



# MISTRAL

***TEKNOVIND***



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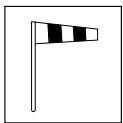


# MISTRAL

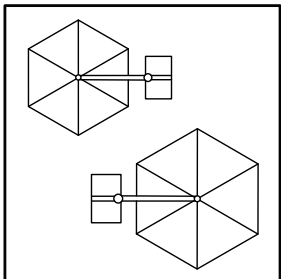
Side-arm parasol with six slats, ideal for large canopies; it is especially safe as it withstands winds blowing at 80 km/h.

The perfect solution for furnishing large outdoor spaces while leaving the space under the canopy free.

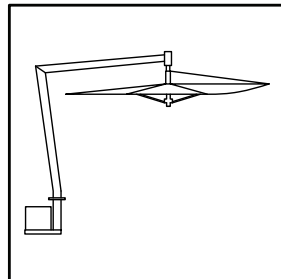
This model is particularly suitable for shading swimming pools, gardens and outdoor spaces of bars, restaurants, tourist farms and hospitality businesses in general. Our windproof system ensures maximum safety while maintaining the value of your investment over time.



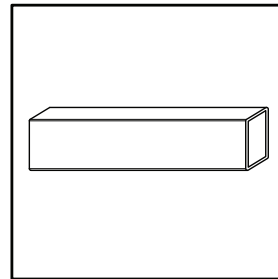
**Mistral 320 and Mistral 400 can withstand winds of up to 80 km/h if the ground anchoring or ballast instructions are followed.**



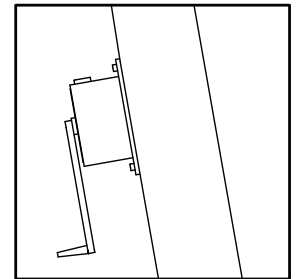
- Available in sizes 320 cm and 400 cm
- Hexagonal shape



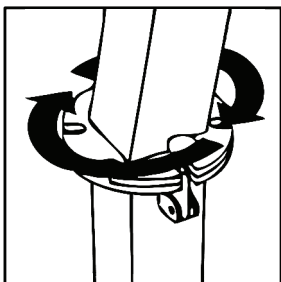
- Side pole Parasols



- Stainless steel slats



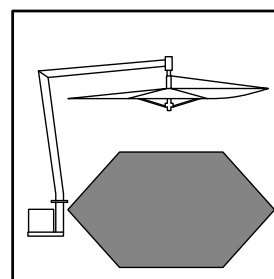
- Manual opening/closing system with self-braking winch



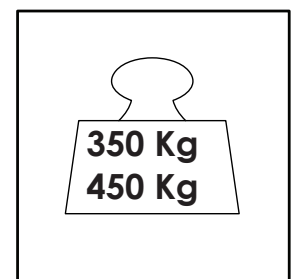
- 360° rotation with handles for quick attachment / release



- 100% mass-dyed acrylic fabric



- Projected shadow: 14 sqm



- Ballast required: 350 kg for the 320 mod. 450 kg for the 400 mod.

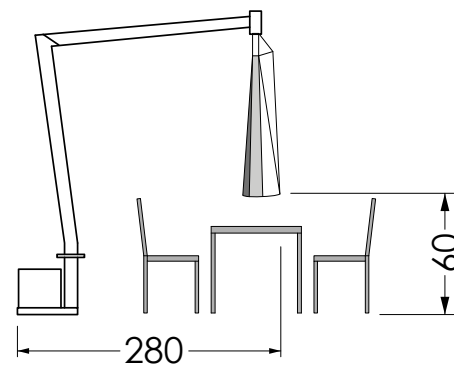
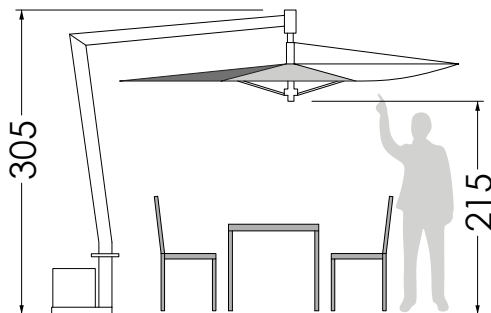
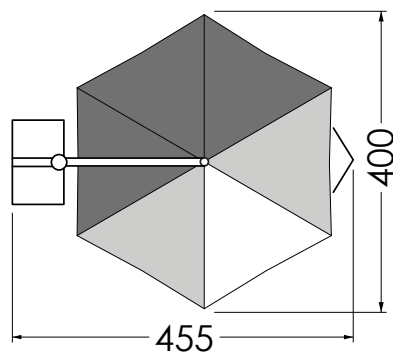
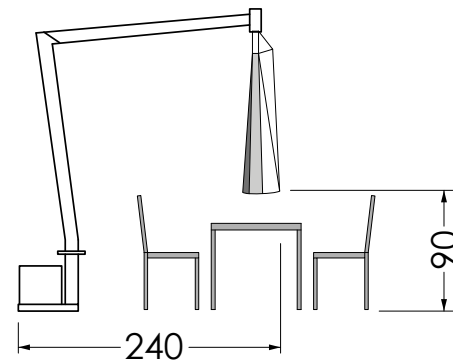
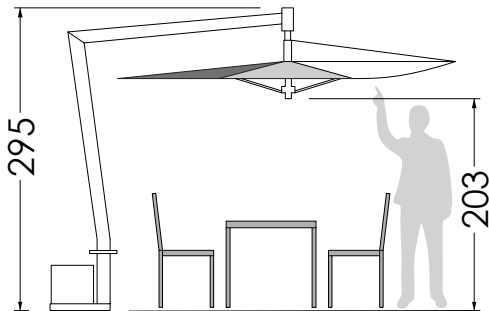
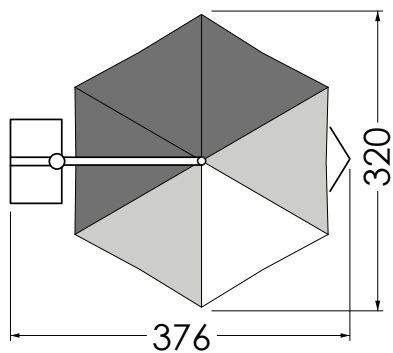
## OPTIONAL:

