

Big Ben



CARAVITA®

Assembly and operating instructions

1 Foreword

Foreword

We are pleased that you have chosen our product. With the purchase of a CARAVITA product, you have decided on quality, which consists of the best materials and was designed according to the highest standards.

Read the instructions in this document carefully to set up the product safely. Be sure to observe the safety instructions listed and do not carry out any independent conversion work on the product.

Imprint

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2 Introduction

2.1 Notes on safety

For the safety of persons, it is important to follow the instructions. Failure to follow the instructions may result in personal injury and/or damage to property due to the function of the product. Non-compliance releases Caravita from liability.



Warnings are marked with this or a similar symbol in the instructions.



- Read through the instructions before installing and using the product!
- Observe safety, adjustment, operating and maintenance instructions!
- When passing on the product, give the instructions to the new owner! Keep the
- instructions until the product is disposed of!

2.2 Notes on the target group and application of the instructions

Target group

The instructions are intended for persons who assemble, operate, maintain and/or service the product.

Activities concerning the electrical connection of the components may only be carried out by a qualified electrician.

For assembly, knowledge of occupational health and safety, accident prevention regulations, handling of ladders, insertion of fastening materials, commissioning and operation of the product must be available.

If one of these qualifications is not available, a competent installation company must be commissioned.

Content

This manual belongs to the following product:
Caravita Big Ben with optional motor

2.3 Explanation of the signal words



DANGER

Indicates an imminent hazard that will result in death or serious injury.



WARNING

Indicates a possible imminent danger that could lead to death or serious injury.



CAUTION

Indicates a possible imminent danger that could lead to minor injuries.



NOTE

Indicates a potentially imminent situation that could result in product or property damage.

2.4 Basic safety instructions

The listed safety instructions and warnings are intended to protect your health and to protect the product. The instructions must be read carefully and followed.

Damage caused by improper handling or by not following the instructions is not covered by the warranty. No liability is accepted for consequential damage!



WARNING

If a radiant heater is available, follow the instructions for the radiant heater!

Introduction

General safety instructions



WARNING

Risk of injury when repairing the product!



The product is permanently connected to a power supply. Danger may therefore arise during repair work.

- Disconnect the product from the power supply with a fuse and secure it against being switched on again.



DANGER

Danger to life and limb due to the umbrella falling over

The heavy weight of the umbrella can cause it to tip and fall over due to weather conditions or mechanical impact.

- Only use the umbrella for its intended purpose.
- In strong winds and thunderstorms, retract the umbrella or do not erect it.
- Do not climb on the umbrella.
- Do not leave children without supervision near the umbrella.
- Do not use the shade without a suitable stand.
- Do not leave the umbrella unattended.
- Only use the shade as a sunshade when it is fully opened.



DANGER

Fire hazard due to flying sparks

The fabric of the umbrella is flammable.

- Do not use flames or open fires near the parasol.



DANGER

Danger to life and limb due to lightning strike

The umbrella can become a lightning conductor.

- Never seek shelter under the umbrella during a thunderstorm.



DANGER

Danger of suffocation due to packaging material

Plastic films, polystyrene parts and small parts from the packaging can become dangerous toys for children.

- Keep children away from small parts.
- Do not leave packaging material lying around carelessly.



CAUTION

Risk of injury due to tipping

Carelessness can cause the umbrella to tip over with its heavy weight.

- 2 persons are always required for assembly.
- The stand must be designed with sufficient ballast to prevent the closed canopy from tipping over in strong winds.



WARNING

Risk of injury to uninvolved persons

If there are people within the opening radius of the canopy, they can be injured if they are not careful when opening the canopy.

- Before opening the canopy, make sure that no uninvolved persons are within the opening radius of the canopy.
- Always maintain visual contact with the canopy while it is opening.
- Only open the umbrella when there is no wind or the wind is only blowing lightly.
- The screen must not be opened by a higher-level control.

Wind limits

The following table shows the maximum permissible wind speeds in relation to the canopy shape and size in km per hour / Beaufort:

Sizes round*	3 m	3,5 m	4 m	4,5 m	5 m	5,5 m	6 m
Max. permissible wind (open, fastening with ground sleeve)	65/7	65/7	60/7	60/7	55/7	55/7	50/7
Max. permissible wind (open, mobile umbrella stand)	50/7	50/7	50/7	45/6	40/6	40/6	40/6

Sizes square*	3 x 3 m	3,5x3,5 m	4x4 m	4,5x4,5 m	5x4 m	5,5x5,5 m	6x6 m
Max. permissible wind (open, fastening with ground sleeve)	65/7	65/7	60/7	60/7	55/7	55/7	50/7
Max. permissible wind (open, mobile umbrella stand)	50/7	50/7	50/7	45/6	40/6	40/6	40/6

Sizes rectangular*	3x4 m	3,5x4,5 m	4x5 m	4,5x5,5 m	5x6 m	5,5x6,5 m	5x7 m
Max. permissible wind (open, fastening with ground sleeve)	60/7	55/7	55/7	50/7	45/6	40/6	40/6
Max. permissible wind (open, mobile umbrella stand)	50/7	45/6	40/6	35/5	35/5	35/5	35/5

Freestyle (longest edge length)	4 m	4,5 m	5 m	5,5 m	6 m
Max. permissible wind (open, fastening with ground sleeve)	55/7	40/6	40/6	35/5	35/5
Max. permissible wind (open, mobile umbrella stand)	45/6	40/6	35/5	35/5	35/5

* Parasol Big Ben in standard version without wind roof and without additional equipment.



NOTE

Use free weather warning apps such as WarnWetterApp, Nina, WetterOnline or KATWARN to be warned of severe weather in the region.

Operation

Operating a defective product can injure people and/or damage adjacent parts.

- The product may only be operated if it is in perfect technical condition.

Assembly preparation

Improper installation may impair the safety, function and service life of the product. Persons may be injured and/or the product or adjacent parts may be damaged.

- The specified assembly steps and their sequence must be observed. The
- product may only be installed if it is in perfect technical condition.
- The mounting surface must be checked for load-bearing capacity before installation.

3 Information about the product

The Big Ben parasol from Caravita is a large, stable and flexible shade provider for terraces or gardens. It provides excellent protection from direct sunlight and harmful UV radiation.

The Big Ben can be operated either manually by crank or conveniently with a motor. The canopy is made of easy-care material.

The Big Ben can be equipped with extras such as LED lighting, radiant heaters or a motor drive and other extras.

The parasol is an ideal choice for anyone who wants to create a comfortable and attractive outdoor area.

Technical data

The products are exclusively individual and custom-made. Dimensions and weight vary depending on the design of the model.

The exact details of the weight and size of the product can be taken from the order or delivery note.

3.1 Intended use

The following information applies to the following product:

Caravita Big Ben with optional motor

The product is an external sunshade that is used as summer heat and glare protection. The product is free-standing and serves to shade open spaces.

