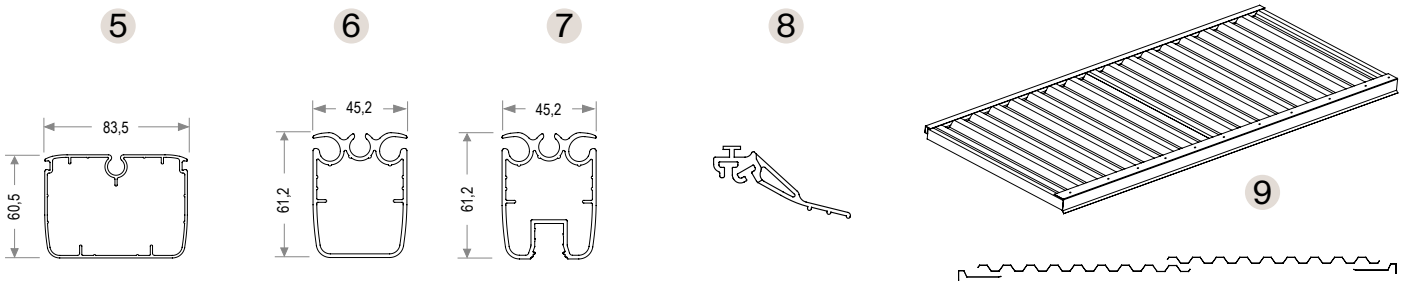
TECHNICAL SPECIFICATIONS

- Structure made of 6063-T5 aluminium profiles.
- Components with an electrostatic powder coating or anodised finish.
- Stainless steel bolts and fixings.
- Covers up to 78 m².
- Wind resistance up to grade 11 on the Beaufort scale.
- Waterproof gutter with internal fabric lining to prevent leakage.
- Optional integrated LED or SPOT lighting on the fabric carrying crossbar.
- Optional LED lighting system along the perimeter and posts.
- Remote control for motor and lighting.
- “ALL SEASON”