- PVC antifreeze case
- Fabric cover
- Cushions
- LED battery lights with remote control
- Customization of the covers with the name and logo of the company

## GOOD TO KNOW:

- Spare parts available
- Customized designs
- Designed and manufactured in Italy
- 2 year warranty
- Proprietary Teknowind patent
- Tested at the University of Perugia

## MEASUREMENTS:

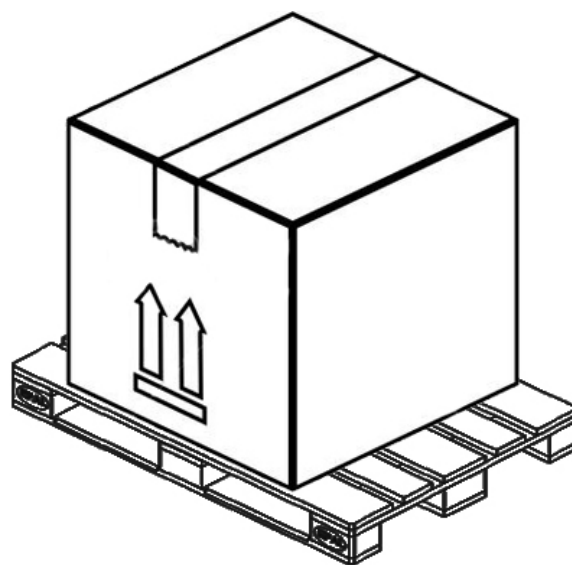
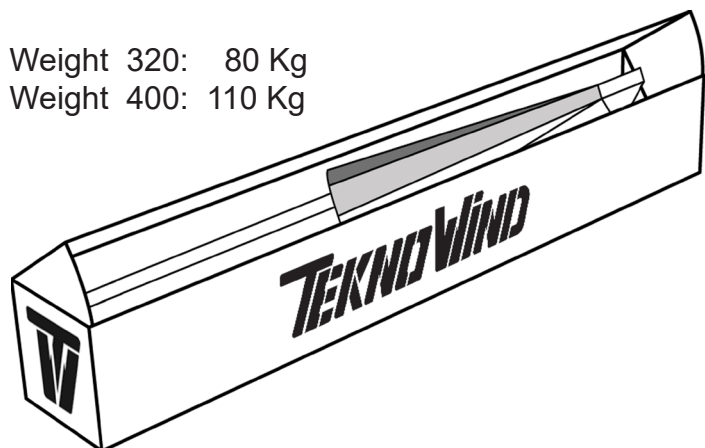


## PACKAGING:

Upon request, the umbrella is delivered in two separate cardboard packaging.

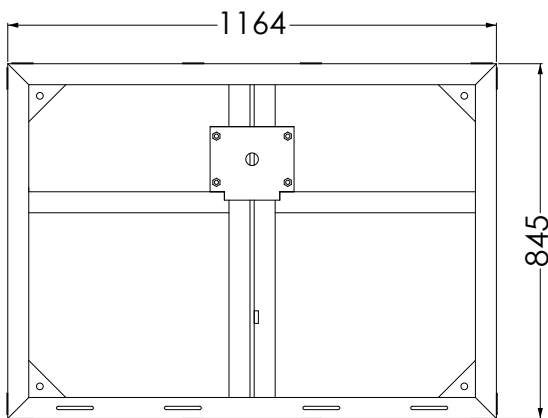
Dimensions: 50 x 50 x 190 Cm  
100 x 130 x 90 Cm

Weight 320: 80 Kg  
Weight 400: 110 Kg



## BASES AND FIXING SYSTEMS:

### STANDARD BASE:



117 x 85 x 5 cm steel base with its own casing to house the necessary ballast; 18 50 x 50 cm grit tiles for Mod. 320 and 22 tiles for Mod. 400.

The base consists of 50 x 50 mm steel tubes, 2 mm thick, on top of which the column (A) holding the vertical pole is fixed. To avoid unpleasant water stagnation and to increase the stability of the parasol even on smooth surfaces, the base is fitted with polyamide feet with non-slip rubber soles (B). Thanks to their threading, it is also possible to adjust the coplanarity with the ground.

The ballast is protected by removable press-bent steel casings; Teknowind cushions, which transform the casings into comfortable seats, can be purchased in combination. All the components of the base are galvanized and painted in the same color as the structure; thanks to the outdoor treatments to which they are subjected, Teknowind guarantees an excellent seal against all atmospheric agents.

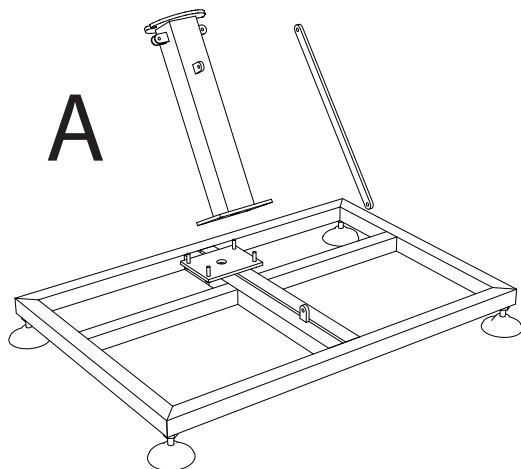
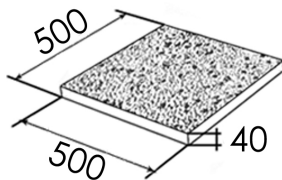
Ballast required:

Mod. Ø 320

18 Pz.

Mod. Ø 400

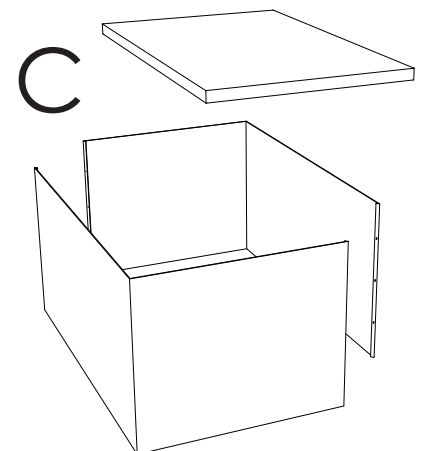
22 Pz.