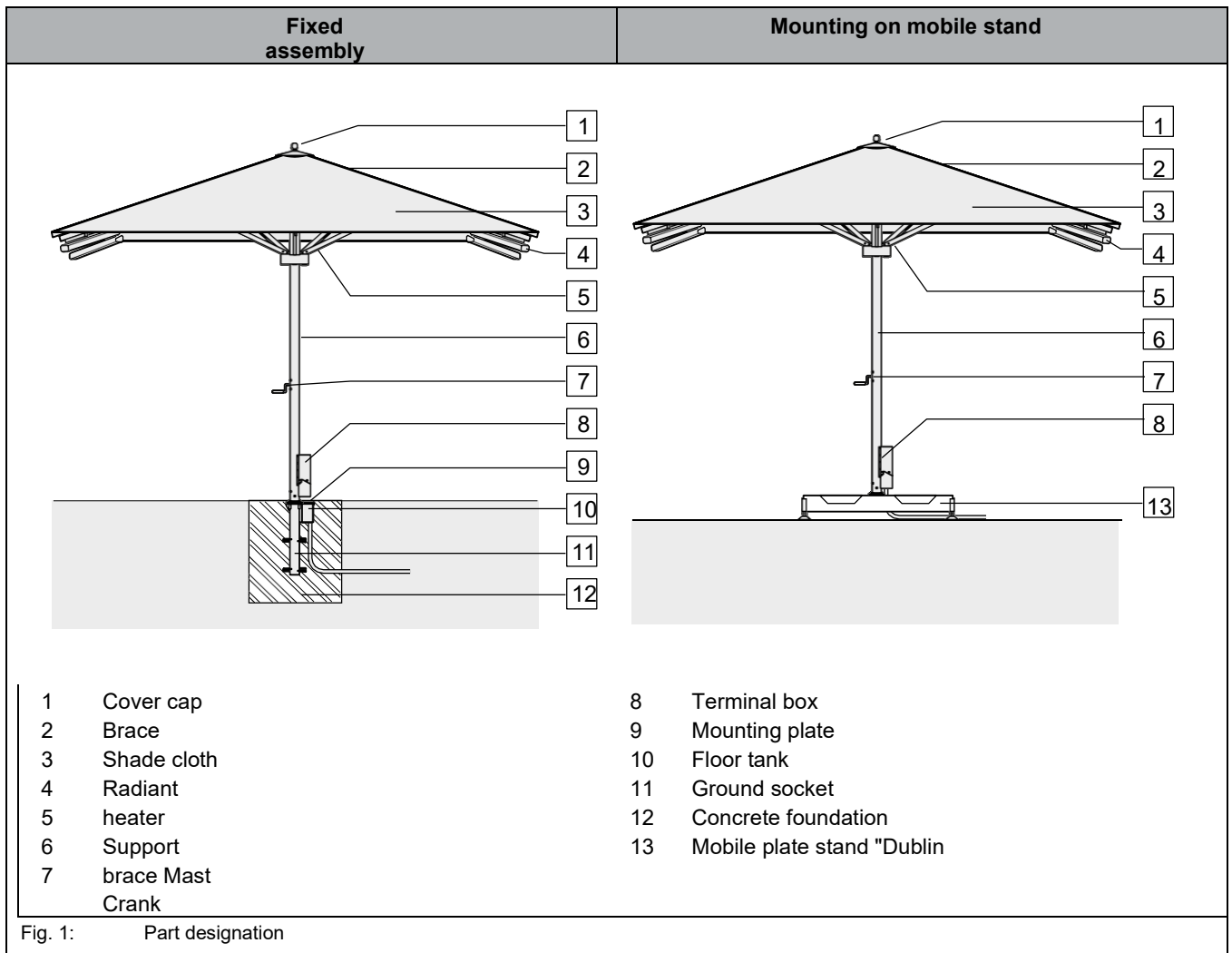
The product is to be used as sun protection and not as rain protection.

Misuse may result in significant hazards.

Additional loads on the product due to suspended objects or rope bracings can lead to damage or a fall and are therefore not permitted. Caravita is not liable for any damage resulting from this.

Intended use also includes observing these instructions and complying with the maintenance specifications contained therein.

3.2 Part designation



3.3 Data for electric drive

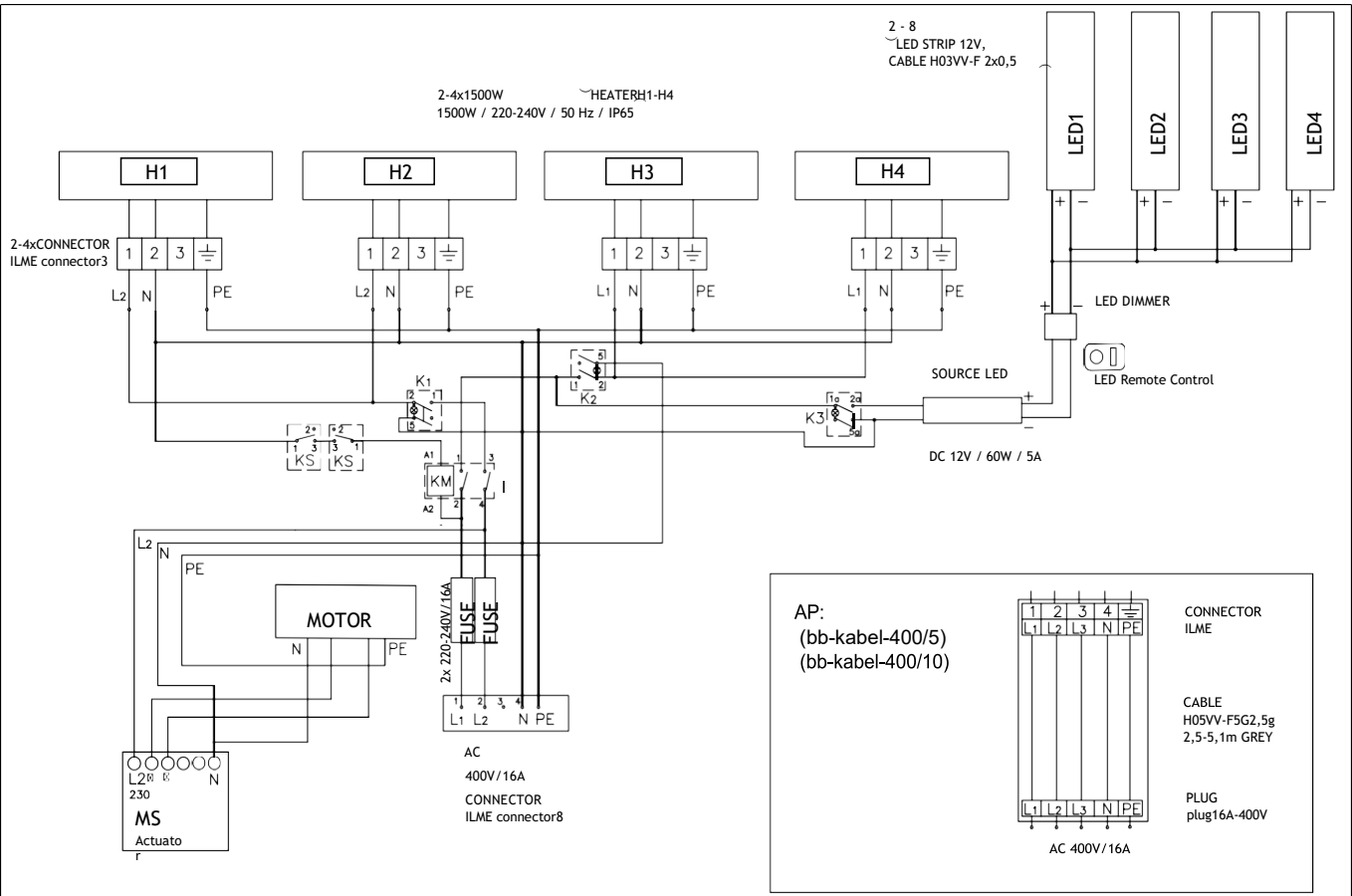
Parameters (motor drive without solar panel)	Value
Power consumption	1,00 A
Rated voltage	230 V/50 Hz
Protection class	IP 44
Short-time duty (S2)	6 min.
Emission sound pressure level	LpA ≤ 70 dB(A)*

* With the standard installation of the product on the test stand, the noise emission level is < 70 dB(A). The value may deviate due to installation.