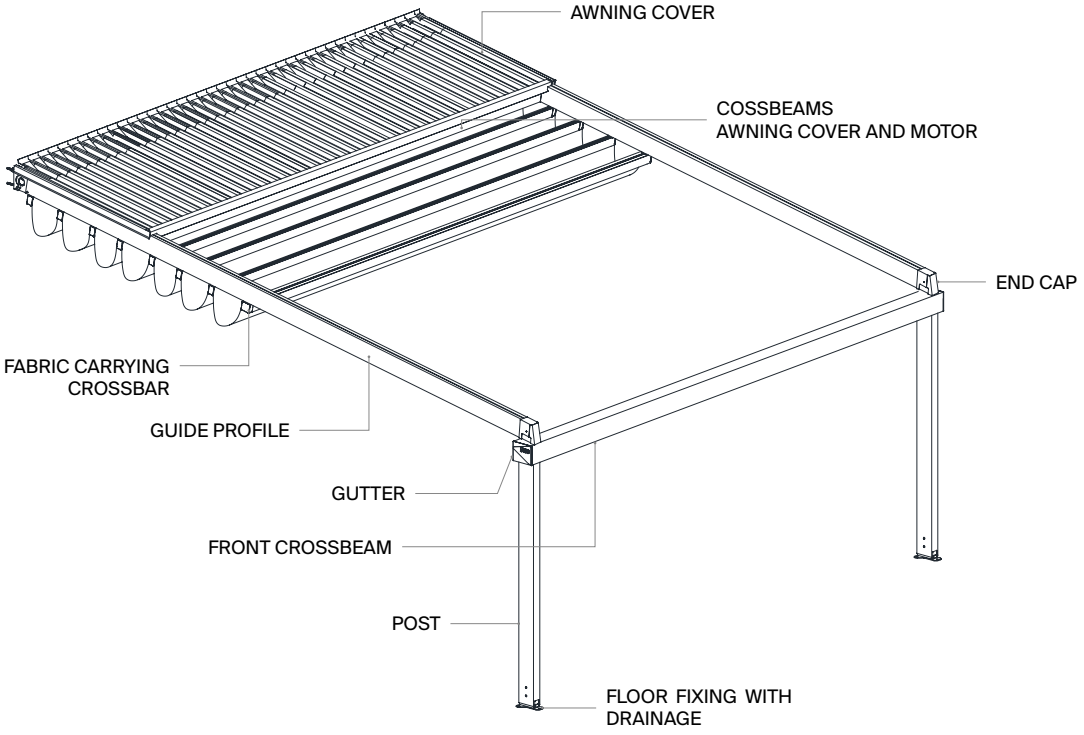
MAIN PROFILES

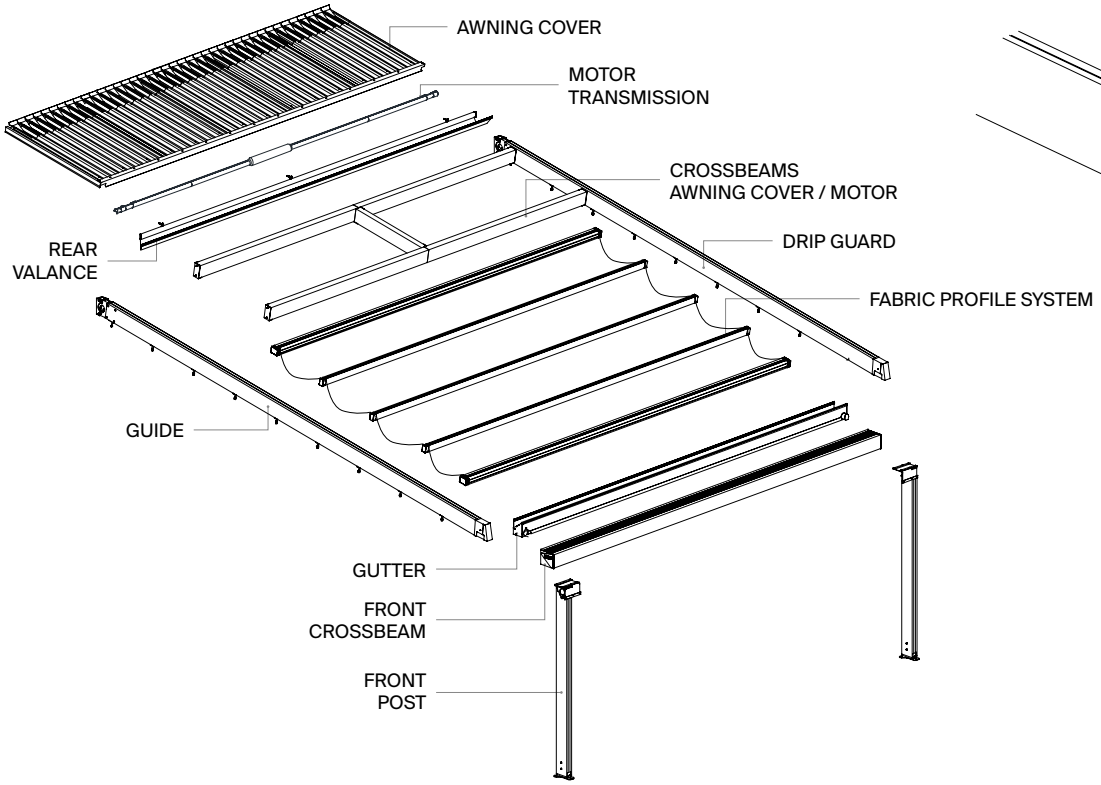
1. GUIDE
2. POST
3. GUTTER
4. FRONT CROSSBEAM
5. FINAL FABRIC CARRYING CROSSBAR
6. INTERMEDIATE FABRIC CARRYING CROSSBAR (without light or with spot light)
7. INTERMEDIATE FABRIC CARRYING CROSSBAR WITH LED STRIP
8. DRIP GUARD
9. AWNING COVER

