

# IASO®

## Better Outside

TECHNICAL DATA SHEET

ENGLISH

PARASOLS

SPECIAL COLLECTION

AZORES  
AZORES D



|              |          |                                       |
|--------------|----------|---------------------------------------|
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# DESCRIPTION

ChatGPT

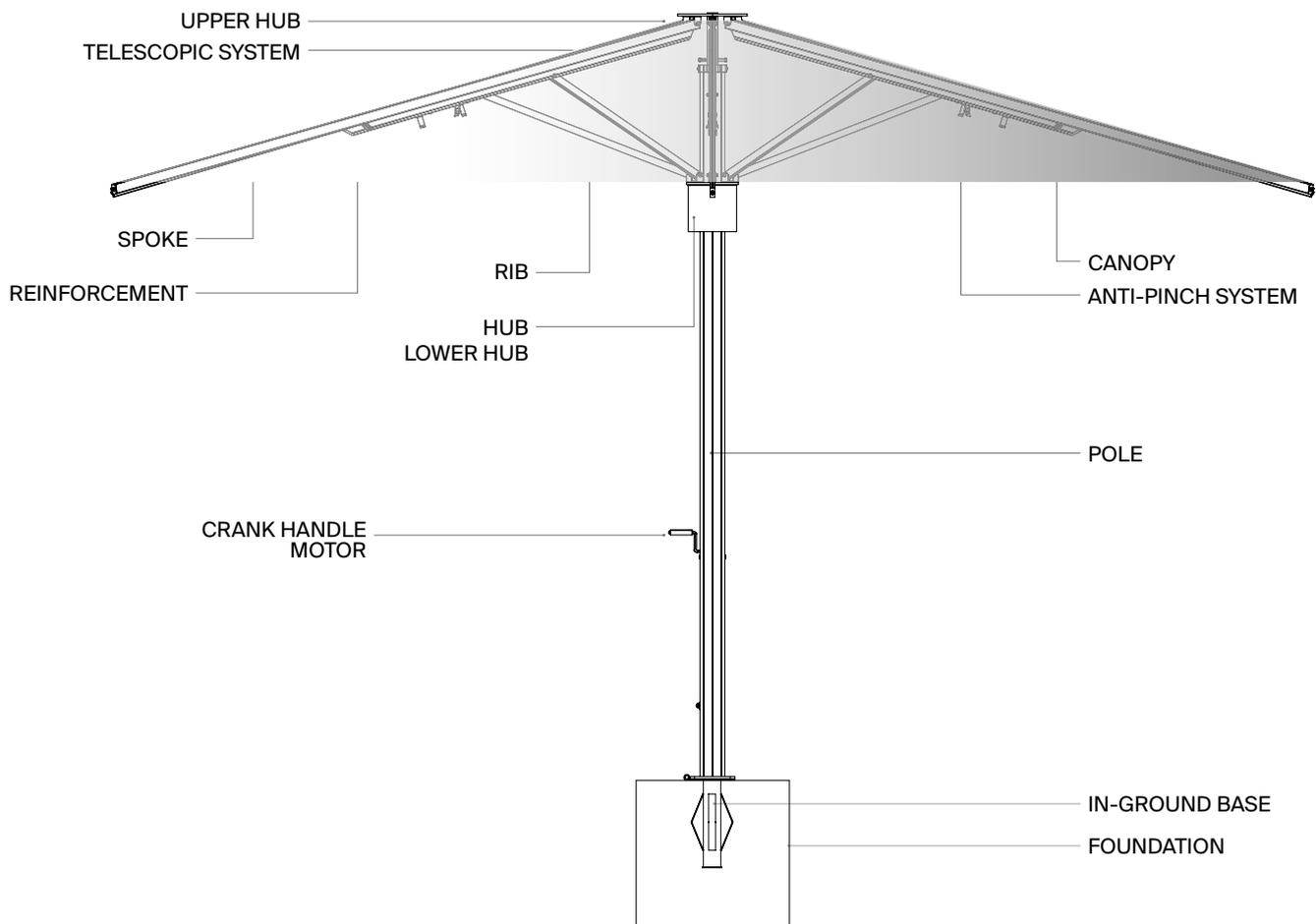
Plus

Large-scale parasol designed to cover extensive areas of up to 36 m<sup>2</sup>. The frame is composed of ribs and spokes connected to a square pole through two joint pieces. Inside, a