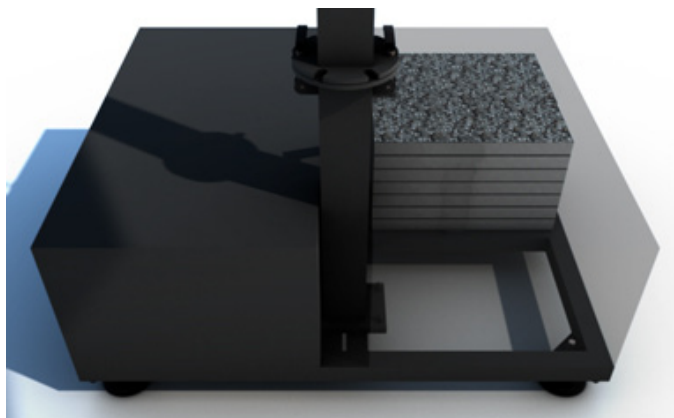
BALLAST CONTAINMENT



B



CUSHIONS



## MISTRAL 70 PLATE:

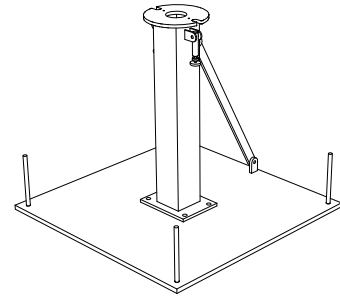
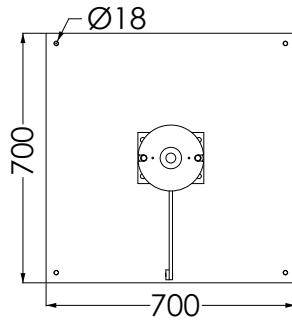
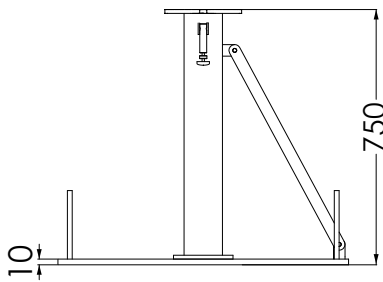
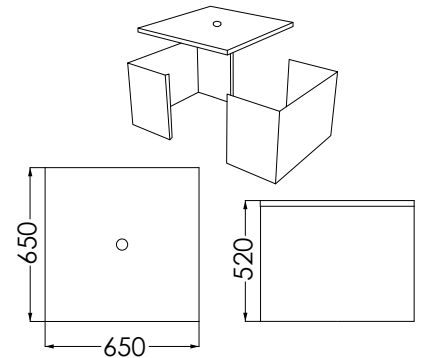
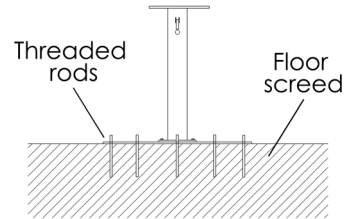
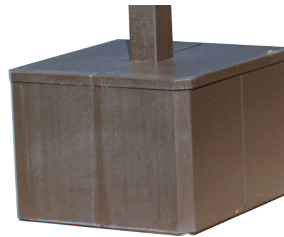


Plate 700 x 700 mm 10 mm thick in galvanized steel, painted to match the structure; it is the ideal base for optimizing space under the sunshade. This type of base involves ground anchoring with four threaded rods; it is recommended to locate a suitable ground; Teknowind recommends contacting experts for the anchoring.

To cover the plate, Teknowind offers a removable casing consisting of two half-shells and a cover.

With 520 mm height, it can be used as a support shelf or, combined with the cushion, as a comfortable seat.

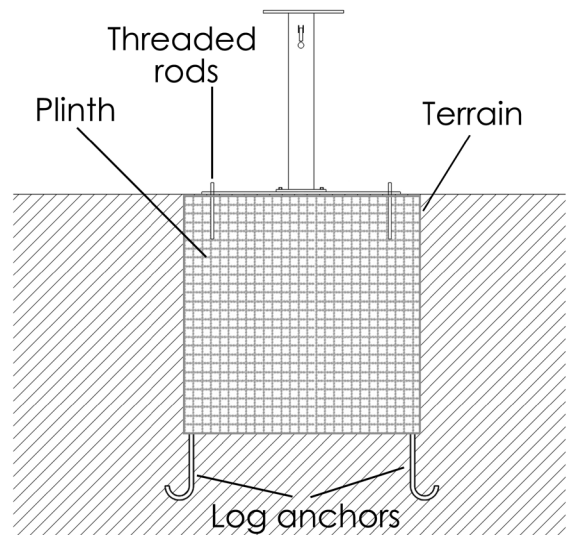
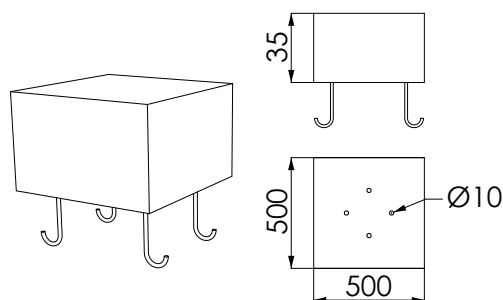
It is galvanized and painted to match the frame; thanks to the outdoor treatments it undergoes, it provides an excellent resistance to all weather conditions.



When used with a concrete slab provided with anchor bolts, the Mistral 70 plate can also be attached to soft terrain.

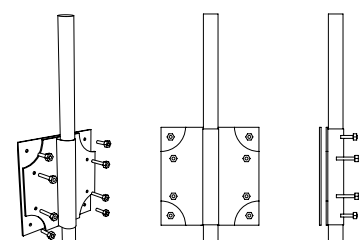
Teknowind recommends that customers bury the slabs which have a minimum size of 80 x 80 x 100 cm.