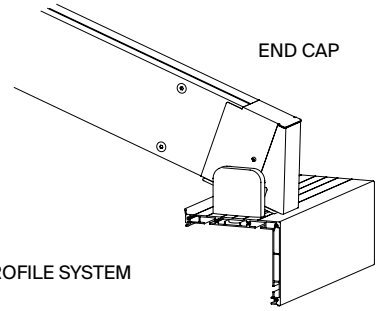




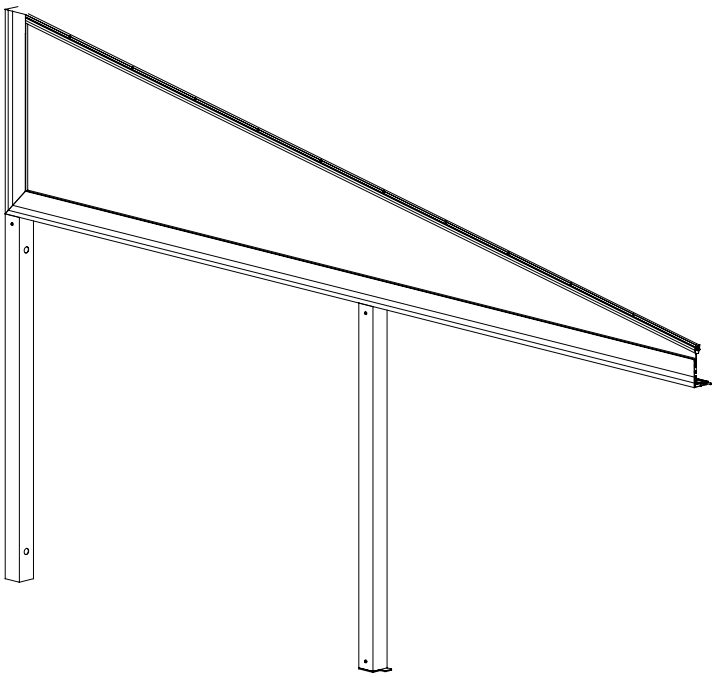
COMPONENTS


AWNING COVER
COSSBEAMS
AWNING COVER AND MOTOR
END CAP
FABRIC CARRYING
CROSSBAR
GUIDE PROFILE
GUTTER
FRONT CROSSBEAM
POST
FLOOR FIXING WITH
DRAINAGE

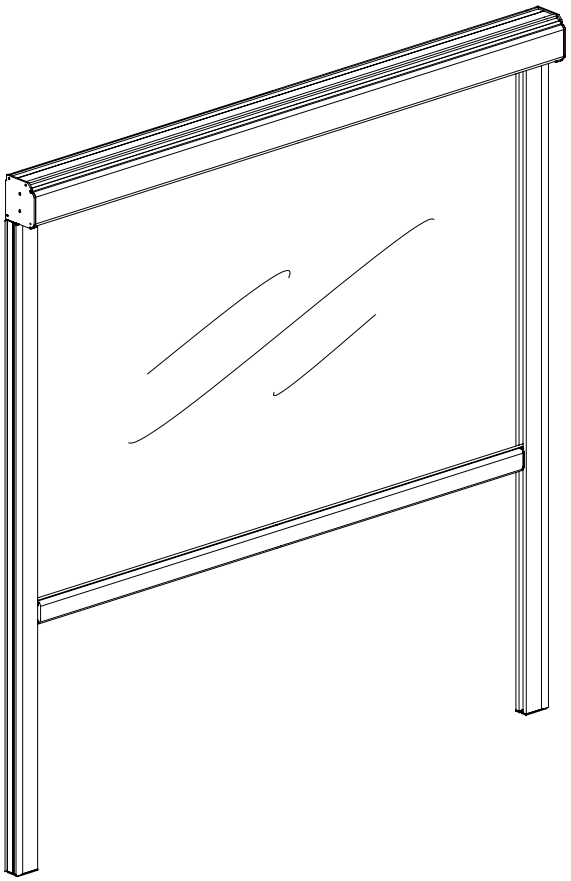

AWNING COVER
MOTOR
TRANSMISSION
CROSSBEAMS
AWNING COVER / MOTOR
REAR
VALANCE
DRIP GUARD
FABRIC PROFILE SYSTEM
GUIDE
GUTTER
FRONT
CROSSBEAM
FRONT
POST


END CAP

OPTIONAL: SIDE ENCLOSURE (GABLE END)