telescopic profile raises the parasol as it closes. Opening system available with manual crank or motorised operation. The fabric canopy, made from a single piece, is fixed to the top of the frame and the ends of the ribs.

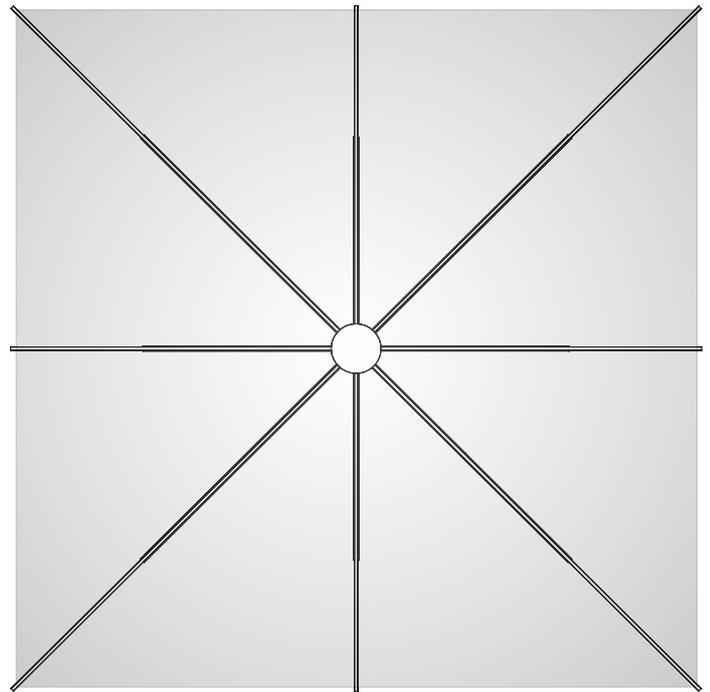
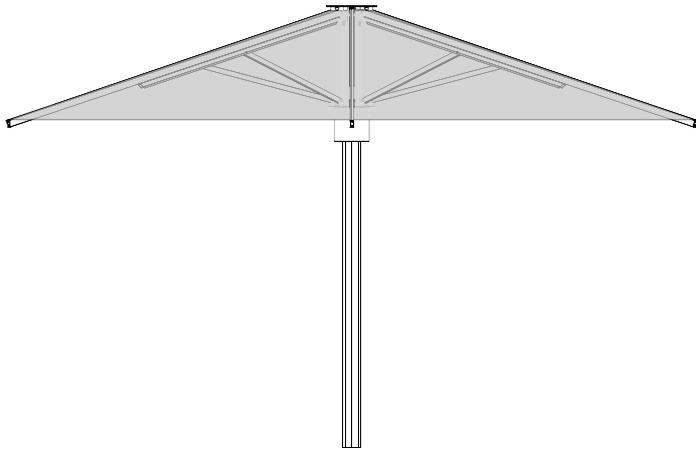
# MATERIALS

- Structure: Aluminium 6063-T5 / 6060-T5 profiles
- Screws and fittings: Stainless steel AISI 304 (A4 grade)
- Textile canopy membrane:
  - Sauleda Acrylic – Force
  - Sauleda Acrylic – Top-FR
  - Sauleda PVC – Vip-FR
  - Sauleda PVC – Port M1-FR