Information about the product

3.4 Electrical connection

Circuit diagram for 2 to 4 radiant heaters and 2 to 8 LED light strips



H1 - H4 Heaters

LED 1-4 Light strips

WMS Receiver remote control

Motor 230 V drive

Source LED transformer

AP Wiring diagram

L1	Cable, brown
----	--------------

L2 cable, black

NCable , blue

PEErdling cable yellow-green

KM contactor

KSSwitch end

K-K2 Safety shut-off heating

~~K3 Safety connection for LED~~

3.5 Data for solar

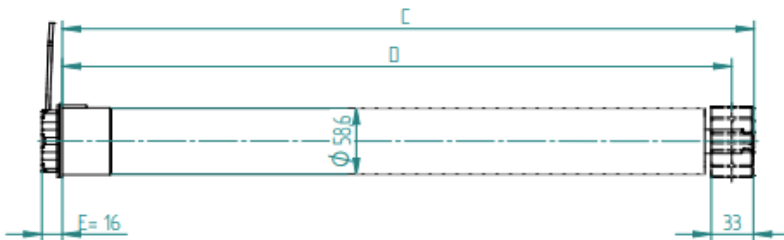
Data for solar

The technical data given are subject to tolerances (according to the respective standards).

Size / Type	Solar panel 10
Rated voltage [V]	12 (DC)
Rated power [W]	10
Voltage at maximum power [V]	17
Current at maximum power [mA]	590

Information about the product

Parameters (Motor drive with solar panel)	L868 DC
Rated power consumption [W]	135
Shaft diameter	63
Power consumption	8,00 A
Rated voltage	12 V
Protection class IP	44
Switch-on range (revolutions)	40
Operating time (min S2)	10
Length C [mm]	542
Length D [mm]	525
Length E [mm]	16
Weight [kg]	3.78
Operating ambient temperature [°C]	-20...60
Conformity	CE
Protection class III	III
Connection cable pluggable [m]	1.0
Article number	36403001



Size / Type	Hand-held radio transmitter
Operating voltage [V]	3 (DC)
Channels	1
Battery type	2 x LR06 (AA Mignon)
Temperature range	0 to +55 °C
Junction box Protection class	IP20
Radio frequency	869.525 MHz
Weight in grams (incl. battery)	120

4 Assembly



CAUTION

Risk of injury due to tipping during assembly

Tipping or dropping the product can cause serious injury.

- At least 2 people are required to assemble and set up the product.
- Mount the product on a level surface.



NOTE

When installing several parasols, a distance of 25 cm must be maintained between the individual parasols.

We will be happy to answer questions about installation by e-mail or via our service hotline. The contact details are listed on the first and last page of this document.

4.1 Unpack product



DANGER

Danger of suffocation due to packaging material

Plastic films, polystyrene parts and small parts from the packaging can become dangerous toys for children.

- Keep children away from small parts.
- Do not leave packaging material lying around carelessly.



NOTE

The cardboard box is reused as a space-saving storage box for storing the umbrella.

- Do not cut or tear the box when unpacking.

Remove the umbrella from the packaging

- 1 Check the packaging for damage.
- 2 Carefully cut the adhesive tapes and the plastic straps with a knife without damaging the shade in the box.
- 3 Carefully unpack the umbrella and the individual parts.
- 4 Check the contents of the packaging for completeness and defects.



NOTE

In the event of obvious defects in the packaging or incompleteness of the delivery, the specialist dealer, the supplier or the manufacturer must be informed immediately in order to assert claims for damages and compensation.

- 5 Properly dispose of the remaining packaging material (polystyrene, plastic).

4.2 Transport product

The product can be transported without additional aids.

For transport, due to the weight and size of the product, 2 people are required so that one person carries the front end and one person carries the back end of the umbrella.

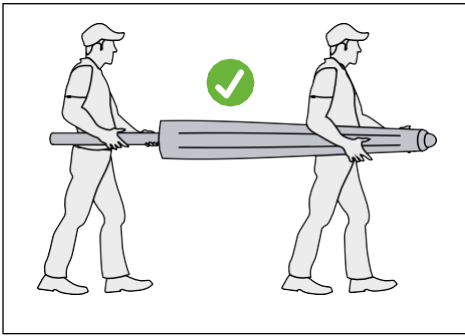


NOTE

Material damage due to cracks and bent struts

Careless transport can damage the canopy.

- Do not pull the canopy across the ground by the canopy cover or the protective cover.
- Do not carry the umbrella by individual umbrella struts.



When transporting the umbrella, grasp it with both hands.

