IASO®

Better Outside

TECHNICAL DATA SHEET ENGLISH PARASOLS SPECIAL COLLECTION AZORES PLUS

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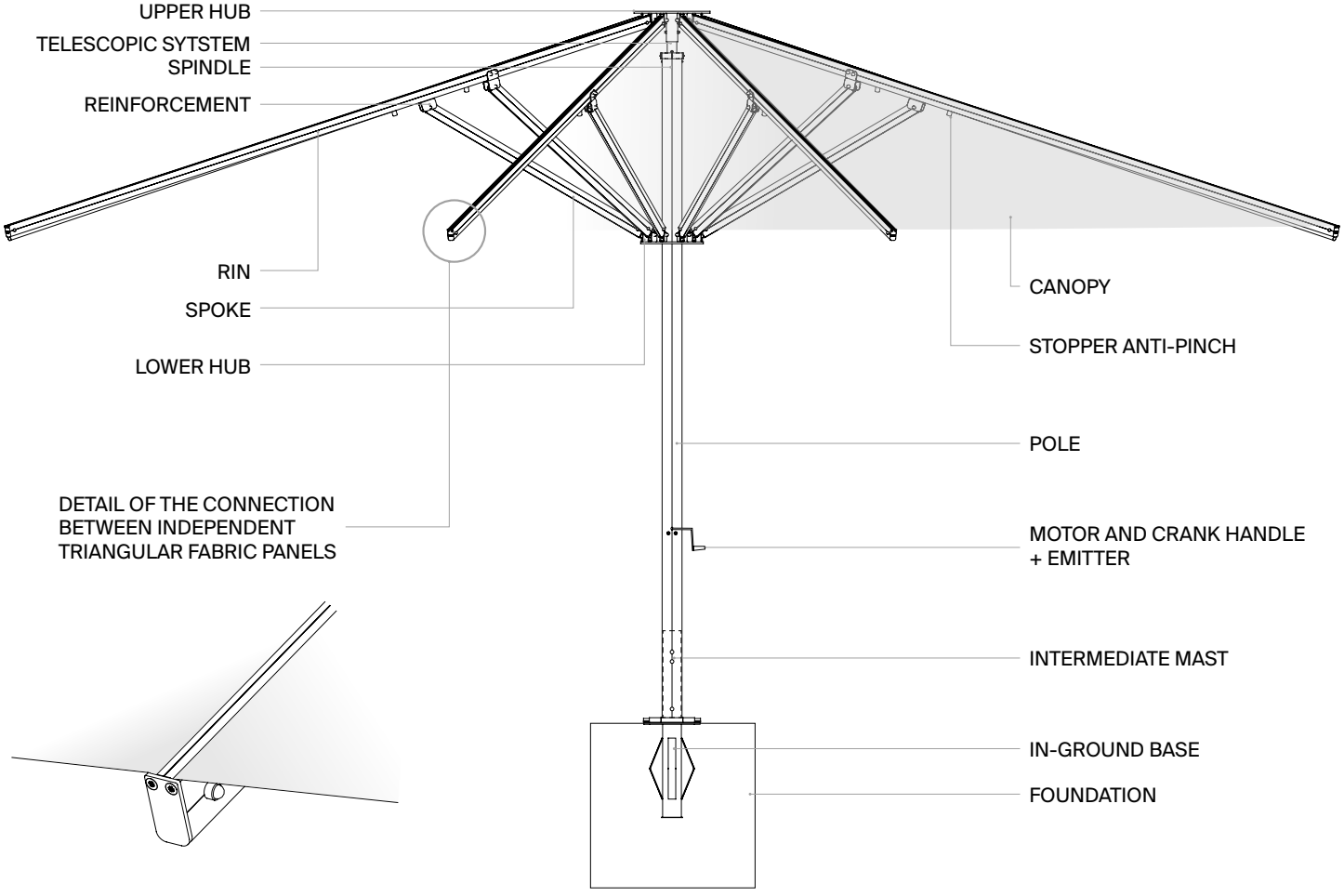
DESCRIPTION

Large parasol designed to cover wide areas of up to 56 m².
Frame composed of reinforced rods and ribs connected to a square mast by two joint pieces. Equipped with an internal telescopic profile that raises the parasol as it closes.
Opening system available with manual crank or motorised operation.
The fabric canopy, made of independent triangular panels, is attached through the rods—at the top of the frame and at the ends of each arm.