# MAIN COMPONENTS

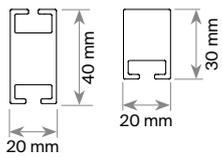


# VIEWS

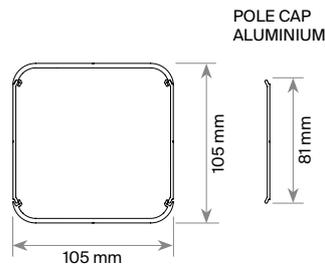


# MAIN PROFILES

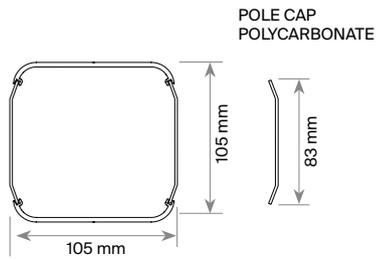
## RIBS AND SPOKES



## POLE WITHOUT LIGHTING



## POLE WITH LIGHTING

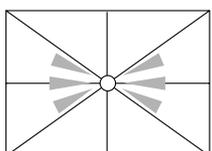


# LIGHTING ORIENTATION

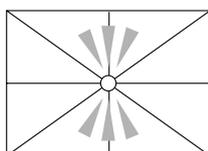
## FOR RECTANGULAR PARASOL

### AZORES

#### STANDARD

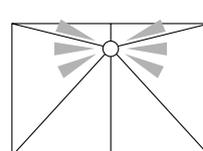


#### CUSTOMISED

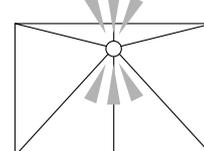


### AZORES D

#### STANDARD

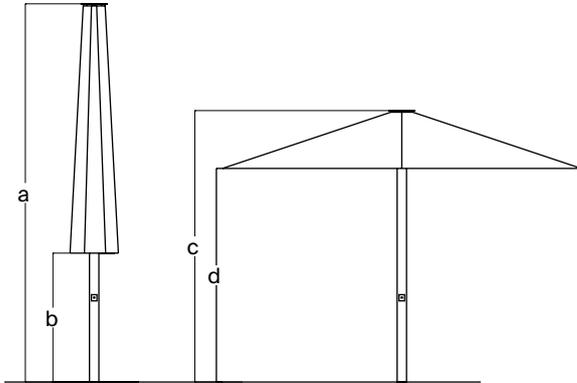


#### CUSTOMISED

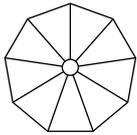


# TABLE OF MEASUREMENTS

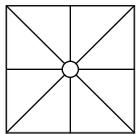
## AZORES



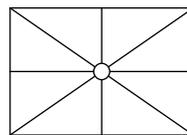
| Model | Measures (m) | Nº Ribs      | a    | b    | c    | d    |
|-------|--------------|--------------|------|------|------|------|
|       | 3,50         | 8 - 20 x 40  | 4,18 | 2,41 | 2,98 | 2,40 |
|       | 4,00         | 8 - 20 x 40  | 4,26 | 2,23 | 3,06 | 2,40 |
|       | 4,50         | 8 - 20 x 40  | 4,35 | 2,06 | 3,15 | 2,40 |
|       | 5,00         | 8 - 20 x 40  | 4,40 | 1,85 | 3,23 | 2,40 |
|       | 5,50         | 8 - 20 x 40  | 4,50 | 1,68 | 3,30 | 2,40 |
|       | 6,00         | 12 - 20 x 40 | 4,57 | 1,50 | 3,38 | 2,40 |