4.3 Scope of delivery

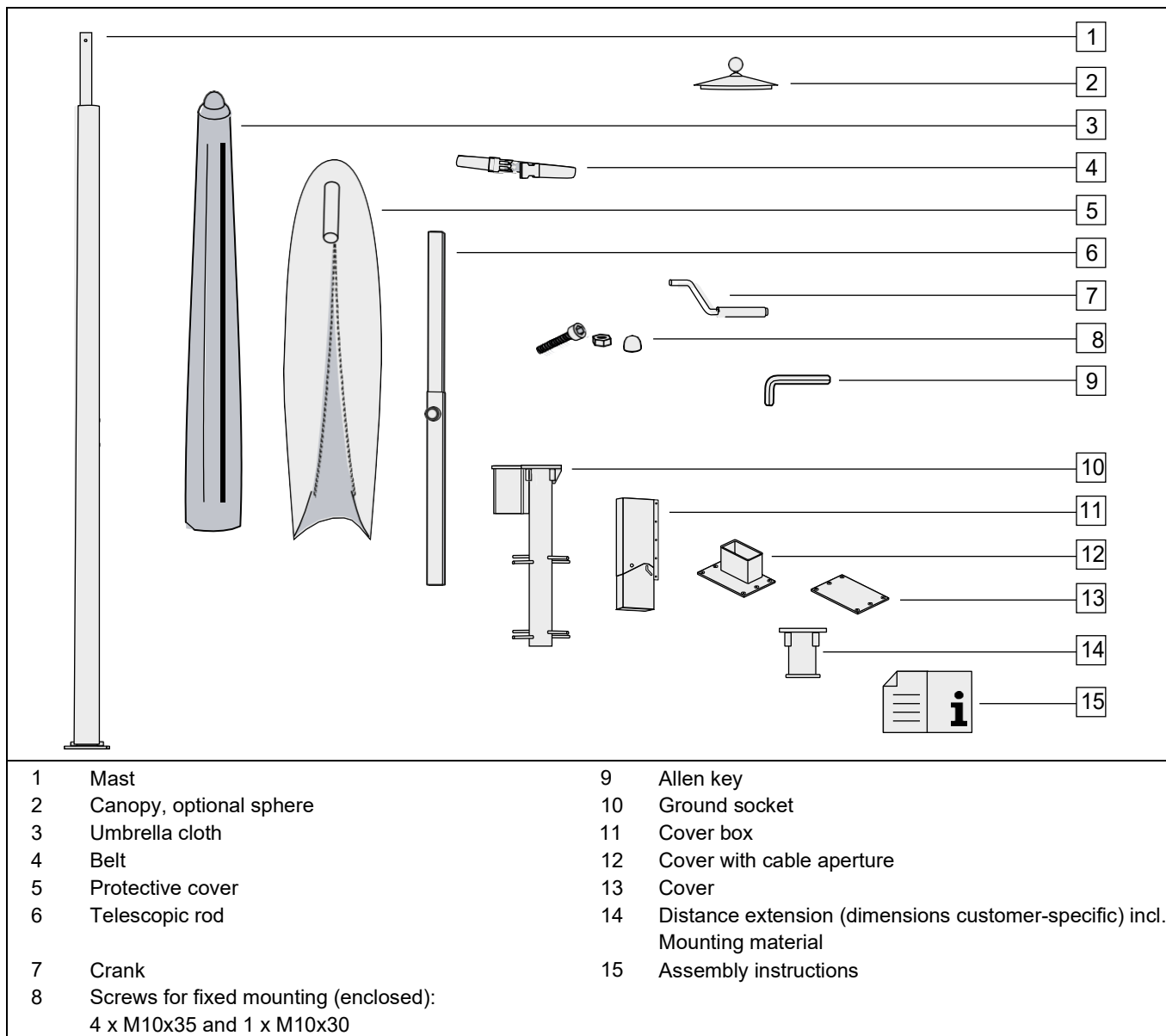


INFO

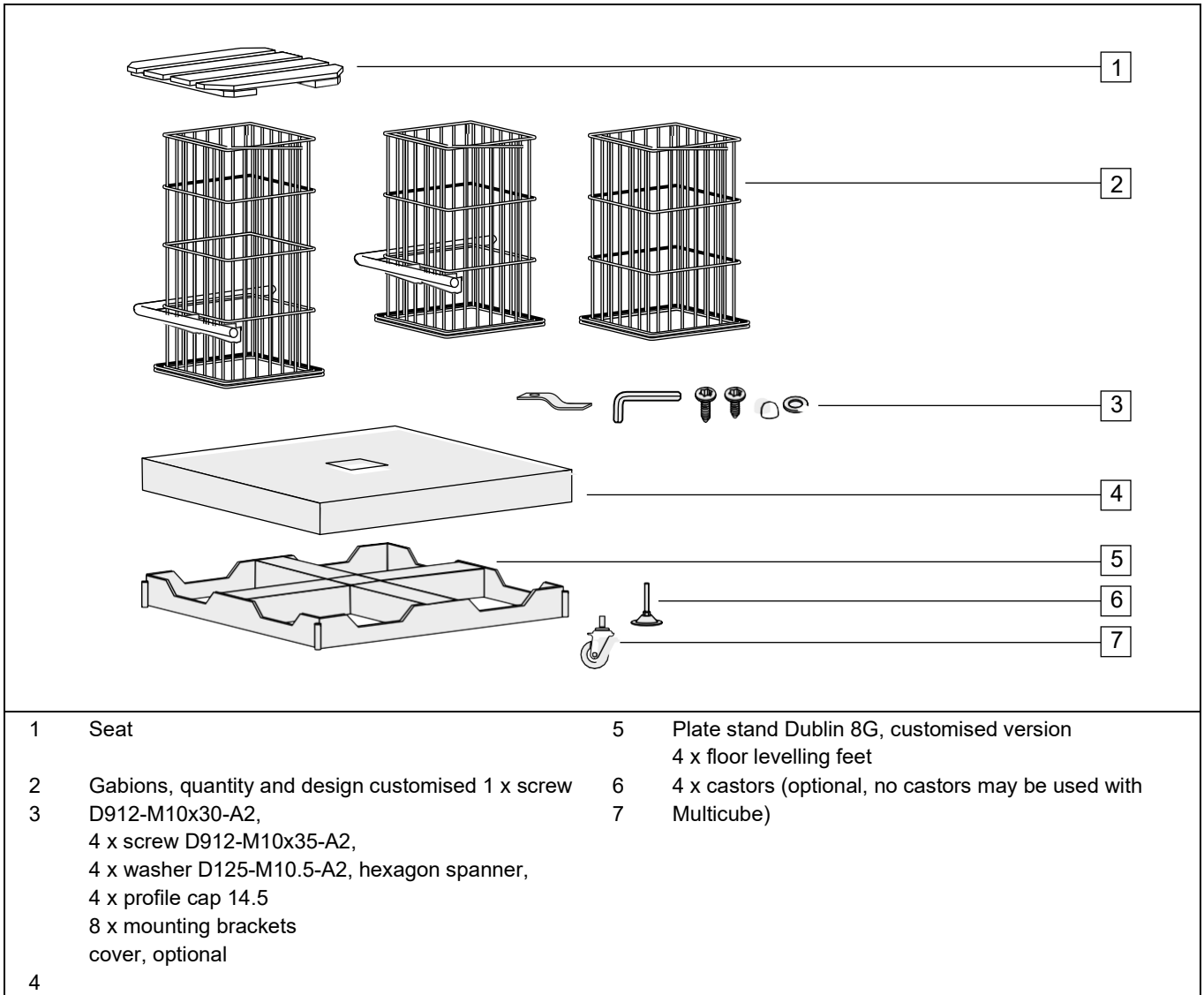
- Check the scope of delivery according to the
- delivery note! Check that the parts are intact!
- Compare the situation on site with the order data!
- Interrupt the installation and contact WAREMA if any parts are damaged or the information does not correspond to the order!

Assembly

Scope of delivery Standard equipment:

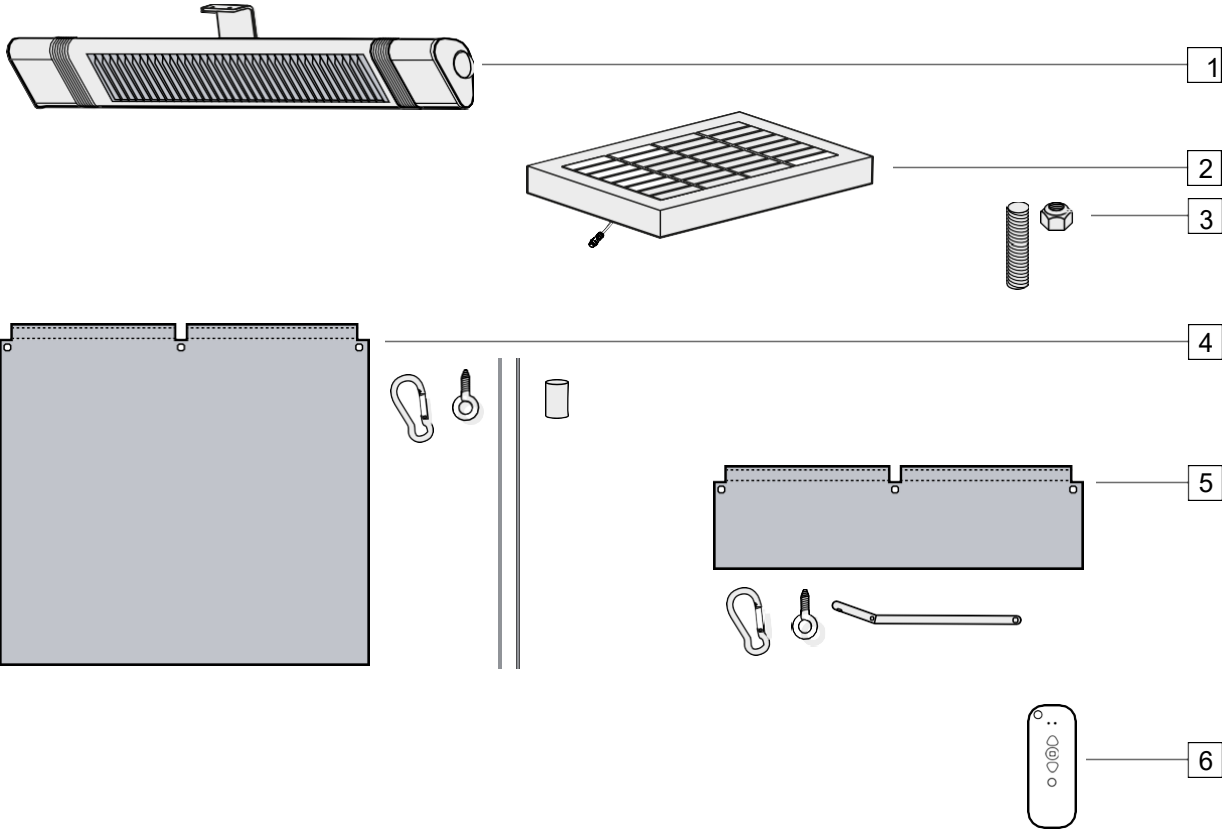


Scope of delivery for mounting on mobile stand:



Assembly

Scope of delivery options:



1	Radiant heater incl. screws and pre-assembled fastening	4	Side tarpaulins incl. fastening material, customised versions
2	Solar element	5	Rain gutters incl. fastening material, customised versions
3	1x M8 nut with enclosed set screw M8 x 60	6	Remote control for motor and lighting

4.4 Position of the product

The illustration shows an example of a shade with ground sockets and screw-on stand (optional):

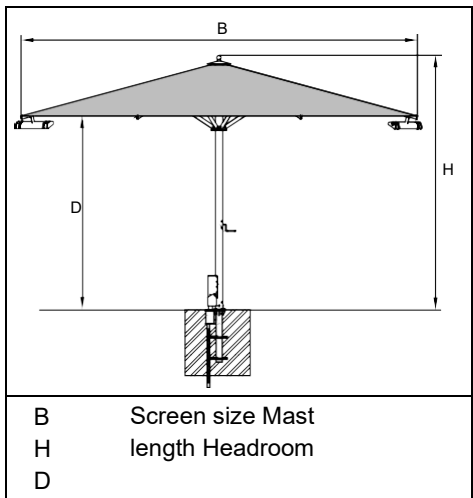


Fig. 2: Ordering information Big Ben

Please note the distances to be observed when setting up umbrellas in groups:

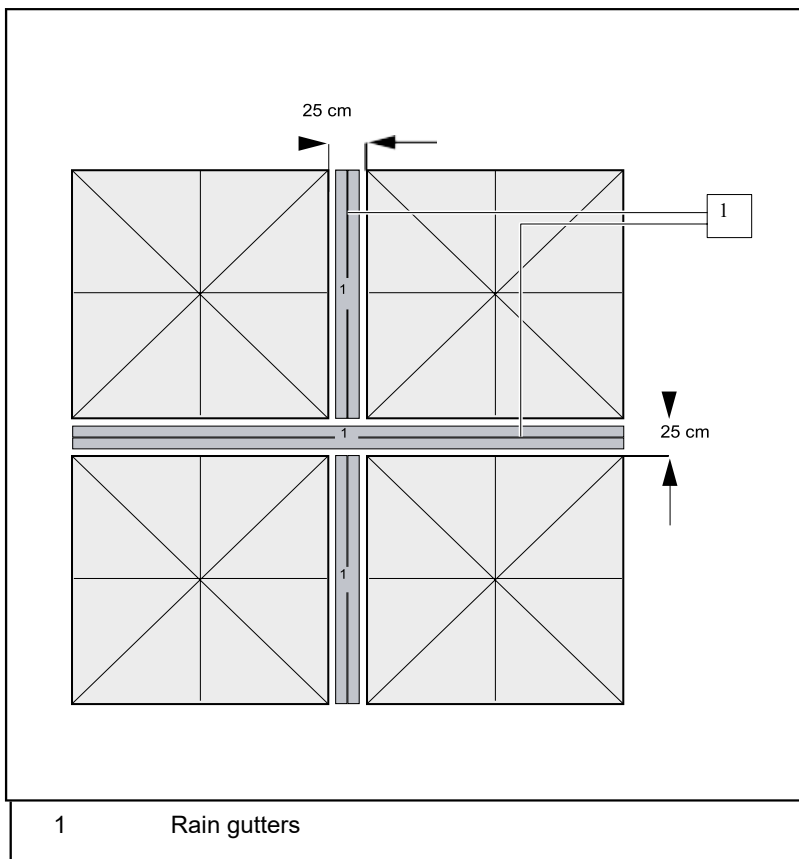


Fig. 3: Spacing for umbrellas in groups

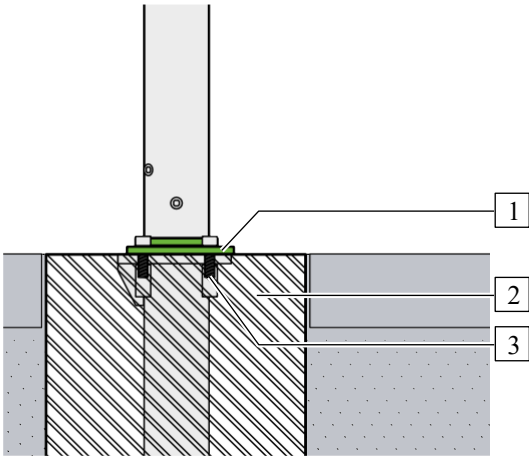
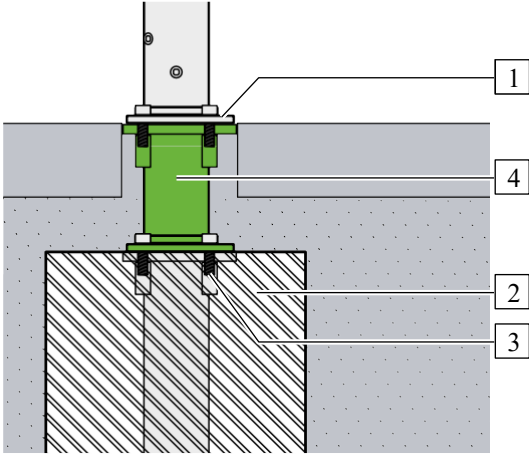
Mounting types of the posts



INFO

Observe the special features of the fastening types of the listed components and arrange for any necessary preparatory work.