For particularly windy locations, the use of anchor bolts to secure the slab is recommended.



## CUSTOMIZATIONS:

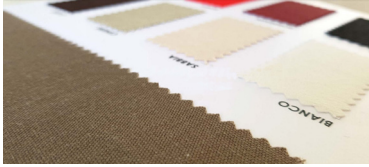
We study personalized solutions for anchoring systems and casing. (Minimum quantities required)





## MATERIALS:

## CANOPIES:



The canopies are exclusively manufactured from the highest quality fabrics 100% made in Italy.

Experience gained in the parasol sector has determined the choice of fabrics used: Acrilmare® and Acrilgiardino® are made from mass-dyed acrylic fiber and are the best on the market thanks to their absolutely

unique quality and weatherproof properties.

Both textiles are characterized by a high degree of color fastness to ensure that the parasols always look new year after year. Prolonged exposure to ultraviolet rays, iodine and salt water will no longer be a problem.

- 100% DOLAN® paste-dyed acrylic fiber
- Weight: 295 g/sqm
- Maximum UV protection: protects your skin by blocking over 97% of UV rays
- Optimum color resistance to direct light
- Color resistance to rubbing
- Swimming pool water resistance
- Dustproof, stain proof, anti-mould, antibacterial, water and oil repellent treatment
- Highest resistance to traction, laceration and tearing
- 100% Made in Italy



## MAINTENANCE:

Avoid extended contact with oily substances and/or dyes that could be absorbed by the fabric and cause permanent stains, as well as deteriorating the structure of the textile. If used in proximity to the sea or swimming pools, periodic washing is recommended.

## WASHING:

- Wash at 40°C
- Can be washed with bleach
- Iron at low temperatures

- Do not dry clean
- Can be tumble dried at low temperatures
- Dries quickly



## COLORS:



TAUPE



WHITE



SAND



ASH



COFFEE



BLACK



BURGUNDY



RED



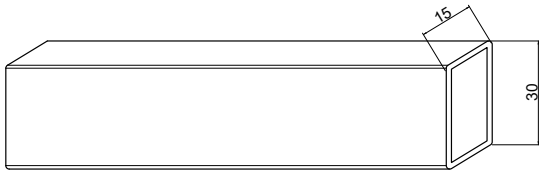
NAVY BLUE



GRAY

Colors may vary slightly. Please refer to the actual fabric before choosing.

## SLATS:



The slats and crossbars consist of 15 x 30 mm stainless tubes, 2 mm thick, powder coated.

## MAINTENANCE:

To keep the product in good condition for a long time, we recommend proper periodic cleaning, especially in locations with high humidity and marine climate. We recommend wiping surfaces with a soft cloth using water or mild detergents.

Prolonged and uninterrupted exposure to intense UV radiation or very cold temperatures can affect the properties of the coating. We recommend cleaning the products well and storing them in sheltered places during extended periods of non-use or during winter.

## PAINTING:

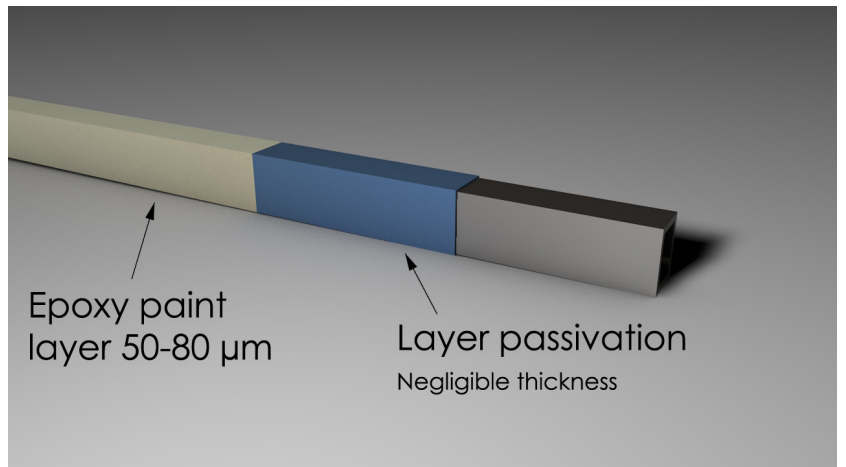
When painting stainless steel, Teknowind relies on experts in the field.

Powder coating is the most suitable treatment for outdoor furniture, as it has significant advantages over traditional liquid coating.

Thanks to the powder coating process, the surface is protected against corrosion and against chemical agents.

The process involves depositing through the action of an electrostatic field, thermosetting resins that are then melted and polymerized in special ovens in order to create a protective/decorative film.

In powder coating, the resins, which do not adhere to the treated surface and are dispersed into the coating environment, are recovered and reused, thus resulting in low pollution.



## COLORS:



WHITE



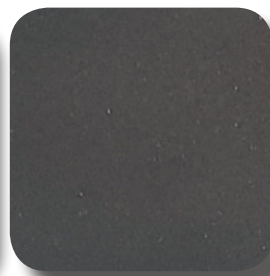
IVORY



INDIAN BROWN



CHARCOAL GRAY



BLACK

Colors may vary slightly. Please refer to the actual painting before choosing.

## STRUCTURE, BASE AND CASING:



MISTRAL parasol structures, bases and casings are entirely made of steel; all components are cold galvanized and powder coated.

## MAINTENANCE:

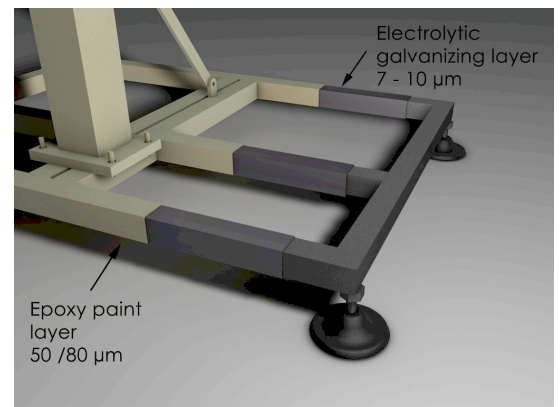
In order to keep the product in good condition for a long time, we recommend storing it during the winter in closed, dry places so as to avoid the formation of condensation. Before the winter season and on a quarterly basis, if products are stored near the sea, we recommend wiping metal surfaces with a soft cloth using water or detergents and protecting them with either Vaseline oil or car wax.