| Modelo | Measures (m) | Nº Ribs      | a    | b    | c    | d    |
|--------|--------------|--------------|------|------|------|------|
|        | 2,5x2,5      | 8 - 20 x 40  | 4,00 | 2,28 | 2,80 | 2,40 |
|        | 3,0x3,0      | 8 - 20 x 40  | 4,13 | 2,02 | 2,93 | 2,40 |
|        | 3,5x3,5      | 8 - 20 x 40  | 4,19 | 1,71 | 2,96 | 2,40 |
|        | 4,0x4,0      | 8 - 20 x 40  | 4,28 | 1,45 | 3,08 | 2,40 |
|        | 4,5x4,5      | 8 - 20 x 40  | 4,34 | 1,16 | 3,15 | 2,40 |
|        | 5,0x5,0      | 8 - 20 x 40  | 4,41 | 0,86 | 3,14 | 2,40 |
|        | 5,5x5,5      | 8 - 20 x 40  | 4,49 | 0,60 | 3,30 | 2,40 |
|        | 6,0x6,0      | 12 - 20 x 40 | 4,81 | 0,54 | 3,41 | 2,40 |

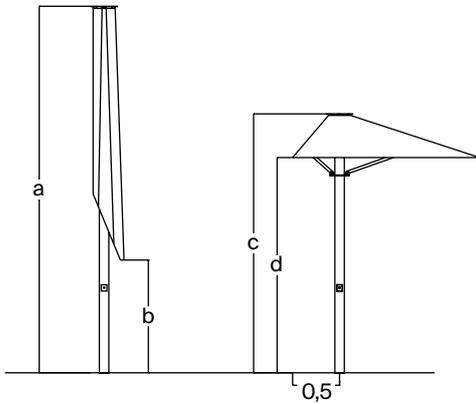


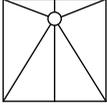
| Model | Measures (m) | Nº Ribs      | a    | b    | c    | d    |
|-------|--------------|--------------|------|------|------|------|
|       | 3,0x2,0      | 8 - 20 x 40  | 4,09 | 2,29 | 2,89 | 2,40 |
|       | 3,0x2,5      | 8 - 20 x 40  | 4,00 | 2,08 | 3,30 | 2,40 |
|       | 3,5x2,0      | 8 - 20 x 40  | 3,91 | 1,90 | 2,99 | 2,40 |
|       | 3,5x2,5      | 8 - 20 x 40  | 4,00 | 1,90 | 2,81 | 2,40 |
|       | 3,5x3,0      | 8 - 20 x 40  | 4,18 | 1,88 | 2,98 | 2,40 |
|       | 4,0x2,0      | 8 - 20 x 40  | 4,29 | 2,04 | 3,09 | 2,40 |
|       | 4,0x2,5      | 8 - 20 x 40  | 4,28 | 1,92 | 3,08 | 2,40 |
|       | 4,0x3,0      | 8 - 20 x 40  | 4,41 | 1,86 | 3,21 | 2,40 |
|       | 4,0x3,5      | 8 - 20 x 40  | 4,26 | 1,61 | 3,56 | 2,40 |
|       | 4,5x2,5      | 8 - 20 x 40  | 4,17 | 1,63 | 2,97 | 2,40 |
|       | 4,5x3,0      | 8 - 20 x 40  | 4,09 | 1,41 | 2,90 | 2,40 |
|       | 4,5x3,5      | 8 - 20 x 40  | 4,16 | 1,33 | 2,96 | 2,40 |
|       | 4,5x4,0      | 8 - 20 x 40  | 4,34 | 1,32 | 3,14 | 2,40 |
|       | 5,0x2,5      | 8 - 20 x 40  | 4,41 | 1,57 | 3,17 | 2,40 |
|       | 5,0x3,0      | 8 - 20 x 40  | 4,43 | 1,49 | 3,24 | 2,40 |
|       | 5,0x3,5      | 8 - 20 x 40  | 4,44 | 1,36 | 3,24 | 2,40 |
|       | 5,0x4,0      | 8 - 20 x 40  | 4,43 | 1,22 | 3,24 | 2,40 |
|       | 5,0x4,5      | 8 - 20 x 40  | 4,43 | 1,05 | 3,23 | 2,40 |
|       | 5,5x3,0      | 8 - 20 x 40  | 4,50 | 1,32 | 3,30 | 2,40 |
|       | 5,5x3,5      | 8 - 20 x 40  | 4,50 | 1,20 | 3,30 | 2,40 |
|       | 5,5x4,0      | 8 - 20 x 40  | 4,50 | 1,05 | 3,30 | 2,40 |
|       | 5,5x4,5      | 8 - 20 x 40  | 4,44 | 0,85 | 3,32 | 2,40 |
|       | 5,5x5,0      | 8 - 20 x 40  | 4,50 | 0,75 | 3,32 | 2,40 |
|       | 6,0x3,0      | 10 - 20 x 40 | 4,61 | 1,22 | 3,40 | 2,40 |
|       | 6,0x3,5      | 10 - 20 x 40 | 4,63 | 1,10 | 3,46 | 2,40 |
|       | 6,0x4,0      | 10 - 20 x 40 | 4,66 | 0,98 | 3,46 | 2,40 |
|       | 6,0x4,5      | 10 - 20 x 40 | 4,66 | 0,83 | 3,46 | 2,40 |
|       | 6,0x5,0      | 12 - 20 x 40 | 4,58 | 0,70 | 3,18 | 2,40 |
|       | 6,0x5,5      | 12 - 20 x 40 | 4,77 | 0,67 | 3,40 | 2,40 |