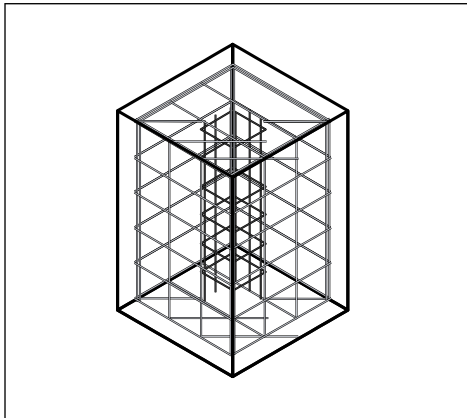
- Mast
- Ground sleeve if necessary
- Electrical connections, if applicable

Floor mounting directly on foundation [2]	
	The base plate [1] is fixed directly to the foundation [2] with suitable fixing material [3].
Floor mounting with distance extension [4].	
	Spacer extension [4] on foundation [2] with suitable Fastening material [3]. Place the base plate [1] on the distance extension [4].

INFO

- For the foundation, DIN 1045 and a frost-free foundation must be observed. The edge distances of the fastening points must be taken into account.
- The foundation for fixing the base plate or the spacer extension must have been cast in compliance with the processing guidelines.

4.5 Types of soil connection



i INFO

- ▶ For the foundation, DIN 1045 and a frost-free foundation must be observed. The edge distances of the fastening points must be taken into account.
- ▶ The foundation for fixing the base plate must have been poured in compliance with the processing guidelines.
- ▶ The ground sleeve must be connected and aligned horizontally and vertically with wire.
- ▶ The crank is always opposite the electrical connection.

4.6 Installing the ground socket with ground tank

i INFO

The procedure of the soil connection used must be observed.

Tie reinforcement

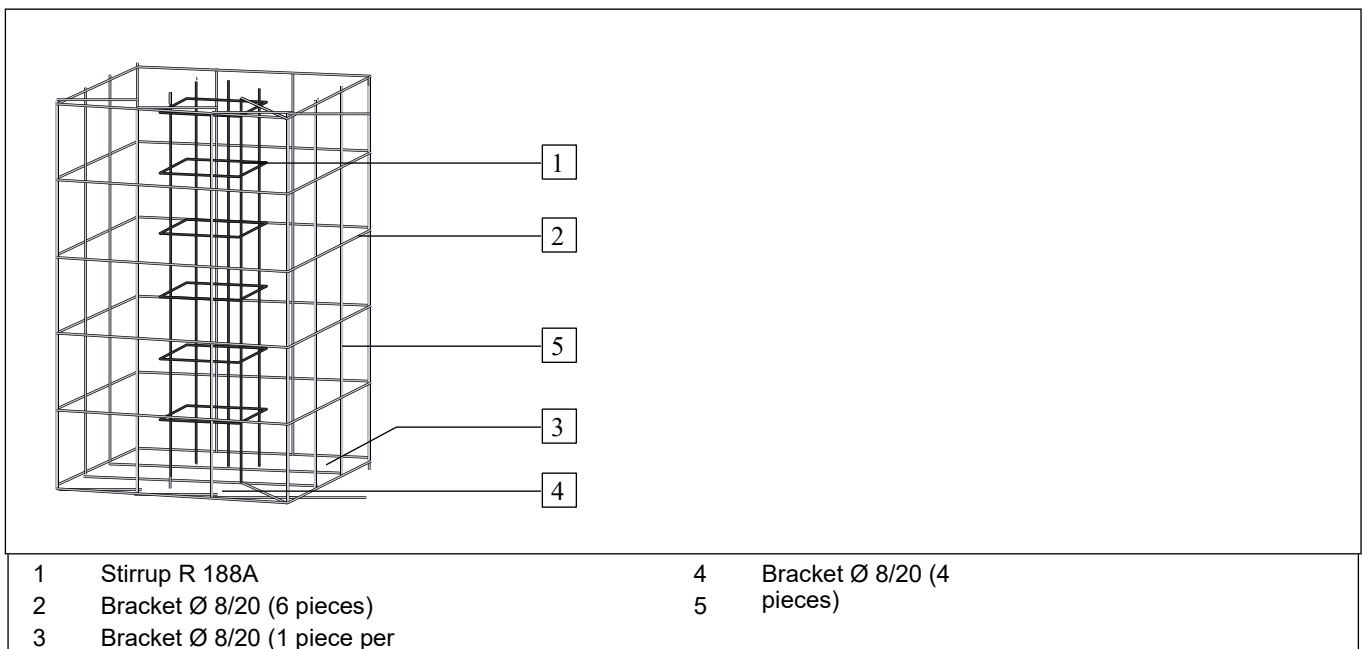


Fig. 4: Tying reinforcement

■ Tie reinforcement.

Position of the ground socket



INFO

When setting the ground socket in concrete, note the desired orientation of the shade. The shade can only be attached to the ground socket in the orientation specified here.

Pay particular attention to the alignment of rectangular umbrellas: the position of the short and long sides is already determined by the alignment of the sleeve!

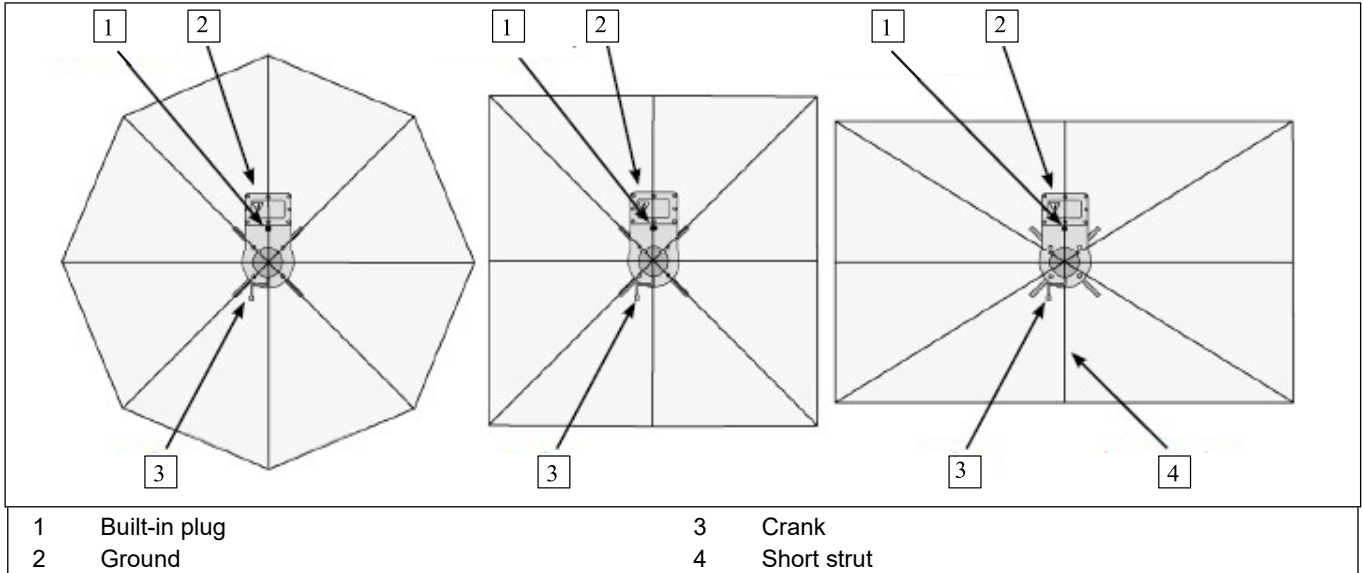


Fig. 5:Note ground sleeve for alignment

Concreting in ground socket with ground



INFO

Foundation for loose sand or gravel-sand soils: for sandy soils, further verification and possibly larger foundations are required.