## TREATMENTS:

All steel parts, before painting, are subjected to electrolytic galvanizing to protect them from galvanic corrosion (rust). The material, before treatment, is pre-greased, pickled (stripped) and degreased. Immediately afterwards, the objects are immersed in an electrolytic solution containing zinc salts. Eventually, an electrical current is created between the workpiece and the solution, which causes the metallic zinc to be deposited on the surface of the workpiece. Once the protective treatment of the steel is completed, the various components are powder-coated.

The process involves depositing, through the action of an electrostatic field, thermosetting resins which are subsequently melted and hardened in special ovens in order to create a protective/decorative film.

In powder coating, the resins, which do not adhere to the treated surface and are dispersed into the coating environment, are recovered and reused, thus resulting in low pollution.



## COLORS:



WHITE



IVORY



INDIAN BROWN



CHARCOAL GRAY



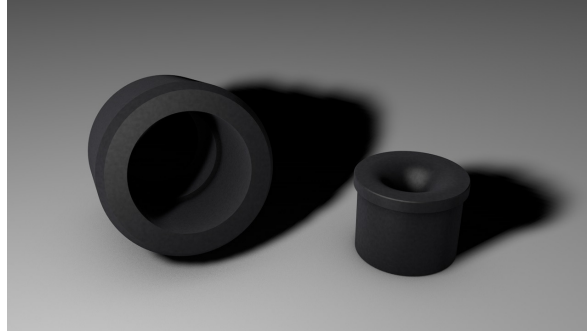
BLACK

Colors may vary slightly. Please refer to the actual painting before choosing.

## PLASTICS:



All plastic parts used in Boreas models, including the hubs, are made of black, high-density polyethylene. Polyethylene (HDPE) is a popular material; it possesses high resistance to chemicals and is resistant to water, saline solutions, acids, alkalis, alcohol and gasoline. Due to its resistance to temperatures ranging from - 40°C to + 80°C, UV rays and atmospheric and weather agents, HDPE is perfect for items that are constantly used outdoors. In addition, it has excellent shock resistance, and is extremely lightweight.



## MAINTENANCE:

Polyethylene requires no specific treatment. As for cleaning, simply use water and a mild detergent. Do not use solvents or solvent-based cleaners (avoid acetone). If necessary, allow the detergent to work for a few minutes. Rinse thoroughly with water.

## ASSEMBLY:

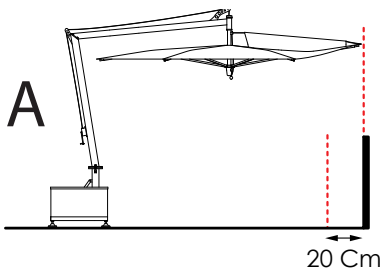
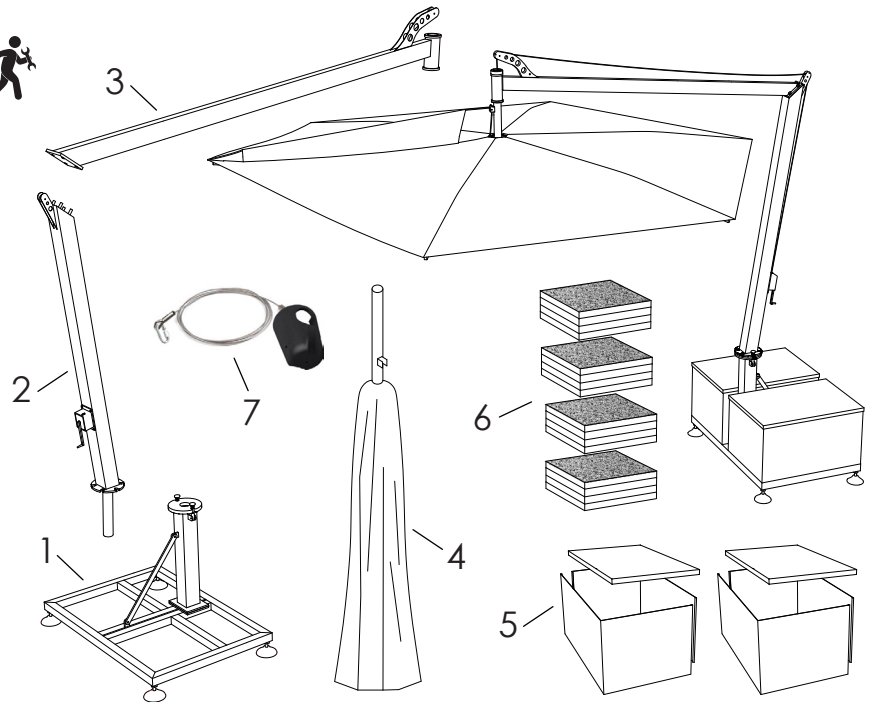


Two operators are required



Contents:

- 1 Base (see page 5 "bases and fixing systems")
- 2 Vertical pole 100 x 100 cm
- 3 Horizontal pole
- 4 Shade structure
- 5 Removable casings
- 6 50 x 50 cm Grit tiles
- 7 Cable with lifting end

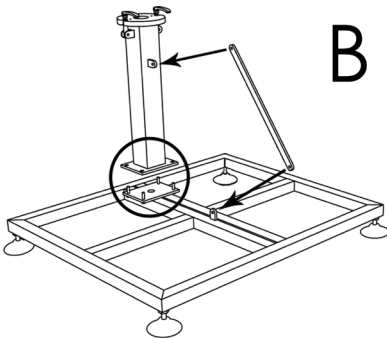


Find a suitable and safe place to place the parasol. Never place the parasol near open flames.

If the parasol is placed on a terrace, make sure that the floor slab has a suitable load-bearing capacity per square meter to support the necessary ballast and that the canopy does not protrude from the railing (A).

The ground must be suitable for the type of base (1) or fixing chosen (see list of "base and fixing systems" on page 4).