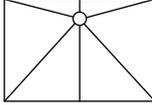


# TABLE OF MEASUREMENTS

## AZORES D

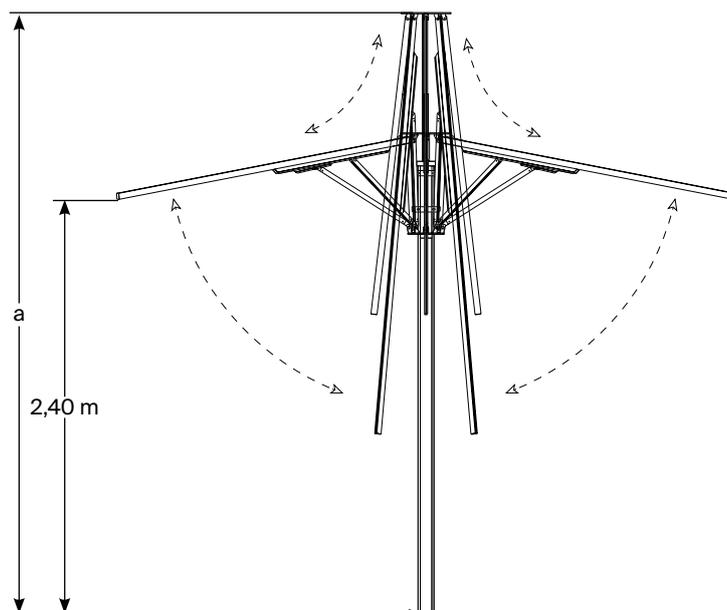


| Model  | Measures (m) | N° Ribs     | a    | b    | c    | d    |
|--|--------------|-------------|------|------|------|------|
|  | 2,0x2,0      | 6 - 20 x 40 | 4,09 | 2,30 | 2,90 | 2,40 |
|  | 2,5x2,5      | 6 - 20 x 40 | 4,25 | 1,88 | 3,05 | 2,40 |
|  | 3,0x3,0      | 6 - 20 x 40 | 4,25 | 1,31 | 3,23 | 2,40 |
|  | 3,5x3,5      | 6 - 20 x 40 | 4,59 | 1,07 | 3,40 | 2,40 |