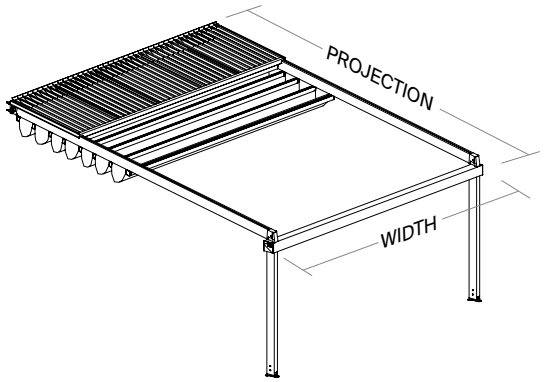


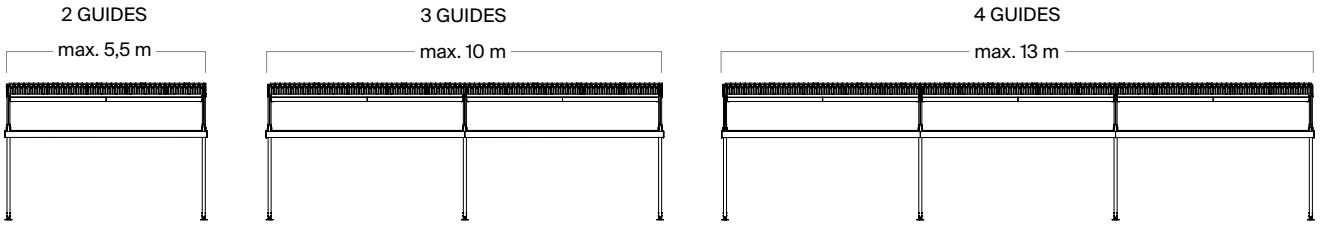
OPTIONAL: PERIMETER ENCLOSURE
SIDE / FRONT CURTAIN



DIMENSIONS

	WIDTH		PROJECTION	
	min. (m)	max. (m)	min. (m)	max. (m)
2 GUIDES	2,5	5,5	2,5	6
3 GUIDES	6	10		
4 GUIDES	10,5	13		





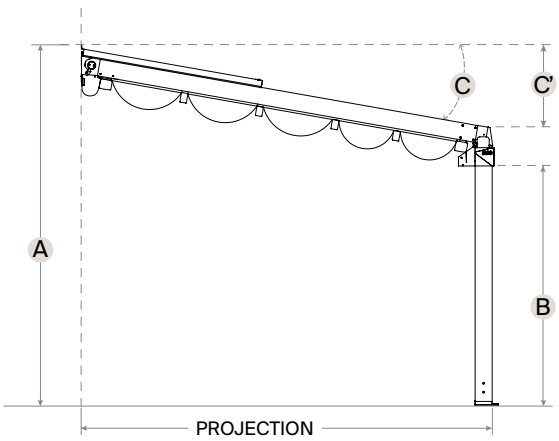
FABRIC STACKING

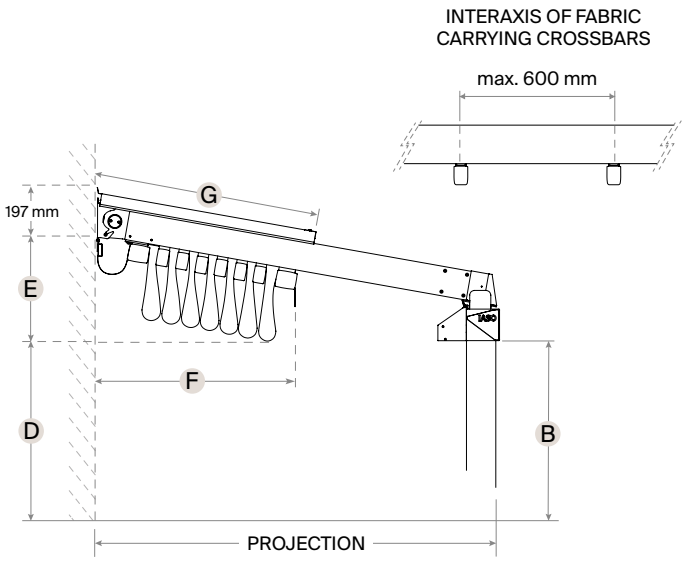
Pre-assembled fabric line max. 5,8 m.