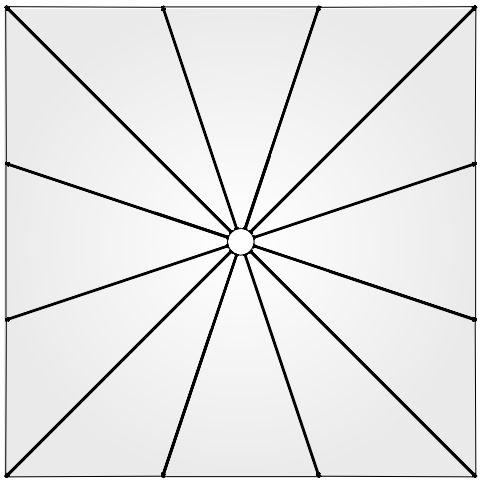
MATERIALS

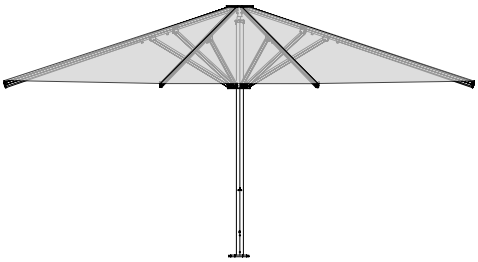
- Structure: Aluminium 6063-T5 profiles
- Screws: Stainless steel AISI 304 (Grade A2)
- Canopy membrane:
  - · Sauleda Acrylic – Force
  - · Sauleda Acrylic – Top-FR
  - · Sauleda Plastic – Vip-FR
  - · Sauleda Plastic – Port M1-FR

MAIN COMPONENTS



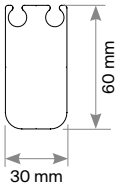
VIEWS



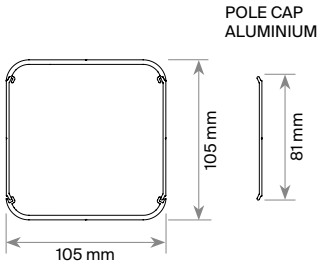


MAIN PROFILES

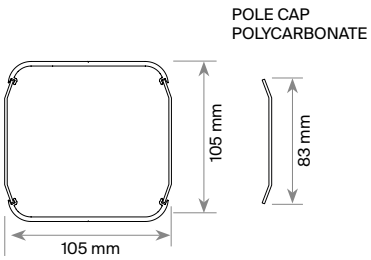
RIBS AND SPOKES



POLE WITHOUT LIGHTING



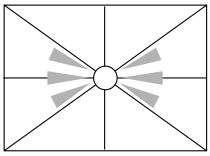
POLE WITH LIGHTING



LIGHTING ORIENTATION

FOR RECTANGULAR PARASOL

STANDARD



CUSTOMISED

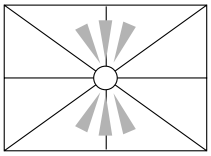
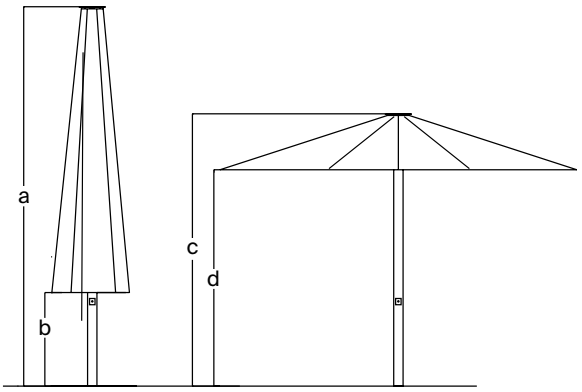
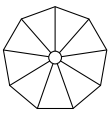
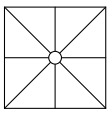
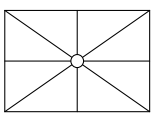