| Model   | Measures (m) | N° Ribs     | a    | b    | c    | d    |
|---|--------------|-------------|------|------|------|------|
|  | 2,0x2,5      | 6 - 20 x 40 | 4,25 | 2,22 | 3,05 | 2,40 |
|   | 2,5x2,0      | 6 - 20 x 40 | 3,99 | 2,06 | 2,80 | 2,40 |
|   | 3,0x1,5      | 6 - 20 x 40 | 4,09 | 2,25 | 2,77 | 2,40 |
|   | 3,0x2,0      | 6 - 20 x 40 | 4,09 | 1,98 | 2,89 | 2,40 |
|   | 3,0x2,5      | 6 - 20 x 40 | 4,25 | 1,75 | 3,05 | 2,40 |
|   | 3,5x2,0      | 6 - 20 x 40 | 4,09 | 1,80 | 2,89 | 2,40 |
|   | 3,5x2,5      | 6 - 20 x 40 | 4,26 | 1,62 | 3,09 | 2,40 |
|   | 3,5x3,0      | 6 - 20 x 40 | 4,41 | 1,35 | 3,21 | 2,40 |
|   | 4,0x2,0      | 6 - 20 x 40 | 4,08 | 1,61 | 2,88 | 2,40 |
|   | 4,0x2,5      | 6 - 20 x 40 | 4,27 | 1,44 | 3,08 | 2,40 |
|   | 4,0x3,0      | 6 - 20 x 40 | 4,41 | 1,18 | 3,21 | 2,40 |
|   | 4,0x3,5      | 6 - 20 x 40 | 4,58 | 0,92 | 3,37 | 2,40 |
|   | 4,5x2,0      | 6 - 20 x 40 | 4,16 | 1,49 | 2,90 | 2,40 |
|   | 4,5x2,5      | 6 - 20 x 40 | 4,27 | 1,27 | 3,06 | 2,40 |
|   | 4,5x3,0      | 6 - 20 x 40 | 4,41 | 1,03 | 3,21 | 2,40 |
|   | 4,5x3,5      | 6 - 20 x 40 | 4,59 | 0,80 | 3,38 | 2,40 |
|   | 5,0x2,0      | 6 - 20 x 40 | 4,13 | 1,25 | 2,91 | 2,40 |
|   | 5,0x2,5      | 6 - 20 x 40 | 4,26 | 1,08 | 3,06 | 2,40 |

# JUSTIFICATION OF DIMENSIONS

Los modelos AZORES y AZORES D tienen un sistema de apertura telescópica, con una altura de paso de 2,4 metros, tal y cómo se muestra en la siguiente figura. Estos parámetros implican que, al cierre del parasol, la estructura se prolongue en altura. (a)



AZORES

# CHARGES

La carga de viento se clasifica según la UNE EN 13561, tal cómo se indica en la tabla. Por consiguiente, la velocidad máxima de viento que puede soportar el parasol modelo Azores y Azores D, es de 50 - 61 km/h, equivalente al grado 7 de la escala Beaufort, hasta medida del parasol 5x5 m.

El calculo se ha realizado contemplando un anclaje solidario al suelo (ver pág. 07 Tablas de Cimentación).

No se contempla la sobrecarga de nieve.

El cálculo se ha realizado en base a las normas:

- UNE EN 1999-1-1 Eurocode 9: Design of aluminium structures
- UNE EN 13561 Persianas exteriores y toldos. Requisitos de prestaciones incluida la seguridad.

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

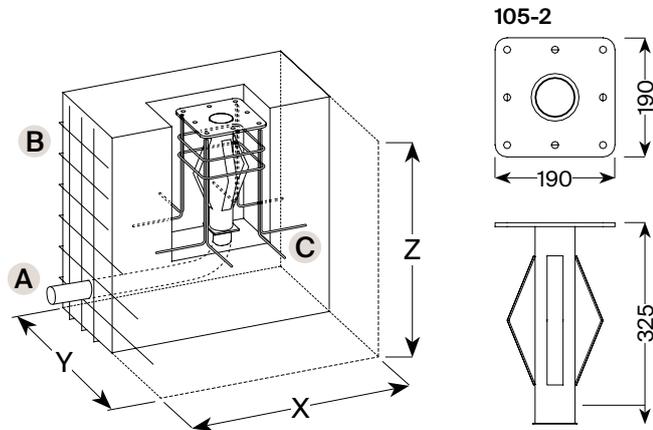
# FOUNDATION TABLES

This anchoring system must be embedded in the ground and capable of withstanding maximum loads. The dimensions of the supporting elements are determined to ensure the parasol's stability and to prevent lifting caused by wind suction, with a maximum resistance 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 con varilla de Ø6 mm