- A MAXIMUM HEIGHT
- B CLEARANCE HEIGHT
- C SLOPE (%)
- C' HEIGHT DIFFERENCE OF THE SLOPE
- D HEIGHT FROM GROUND TO FOLDED FABRIC
- E FOLDED FABRIC HEIGHT
- F FOLDED FABRIC PROJECTION
- G AWNING COVER PROJECTION

WIDTH	2000	3000	4000	5000	6000	7000	8000
E	289	303	310	324	338	352	366
F	496	602	657	766	875	984	1093
G	569	678	733	842	951	1060	1169

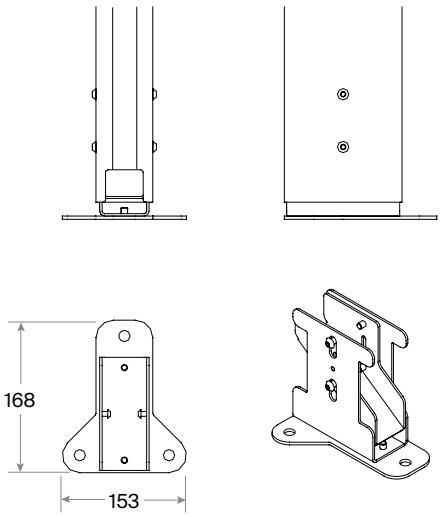
C = 12,28 % (7° reference inclination)