TABLE OF MEASUREMENTS



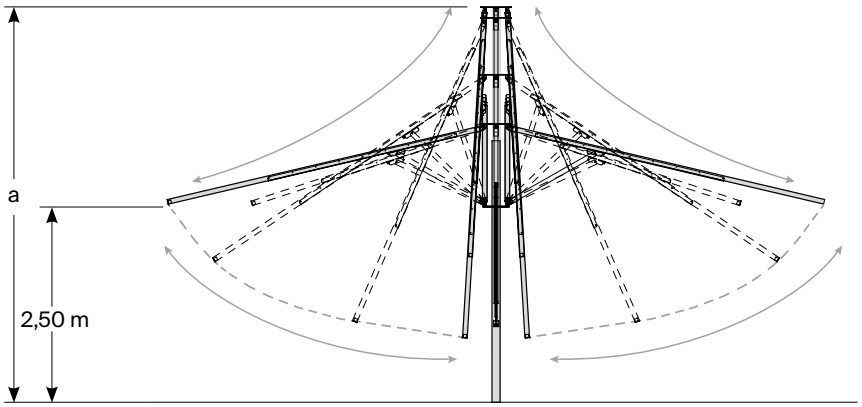
Model	Measures (m)	N° Ribs	a	b	c	d
	Ø 6,50	12 - 30 x 60,5	5,06	1,76	3,60	2,50
	Ø 7,00	12 - 30 x 60,5	5,30	1,20	3,68	2,50
	Ø 7,50	12 - 30 x 60,5	5,26	1,44	3,77	2,50
	Ø 8,00	12 - 30 x 60,5	5,30	1,22	3,84	2,50

Model	Measures (m)	N° Ribs	a	b	c	d
	6,0 x 6,0	12 - 30 x 60,5	5,06	0,84	3,56	2,50
	6,5 x 6,5	12 - 30 x 60,5	5,26	0,65	3,64	2,50
	7,0 x 7,0	12 - 30 x 60,5	5,26	0,30	3,73	2,50

Model	Measures (m)	N° Ribs	a	b	c	d
	6,5 x 4,5	12 - 30 x 60,5	5,16	1,18	3,62	2,50
	6,5 x 5,0	12 - 30 x 60,5	5,06	0,94	3,63	2,50
	6,5 x 5,5	12 - 30 x 60,5	5,16	0,88	3,62	2,50
	6,5 x 6,0	12 - 30 x 60,5	5,06	0,63	3,63	2,50
	7,0 x 5,0	12 - 30 x 60,5	5,22	0,65	3,65	2,50
	7,0 x 5,5	12 - 30 x 60,5	5,16	0,70	3,62	2,50
	7,0 x 6,0	12 - 30 x 60,5	5,26	0,64	3,72	2,50
	7,0 x 6,5	12 - 30 x 60,5	5,24	0,45	3,70	2,50
	8,0 x 6,0	12 - 30 x 60,5	5,26	0,26	3,69	2,50
	8,0 x 7,0	12 - 30 x 60,5	5,38	0,06	3,72	2,50

JUSTIFICATION OF DIMENSIONS

The AZORES PLUS model features a telescopic opening system with a clearance height of 2.50 metres, as shown in the following diagram. These parameters mean that, when closing the parasol, the structure extends upwards (a).



LOADS

The wind load is classified according to UNE EN 13561, as indicated in the table. Consequently, the maximum wind speed that the Azores Plus parasol can withstand is 50–61 km/h, equivalent to level 7 on the Beaufort scale.

The calculation has been made considering a fixed anchoring to the ground (see page 06 – Foundation Tables).

Snow load is not considered.