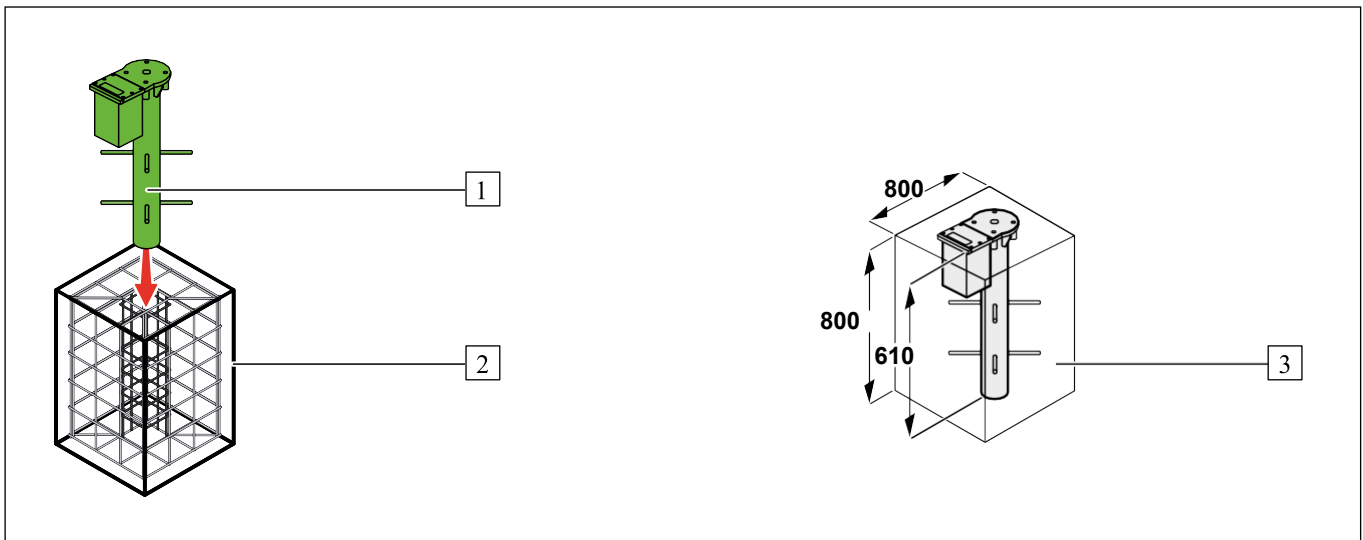


Fig. 6: Procedure for setting the ground socket in concrete

- 1 Ground socket
- 2 Reinforcement
- 3 Foundation hole

- Dig foundation hole [3].
- Insert reinforcement [2] into foundation hole [3].
- Insert ground sleeve [1] into foundation hole [3]! The specified depth (800 mm) must be observed. Pour foundation from at least concrete C20/25 and in compliance with the processing guidelines.
- Allow the foundation to set before further processing.

4.7 Lay underground cable for power supply

The following diagram shows the connection of the underground cable for the power supply to the ground tank:

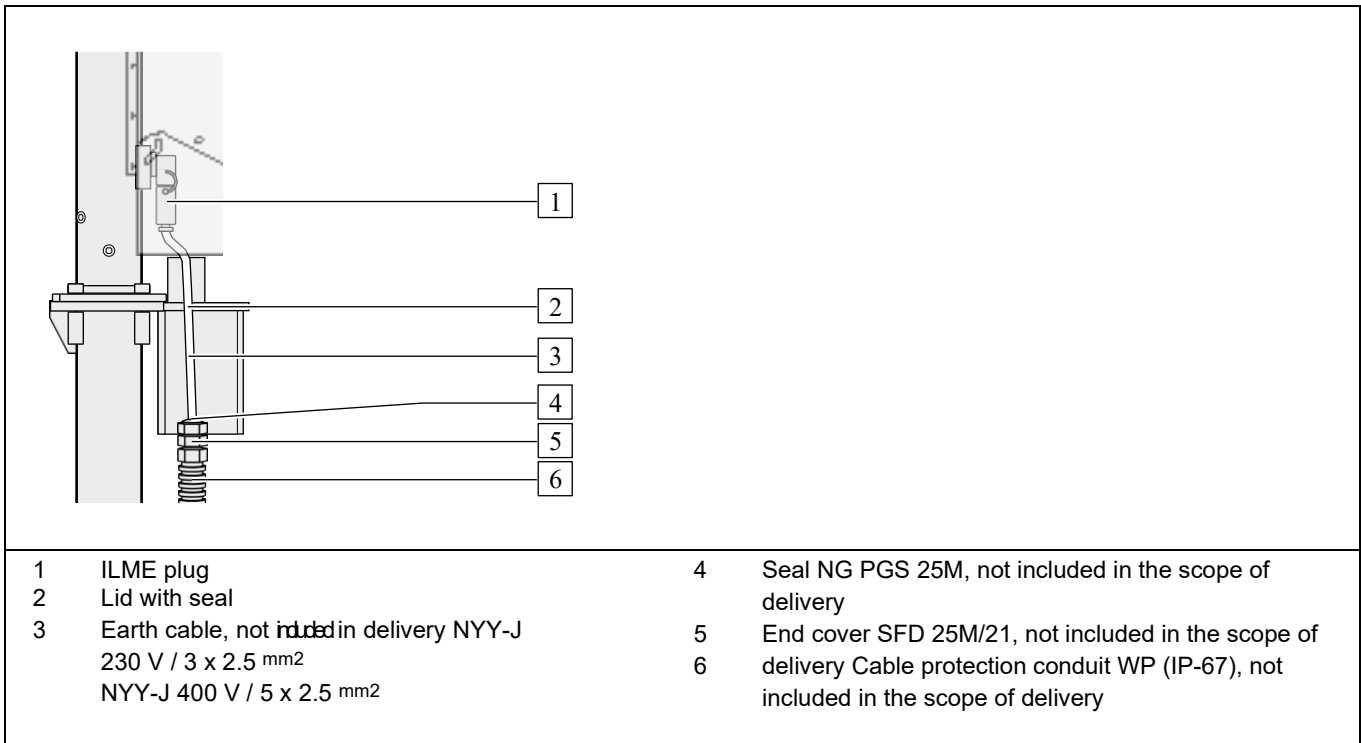


Fig. 7: Connecting the earth cable

4.8 Assemble mobile stand

The product is difficult to move without additional aids due to the weights. To change the location, roller sets can be mounted or the product can be moved with a lift truck.

Mount plate stand Dublin



DANGER FROM ELECTRICITY

Electric shock due to damaged cables

When moving the panel stand with the power cable connected, these can be run over and damaged.

- Only use cables suitable for humid rooms.
- Protect cables from damage and crushing by means of protective devices.
- Disconnect the plug from all poles before moving the stand.
- Disconnect unused extension cables from the power supply.
- Keep cables away from children.
- Keep cables away from animals, liquids and snow.
- Do not overheat the cable.
- Do not use cables if they are wet.
- Do not wind, bend or pull on cables when they are in use.
- Only fasten cables with suitable fastening material.

Assembly



WARNING

Crushing due to falling panels.

Fingers or feet can be crushed by heavy stone slabs, e.g. when tilting the umbrella stand.