Once you have found a suitable location for the parasol, pre-assemble the base (B) and level it by adjusting the height of the legs (C).

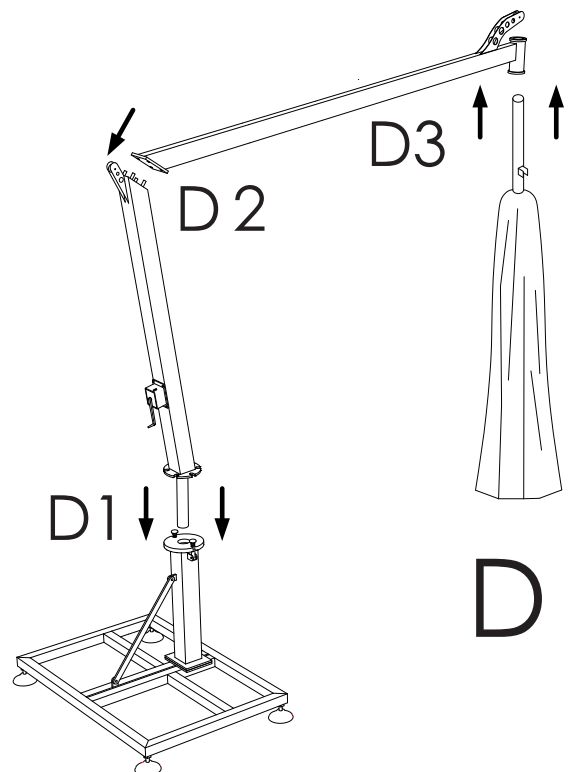
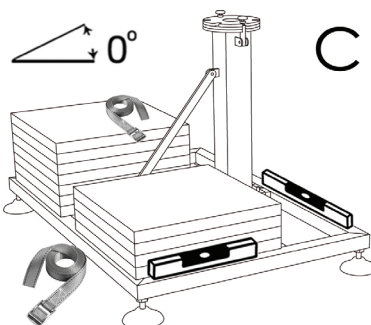


The base can now be secured into the ground or the ballast (6) can be positioned on the base; make sure to ballast the parasol correctly and to respect the indicated loads (350 kg for Mod. 320; 450 kg for Mod. 400);

stack the tiles correctly and fasten them down with the appropriate straps, otherwise the casings (5) cannot be used.

Insert the vertical pole tube (2) into the hole of the base column (1) and screw the rotation lock knobs (D1); position the horizontal pole (3) on the vertical pole (2) and screw the four nuts (D2).

You can now take the shade

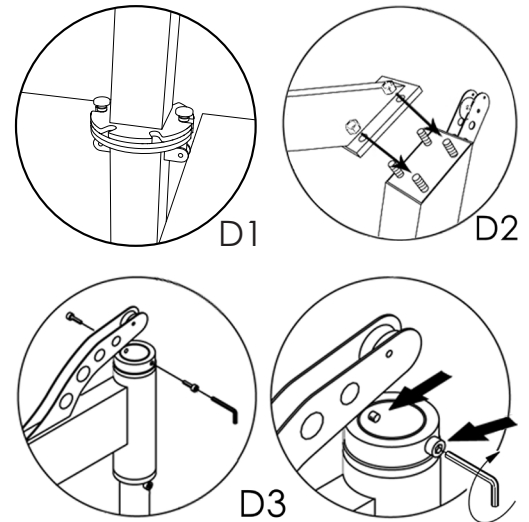


structure (4) and insert the stainless steel pivot tube into the socket at the end of the horizontal pole (3) and screw on the locking ring (D3).

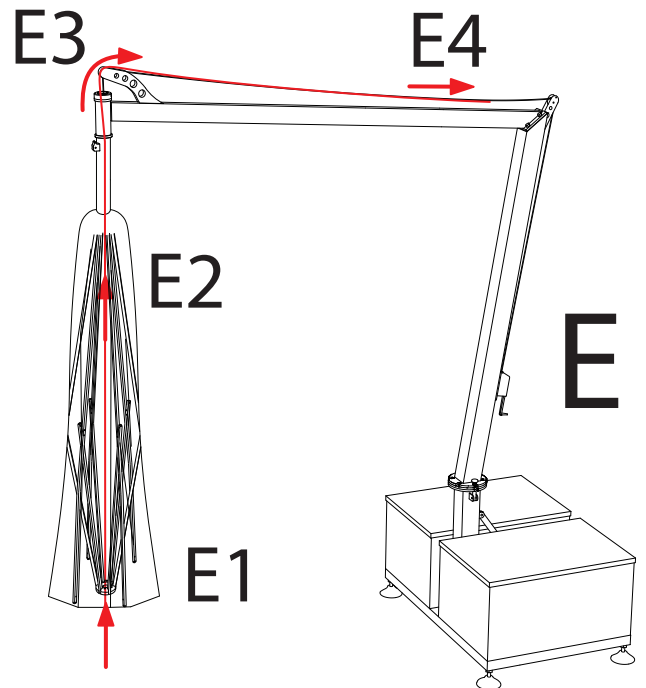
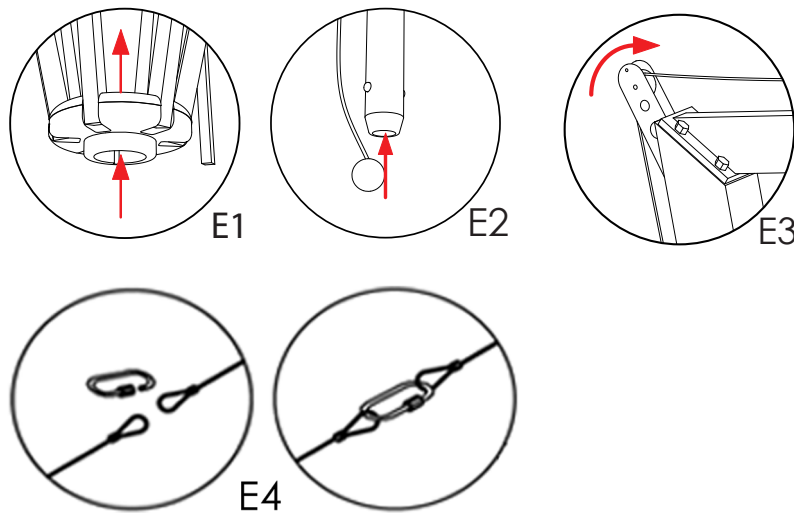
At this point, the parasol structure is ready, only the connection between the winch and the shade structure (E) is missing.