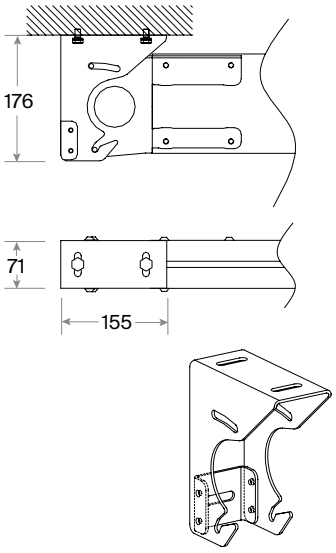


ANCHORS AND FIXINGS

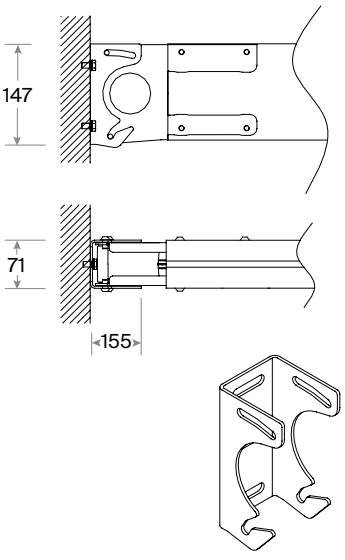
POST-TO-GROUND FIXINGS



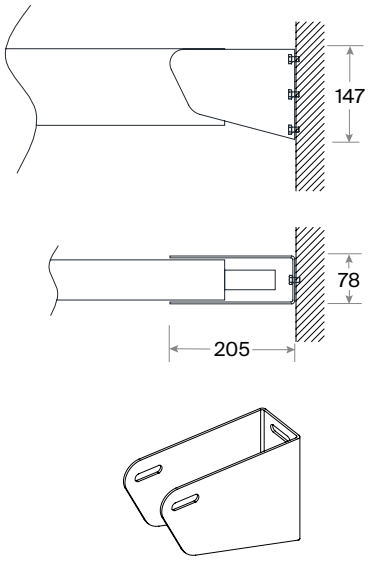
GUIDE FIXING TO CEILING



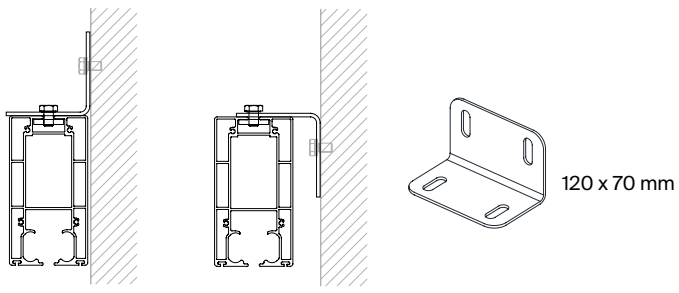
GUIDE FIXING TO WALL



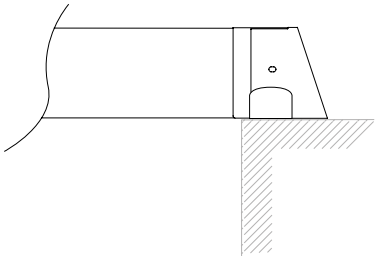
FRONT FIXING BETWEEN WALLS



INTERMEDIATE FIXING BETWEEN WALLS

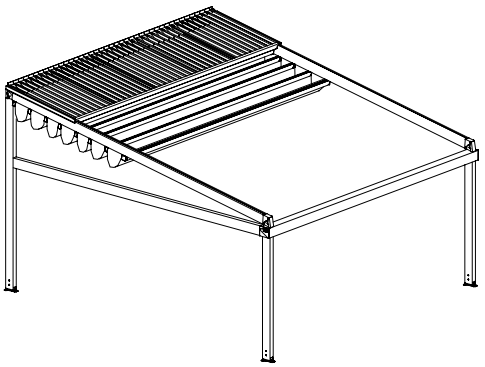


FRONT SUPPORTED FIXING

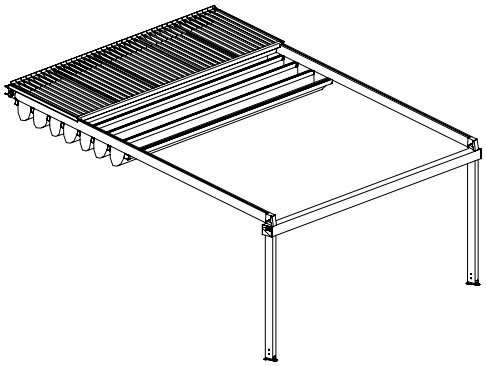


INSTALLATION OPTIONS

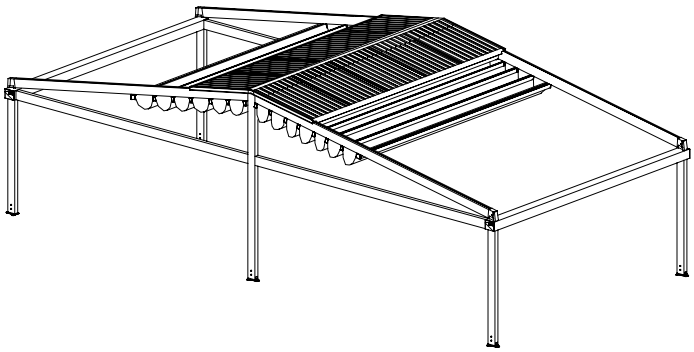
FREESTANDING



TO WALL

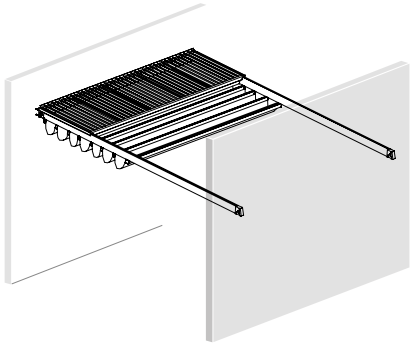


FREESTANDING WITH DOUBLE PICTH

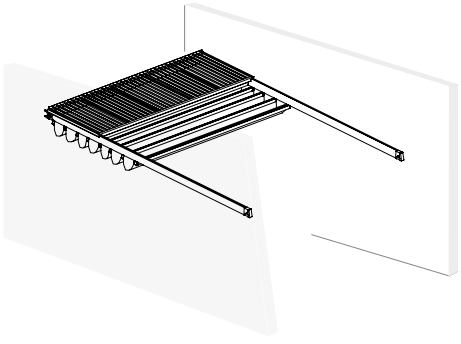


BETWEEN WALLS

FRONT FIXING

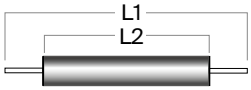


SIDE FIXING



MOTORISATION

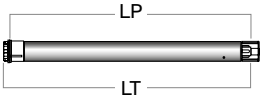
DOOYA



230V / 50Hz
DV64E

TECHNICAL SPECIFICATIONS	
Rated Torque (Nm)	2x25
Rated Speed (Rpm)	26
Rated Current (A)	2.22
Rated Power (W)	490
Degree of Protection (IP)	IP44
Maximum Limit Turn (turn)	∞
Running Time (min)	>4
Working Temperature (°C)	-10°C~50 °C
L1 / L2 (min)	545 / 411