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



## FOUNDATIONS (X, Y, Z)



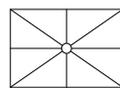
0,70 x 0,70 x 0,50 m    0,70 x 0,70 x 0,80 m    0,90 x 0,90 x 0,85 m

|        |   |   |   |
|--------|---|---|---|
| Ø 3,50 | • |   |   |
| Ø 4,00 | • |   |   |
| Ø 4,50 |   | • |   |
| Ø 5,00 |   |   | • |
| Ø 5,50 |   |   | • |
| Ø 6,00 |   |   | • |



0,70 x 0,70 x 0,50 m    0,70 x 0,70 x 0,80 m    0,90 x 0,90 x 0,85 m

|             |   |   |   |
|-------------|---|---|---|
| 2,50 x 2,50 | • |   |   |
| 3,00 x 3,00 |   | • |   |
| 3,50 x 3,50 |   | • |   |
| 4,00 x 4,00 |   |   | • |
| 4,50 x 4,50 |   |   | • |
| 5,00 x 5,00 |   |   | • |
| 5,50 x 5,50 |   |   | • |
| 6,00 x 6,00 |   |   | • |



0,70 x 0,70 x 0,50 m    0,70 x 0,70 x 0,80 m    0,90 x 0,90 x 0,85 m

|             |   |   |   |
|-------------|---|---|---|
| 3,00 x 2,00 | • |   |   |
| 3,00 x 2,50 |   | • |   |
| 3,50 x 2,00 |   | • |   |
| 3,50 x 2,50 | • |   |   |
| 3,50 x 3,00 |   | • |   |
| 4,00 x 2,00 |   | • |   |
| 4,00 x 2,50 |   |   | • |
| 4,00 x 3,00 |   |   | • |
| 4,00 x 3,50 |   |   | • |
| 4,50 x 2,50 |   |   | • |
| 4,50 x 3,00 |   |   | • |
| 4,50 x 3,50 |   |   | • |
| 4,50 x 4,00 |   |   | • |
| 5,00 x 2,50 |   |   | • |
| 5,00 x 3,00 |   |   | • |
| 5,00 x 3,50 |   |   | • |
| 5,00 x 4,00 |   |   | • |
| 5,00 x 4,50 |   |   | • |
| 5,50 x 3,00 |   |   | • |
| 5,50 x 3,50 |   |   | • |
| 5,50 x 4,00 |   |   | • |
| 5,50 x 4,50 |   |   | • |
| 5,50 x 5,00 |   |   | • |
| 6,00 x 3,00 |   |   | • |
| 6,00 x 3,50 |   |   | • |
| 6,00 x 4,00 |   |   | • |
| 6,00 x 4,50 |   |   | • |
| 6,00 x 5,00 |   |   | • |
| 6,00 x 5,50 |   |   | • |

# OPTIONS AND ACCESSORIES

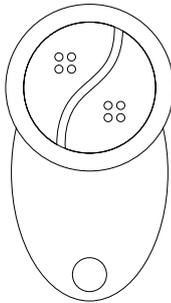
- Motorisation kit
- Rib lighting kit
- Pole lighting kit
- 12V portable battery for lighting
- Heating kit
- Pre-installed audio wiring
- Valance
- Lighting valance
- Side curtains
- Joint rain gutter between parasols
- Telescopic cover with pole