Take the stainless steel rope with the lifting end (7); pass the end of the rope with the snap hook first inside the mobile hub (E 1) and then inside the support tube (E 2).

Take the end of the rope with the snap hook at the exit of the support tube and wrap it around the pulley (E 3); in the meantime, loop the rope of the winch around the pulley of the vertical pole in the same way; now you can join the two ropes using the snap hook (E 4).

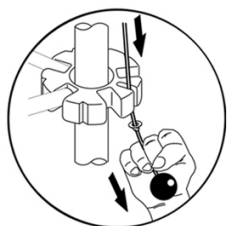


Your Teknowind Mistral parasol is now ready to be opened with the manual winch.

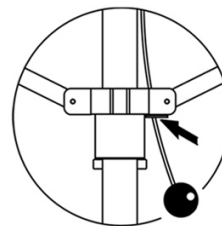


Once the parasol is open, it is recommended to turn the handle half a turn counterclockwise so that the rope is no longer under tension.

Remember that once the parasol is opened, to activate the windproof system, you need to pull the sail drawstring.



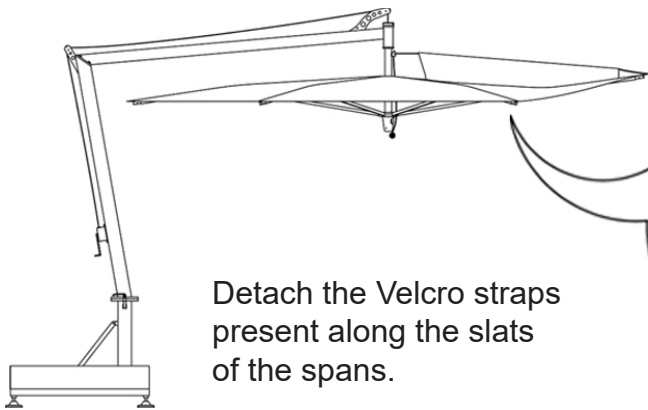
Pull down the drawstring to activate the patented Teknowind windproof system.



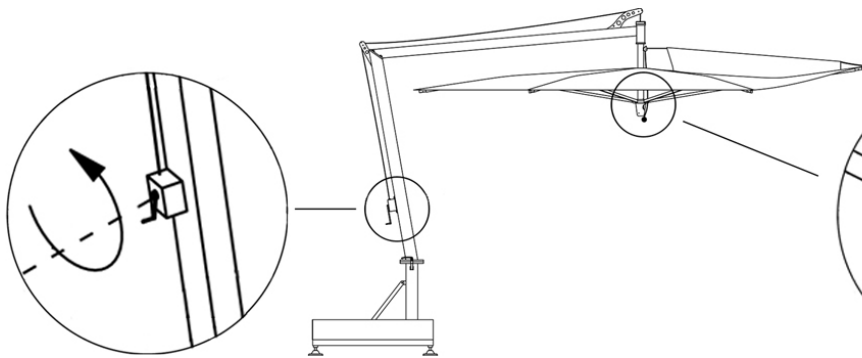
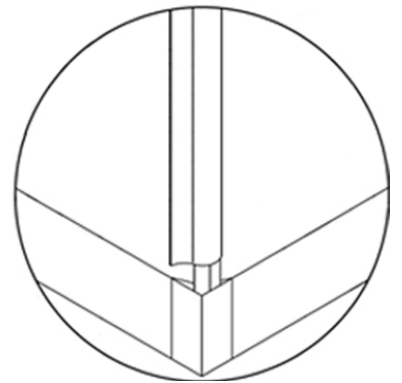
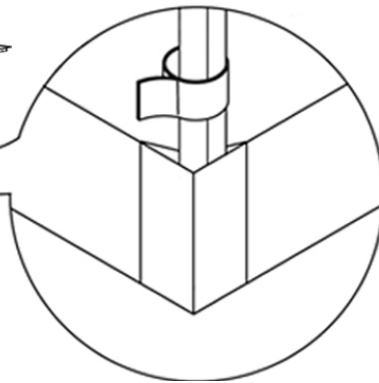
Lock the drawstring into position by inserting the ring into the appropriate slot.

# MISTRAL

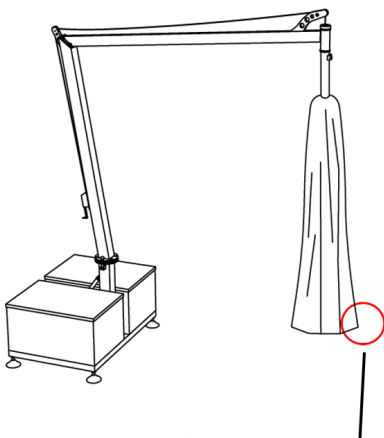
## INSTRUCTIONS FOR DISASSEMBLING THE CANOPY:



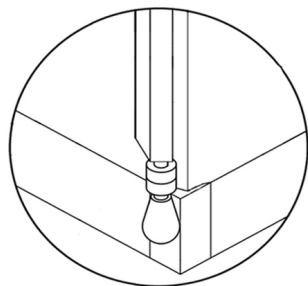
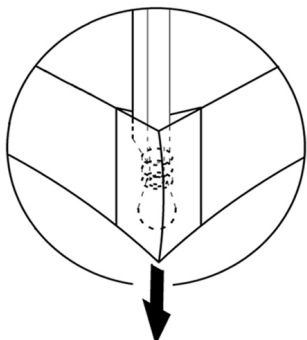
Detach the Velcro straps present along the slats of the spans.