SOMFY



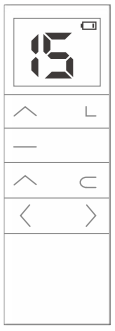
SUNILUS 85/1
85/17 IO 1165170

TECHNICAL SPECIFICATIONS	
Total It	740
Total Ip	717
Nominal torque	85
Speed (rpm)	17
Absorbed power (w)	400
Voltage (v)	230
Thermal protection trip temperature (°c)	140°C
ø Minimum winding shaft	63 x 1,5

EMITTERS

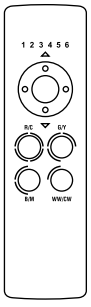
EMISOR DOOYA 15 chanels

TECHNICAL SPECIFICATIONS	
Power supply	3V
Lithium battery	CR2430
Battery lifespan	>2 years
Protection rating	IP20
Dimensions	130x44x10 mm
Operating temperature	-10°C~50°C
Transmission power	10 mW
Radio frequency	433.92 MHz ± 100 KHz
Operating range	35 m



EMISOR NOON 42 chanels

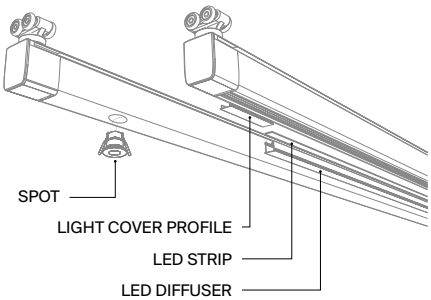
TECHNICAL SPECIFICATIONS	
Power supply	3V ± 10%
Lithium battery	CR2430
Battery lifespan	>2 years
Protection rating	IP20
Dimensions	125x40x10 mm
Operating temperature	-5°C~50°C
Transmission power	10 mW
Radio frequency	433.92 MHz
Operating range	35 m



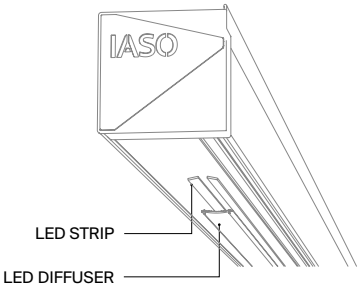
* For lighting with dimmer, a second remote control is required: NOON

LIGHTING

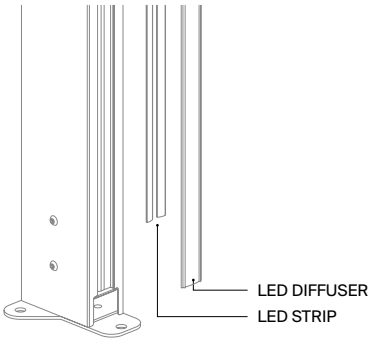
FABRIC CARRYING CROSSBAR LIGHTING



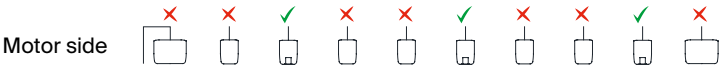
PERIMETER LIGHTING
On front crossbeam and/or side crossbeam