## EMITTERS

### CONTROL OF THE OPTIONS AND ACCESSORIES OPTIONAL

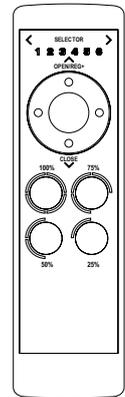
#### TRANSMITTER TXP

|                       |              |
|-----------------------|--------------|
| Power supply          | 3V ± 10%     |
| Lithium battery       | CR2430       |
| Battery lifespan      | >2 years     |
| Protection rating     | IP20         |
| Measures              | 86x86x9.5 mm |
| Operating temperature | -5°C~50 °C   |
| Radio frequency       | 868 MHz      |
| Operating range       | 100 m        |



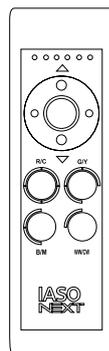
#### NOON TRANSMITTER

|                       |                  |
|-----------------------|------------------|
| Power supply          | 3V ± 10%         |
| Lithium battery       | CR2430           |
| Battery lifespan      | >2 years         |
| Protection rating     | 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             |



#### IASO NEXT HOME AUTOMATION

|                                      |                   |
|--------------------------------------|-------------------|
| Power supply                         | -10° / +55°C      |
| Reception frequency                  | 868,3 MHz         |
| Standby consumption                  | < 1W              |
| Typical consumption                  | < 2,5W            |
| Radio memory capacity (transmitters) | 20                |
| WiFi frequency                       | 2,4 GHz (b, g, n) |



# LIGHTING CHARACTERISTICS

## RIB AND POLE LIGHTING OPTIONAL

| RIBS               |            |
|--------------------|------------|
| Colour             | Warm white |
| Colour temperature | 2700°K     |
| Power              | 36W        |
| Protection rating  | IP 65      |
| Consumption        | 14,4W/m    |
| Voltage            | 12V        |
| Adjustable         | Yes        |

| POLE               |            |
|--------------------|------------|
| Colour             | Warm white |
| Colour temperature | 2700°K     |
| Power              | 80W        |
| Protection rating  | IP 65      |
| Consumption        | 8W/m       |
| Voltage            | 24V        |

# BATTERY CHARACTERISTICS

## RIB AND POLE LIGHTING OPTIONAL

- Output voltage: 12.6 V
- Equivalent capacity: 360 Wh
- Lithium-ion technology (>2,000 charge cycles)
- Safety charger for 220 V recharging included
- Approximate autonomy: 8 hours with all 4 lighting strips on
- Approximate charging time: 8 hours
- New Unified Locking and Connection System (ULCS)
- Built-in mechanical lock
- High-quality plastic casing
- IP53 (protection against rainwater)
- Dimensions: 14.5 cm x 6.5 cm x 9.5 cm
- Weight: 2 kg

# ENGINE CHARACTERISTICS

## OPTIONAL

| Characteristics |                       |
|-----------------|-----------------------|
| Construction    | Tubular, without vent |
| Power           | 100 W                 |
| Power supply    | 24 V                  |

| Pn<br>[W] | V<br>[V] | I<br>[A] | IP | Kg  |
|-----------|----------|----------|----|-----|
| 100       | 12       | 11.8     | 66 | 1.7 |

# MAINTENANCE

The AZORES parasol is a unique product in which the construction solutions and materials used are of the highest quality, offering maximum durability. As a result, regular maintenance is minimal, allowing you to keep it in perfect working condition and with a pleasant appearance through just a few simple steps. Below are a few basic guidelines to follow.

## CANOPY

Canopy maintenance consists mainly of cleaning. To keep the weather-exposed area looking like new, clean it 2 or 3 times a year to prevent dust or pollution from settling into the fabric due to sun exposure.

- PVC: Spray with water and neutral soap, wait a few minutes for the soap to act, and then use a sponge to remove the dirt without applying pressure. Repeat the process if necessary and rinse thoroughly with plenty of water.
- ACRYLIC: Dry clean only
- POLYESTER: Dry clean only

## STRUCTURE

Clean the aluminium parts using water and neutral soap.

## ATTENTION

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

The offset parasol with a valance may develop wrinkles due to the asymmetric distribution of the ribs required for the pole's displacement.



We believe in the *elegance* of engineering.