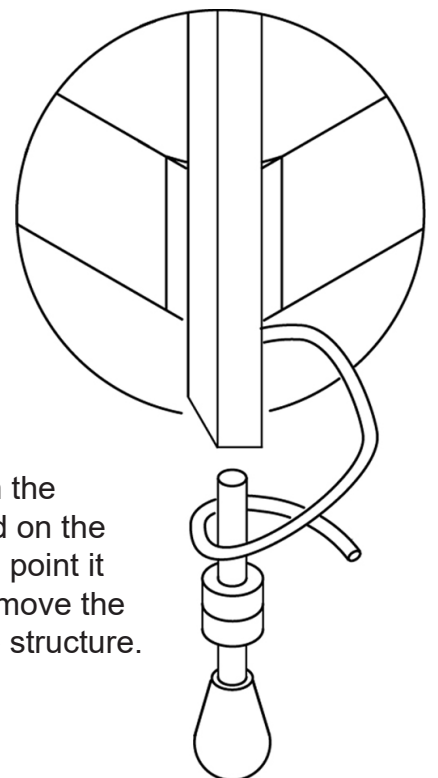
Deactivate the patented TEKNOWIND windproof system by releasing the drawstring and close the parasol by pressing the appropriate buttons.

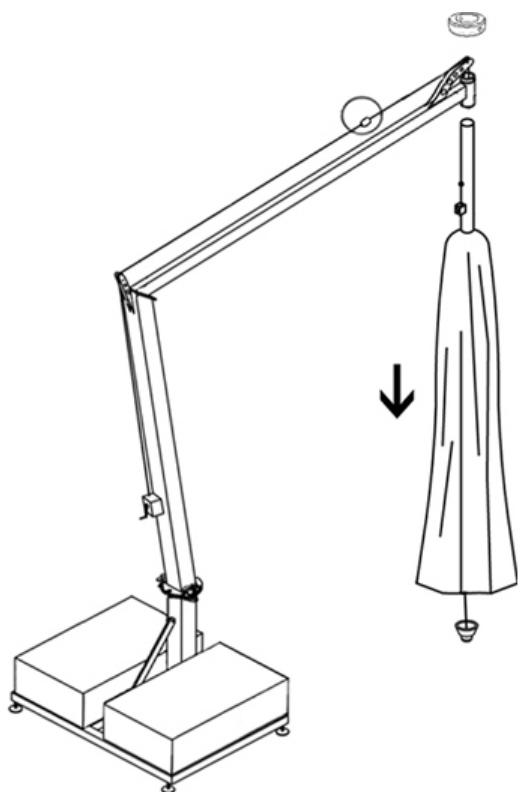


Pull the corners of the canopy down and pull the frame tips out of the holding pockets of the canopy.

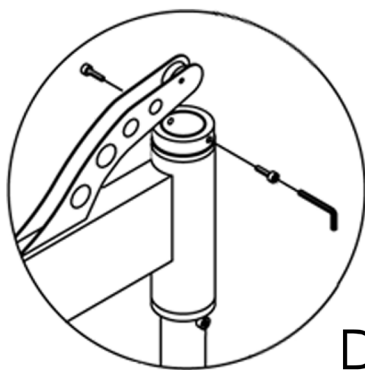


Untie the knot in the drawstring found on the sail span; at this point it is possible to remove the canopy from the structure.

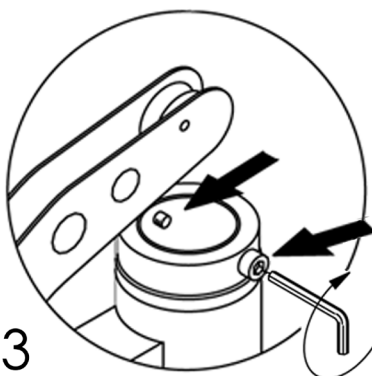




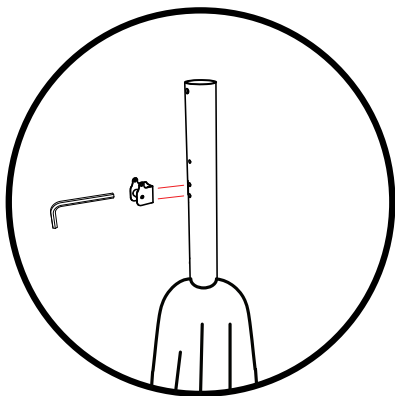
Disconnect the tip cable from the manual winch cable (1) by opening the snap hook.



D3



With the help of an operator holding the parasol closed, unscrew the ring on the pivot tube and remove the canopy structure from the side arm. At this point, it is possible to remove the parasol canopy from the structure.



Unscrew the two screws with an Allen key and remove the “grommet” (cord passage) plate.  
The canopy can now be removed from the structure.

Perform the reverse operations to assemble the canopy.







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## WARNINGS:

Before starting the opening procedure, make sure that the canopy of the parasol is not caught in the inner slats. To open or close parasols raise or lower the hub manually: improper handling can break the mechanism.

If the model has been equipped with pulley's opening system, never force the ropes, if there is a blockage, ascertain its origin and then remove the possible cause.

100% DOLAN® paste-dyed acrylic fiber: for washing and maintenance see directions in the "CANOPY" system. During the winter season it is recommended that the canopy be removed from the structure and stored completely dry.

Mechanical parts: treat with Vaseline oil once each year before winter. Close the parasols during bad weather conditions such as wind over 80 km/h, heavy rain, hail or snow.

Teknowind parasols are equipped with specific bases that allow them to be anchored. If you choose to position them only by ballast you certify their suitability for normal use in wind conditions not exceeding 70 Km/h.

The fixing stage of the parasol and its handling are the sole responsibility of the customer unless specifically requested during the purchasing process.

## WARRANTY:

Products in the Teknowind line are warranted for two years against structural defects not due to misuse or lack of maintenance and against invasive oxidation not resulting from scratches or abrasions from use and not removable by normal cleaning and maintenance.

Small irregularities on the surface of the product are characteristic of the particular painting technique used and in no way affect the inherent protective quality of the product itself. Should you intend to make use of the warranty, you must present the defective item and the purchase invoice to the retailer. Teknowind s.r.l. disclaims all liability for damage caused to property or persons resulting from improper use of the product.

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