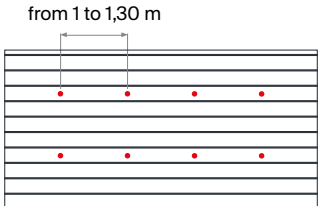


LIGHTING ON FRONT POST



STANDARD DISTRIBUTION EVERY 4 CROSSBARS

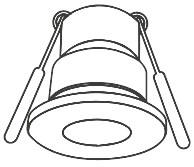




SPOT LIGHT CHARACTERISTICS

Optional for crossbars lighting

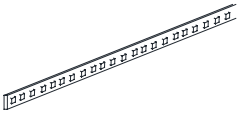
TECHNICAL SPECIFICATIONS	
Colour	Warm white
Colour temperature	3000 K
Beam angle	120°
Consumption	4,5 W/spot
Voltage	24V DC
Luminous flux	280-300 Lm
Protection rating	IP65
Dimensions	Ø36 mm
Recessed hole	Ø22 mm
Material	Aluminium



RGB LED STRIP CHARACTERISTICS

Optional for perimeter and crossbars lighting

TECHNICAL SPECIFICATIONS	
Colour	Warm white
Colour temperature	3200-3300 K
Beam angle	120°
Consumption	4,8 W/m
Voltage	24V DC
Luminous flux	400 Lm/m
Protection rating	IP64
Type of diode	SMD2835
Luminous flux maintenance	L70 B50
Service life	25.000 h
Efficiency	83 Lm/W
No. LEDs per metre	120
Operating temperature	-20°C ~ +45°C



! WARNING:
SWITCH OFF THE LIGHTING WHILE THE CANOPY IS MOVING

WIND CLASSIFICATION

400 N/m²
6
UNE EN 13561

CLASS	Grade Beaufort	Wind speed		Pressure	Environmental condition
0	0	0 - 1 km/h	0.0 - 0.3 m/s	0.05 N/m²	Calm
	1	1 - 5 km/h	0.3 - 1.4 m/s	1.21 N/m²	Very light breeze
	2	6 - 11 km/h	1.7 - 3.1 m/s	5.84 N/m²	Light breeze
	3	12 - 19 km/h	3.4 - 5.3 m/s	17.41 N/m²	Gentle breeze
1	4	20 - 28 km/h	5.6 - 7.8 m/s	37.81 N/m²	Moderate wind
2	5	29 - 38 km/h	8.1 - 10.6 m/s	69.64 N/m²	Fresh wind
3	6	39 - 49 km/h	10.9 - 13.6 m/s	115.79 N/m²	Cool wind
4	7	50 - 61 km/h	13.9 - 17.0 m/s	179.45 N/m²	Strong wind
5	8	62 - 74 km/h	17.5 - 20.6 m/s	264.08 N/m²	Gale
6	9	75 - 88 km/h	20.9 - 24.5 m/s	373.46 N/m²	Strong gale
-	10	89 - 102 km/h	24.7 - 28.3 m/s	501.74 N/m²	Storm
-	**11**	**103 - 117 km/h**	**28.6 - 32.5 m/s**	**660.16 N/m²**	**Violent storm**
-	12	118 - 133 km/h	32.6 – 36.9 m/s	853.06 N/m²	Hurricane

CLASS ACCORDING TO STANDARD UNE EN 13561:2015

*The correspondence of the class according to UNE EN 13561 with the wind speed or Beaufort scale is indicative.

PRECIPITATION CLASSIFICATION

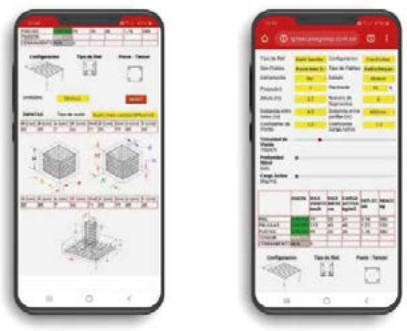
CLASS	Average intensity in one hour (mm/h)	Environmental condition
1	≤ 2	Weak
2	> 2 y ≤ 15	Moderate
3	**>15 y ≤ 30**	**Strong**
4	>30 y ≤ 60	Very strong
5	>60	Torrential

Not suitable for snow loads. In the event of snowfall, the pergola must remain retracted.

FOUNDATION CALCULATION

With our Toscana Structure APP, we can design and calculate the ideal pergola in minutes, according to the wind and snow loads required by the client. It also automatically provides the technical specifications for the reinforced concrete base needed to anchor the pillars to the ground.

Our technical department is at your disposal to suggest the best configuration and achieve the optimal product with the most suitable technical specifications.



We believe in the *elegance* of engineering.