The calculation has been carried out in accordance with the following standards:

- UNE EN 1999-1-1 Eurocode 9: Design of aluminium structures
- UNE EN 13561 External blinds and awnings – Performance requirements including safety

CLASS	Grade Beaufort	Wind speed		Pressure	Environmental condition
1	0	0 - 1 km/h	0.0 - 0.3 m/s	0.05 N/m²	Calma
	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
2	4	20 - 28 km/h	5.6 - 7.8 m/s	37.81 N/m²	Moderate wind
3	5	29 - 38 km/h	8.1 - 10.6 m/s	69.64 N/m²	Fresh wind
4	6	39 - 49 km/h	10.9 - 13.6 m/s	115.79 N/m²	Strong wind
5	7	50 - 61 km/h	13.9 - 17.0 m/s	179.45 N/m²	Near gale
	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

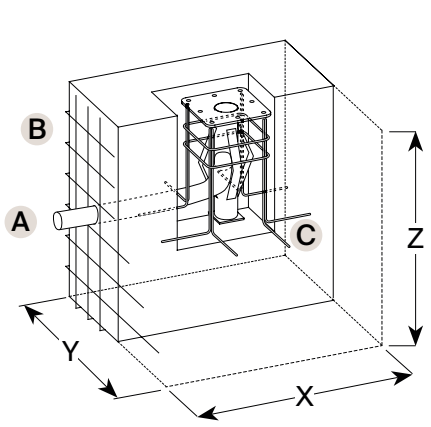
FOUNDATION TABLES

This anchoring must be an embedded ground system capable of withstanding maximum stress. Regarding the support elements, their dimensions are defined to ensure the parasol's necessary stability and to prevent uplift in case of wind suction, determined at a maximum of 50–61 km/h, equivalent to level 7 on the Beaufort scale.

- **A** CORRUGATED TUBE máx. Ø40
- **B** WELDED MESH ENCLOSURE
- **C** RIBBED ROD

- Concrete HA - 25
- Ribbed rod Ø8 mm
- Electrowelded mesh 150 x 150 mm with rod of Ø6 mm

In the case of anchoring with a concrete element, it should have minimum specified dimensions.



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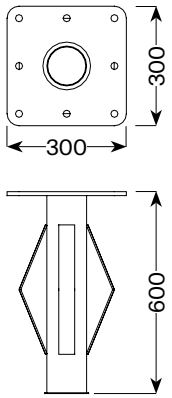


FOUNDATION (X, Y, Z)

	1,00 x 1,00 x 1,00 m	1,20 x 1,20 x 1,00 m	1,40 x 1,40 x 1,00 m
Ø 6,50	•		
Ø 7,00		•	
Ø 7,50		•	
Ø 8,00			•

	1,20 x 1,20 x 1,00 m	1,40 x 1,40 x 1,00 m
6,50 x 6,50	•	
7,00 x 7,00		•

	1,10 x 1,10 x 1,00 m	1,20 x 1,20 x 1,00 m	1,40 x 1,40 x 1,00 m	1,50 x 1,50 x 1,00 m
6,50 x 4,50	•			
6,50 x 5,00	•			
6,50 x 5,50		•		
6,50 x 6,00		•		
7,00 x 5,00		•		
7,00 x 5,50		•		
7,00 x 6,00			•	
7,00 x 6,50			•	
8,00 x 6,00				•

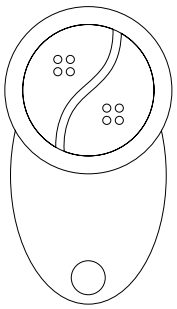
OPTIONS AND ACCESSORIES

- Pole lighting: 4 flexible 24V LED strips with dimmer and intensity regulator.
- Ribs lighting: 12 lighting points 24V with dimmer and intensity regulator.
- Heating kit
- Pre-installed audio wiring
- Valance
- Lighting valance
- Side curtains
- Joint rain gutter between parasols
- Telescopic cover with pole

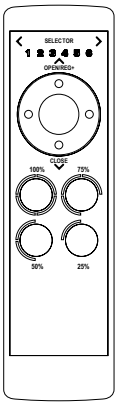
EMITTERS

CONTROL OF THE OPTIONS AND ACCESSORIES
OPTIONAL

EMITTER TXP	
Power supply	3V ± 10%
Lithium, battery	CR2430
Battery lifespan	>2 years
Protection rationg	IP20
Measures	86 x 86 x 9,5 mm
Operating temperature	-5° ~ 50 °C
Radio frequency	868 MHz
Operating range	100 m



EMITTER NOON	
Power supply	3V ± 10%
Lithium, battery	CR2430
Battery lifespan	>2 years
Protection rationg	IP20
Measures	125 x 40 x 10 mm
Operating temperature	-5° ~ 50 °C
Transmission power	10mW
Radio frequency	433,925 MHz
Operating range	35 m



LIGHTING CHARACTERISTICS

RIBS AND POLE LIGHTING
OPTIONAL

RIBS	SPOTS
Colour	Warm white
Colour temperature	3000K
Light output	110 lm typ. @ 350 mA
	145 lm typ. @ 500 mA
	180 lm typ. @ 700 mA
Beam angle	60° (full width full view)
Safety class	Class III
Power supply	350 mA
	500 mA
	700 mA
Power output	1,1 W @ 350 mA
	1,65 W @ 500 mA
	2,3 W @ 700 mA
Protection rating	IP54
Cut out	Ø 22 mm

POLE	LED STRIP
Colour	Warm white
Colour temperature	2700°K
Consumption	4,8W/m
Voltage	24V
Protection rating	IP 64
Adjustable	Yes

ENGINE CHARACTERISTICS

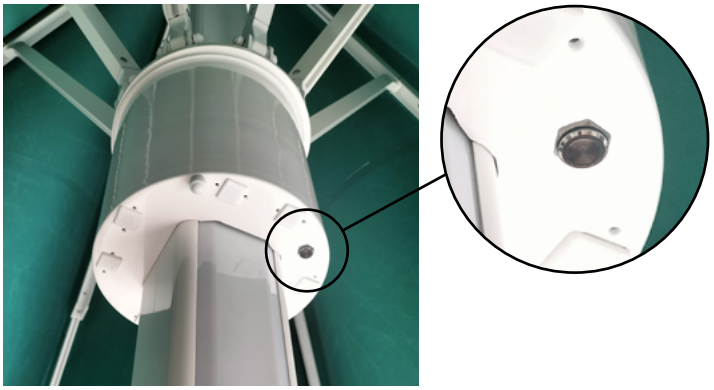
OPTIONAL

CHARACTERISTICS	
Construction	Tubular, without vent
Power	140 W
Power supply	24V

Pn [W]	V [V]	I [A]	IP	Kg
140	24	8,4	66	2.7

EMERGENCY SAFETY

In the base plate of the parasol there is a switch that cuts off the motor power supply. In case of emergency, if the parasol loses power, the user can press this switch, which will disconnect the motor and allow it to be unlocked in order to open or close the parasol manually until electrical power is restored.



MAINTENANCE

The AZORES PLUS parasol is a unique product in which the construction solutions and materials used are of the highest quality, offering maximum durability. Consequently, routine maintenance is minimal, allowing you to keep it in perfect working condition and with an appealing aesthetic with only a few interventions. Below are some simple rules to follow.

CANOPY
Fabric maintenance is limited to cleaning. To keep the exposed area looking new, clean it two or three times a year to prevent dust or pollution from settling on the fabric due to sun exposure.

- PVC: Spray with water and neutral soap, wait a few minutes for the soap to act, then remove the dirt with a sponge without pressing. Repeat if necessary and rinse thoroughly with clean water.
- ACRYLIC: Dry cleaning.
- POLYESTER: Dry cleaning.

STRUCTURE
Clean aluminium with water and neutral soap.

ATTENTION
The main function of the parasol is to reduce the impact of sunlight; it does not provide 100% rain protection.

The offset parasol with lighting valance may develop wrinkles due to the asymmetrical distribution of the ribs required for the displacement of the mole.

We believe in the *elegance* of engineering.