- Always secure the umbrella stand when moving it.
- Do not reach under or into free spaces while moving.
- Do not place any limbs under the umbrella stand.
- Observe the weight limit for roller assembly of max. 320 kg total weight for stand and umbrella.
- Observe weight limit of max. 550 kg total weight for stand, shade and additional weights when mounting with floor levelling feet.
- Ensure that the path is trip-free.
- When using Multicube, only screw on floor levelling feet.



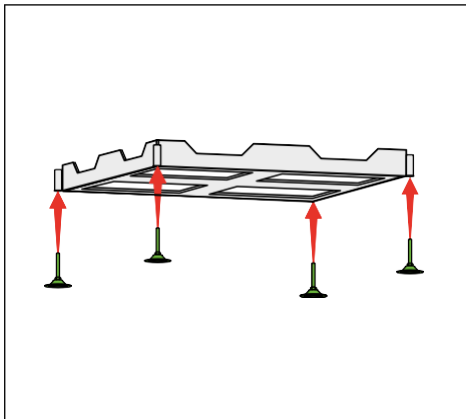
WARNING

Crushing of limbs in umbrella parts.

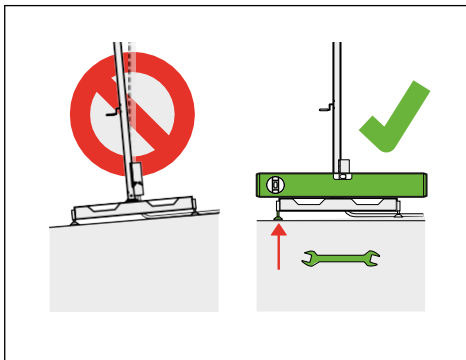
Fingers or feet can be crushed if they are caught between the castor and the stand or floor.

- As soon as the mobile stand has reached its final position, press in the roller lock.
- Observe the weight limit for roller assembly of max. 320 kg total weight for stand and umbrella.
- Observe weight limit of max. 550 kg total weight for stand, shade and additional weights when mounting with floor levelling feet.
- Ensure that the path is trip-free.

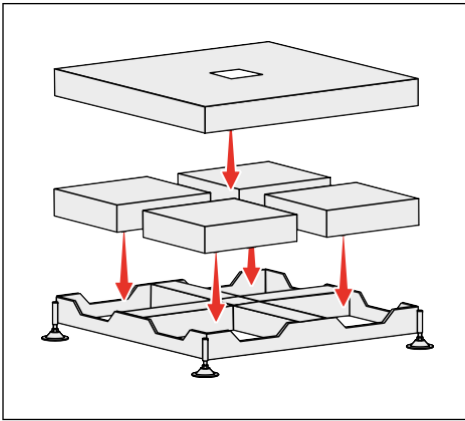
- 1 Place the panel stand at the desired installation location and align it.



- 2 Screw in the 4 castors or the 4 floor levelling feet and tighten them with the screws from the scope of delivery.
Due to the high weights, no castors may be mounted on Multicube.



- 3 If floor levelling feet have been fitted, use them to ensure that the panel stand is level.



- 4 Insert the concrete slabs (to be provided by the customer) into the openings provided.
- 5 Put on the cover for Dublin (optional).

4.9 Mount solar element (optional)

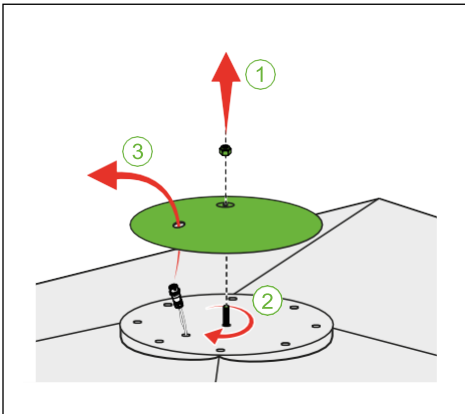
The solar element consists of a metal box with batteries, a control unit and a fuse. The electricity generated runs via a cable from the solar element, inside along the mast to the motor at the base of the mast.



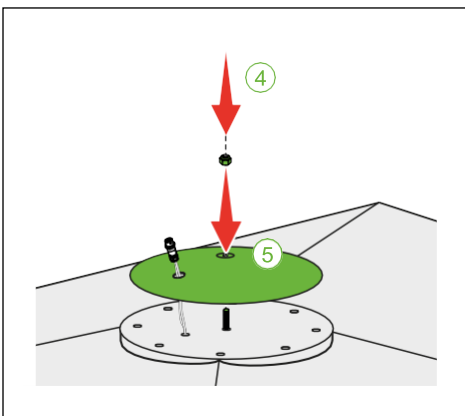
NOTE

The solar element cannot be connected to other loads such as the LED light. Use the battery LEDs provided for this purpose.

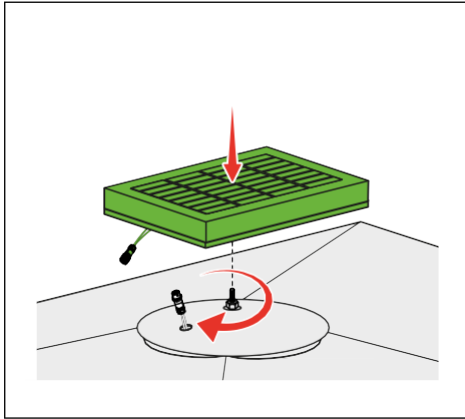
With the solar-powered variant, the solar element must be mounted at the top of the mast:



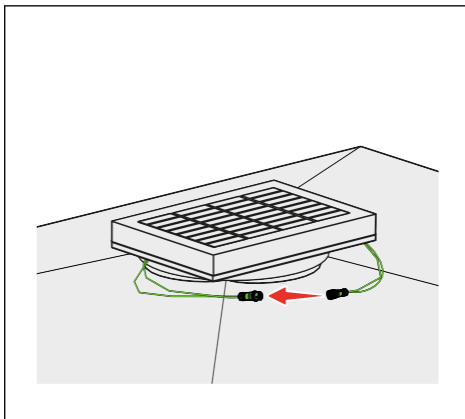
- 1 Remove the cover cap (1) and screw in the enclosed grub screw (2).
- 2 Thread the cable through the hole in the cover cap so that it sticks out only a few cm (3).



- 3 Replace the cover cap (5).
- 4 Screw the nut onto the threaded rod and tighten (4).



5 Screw the solar element centrally onto the threaded rod.



6 Connect the two connector ends.

7 Stow the plug between the solar element and the cover cap.



NOTE

The solar element needs approx. 20 - 30 minutes of charging time to ensure that the canopy opens for the first time. The batteries are pre-charged but will discharge over time.

Operation via power supply unit

If the screen cannot be operated from the batteries, it is possible to switch to mains operation.

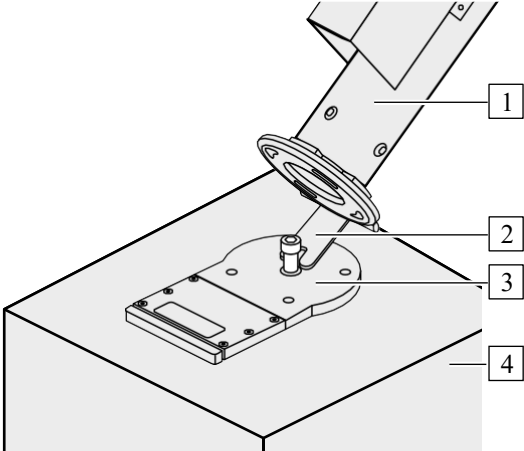
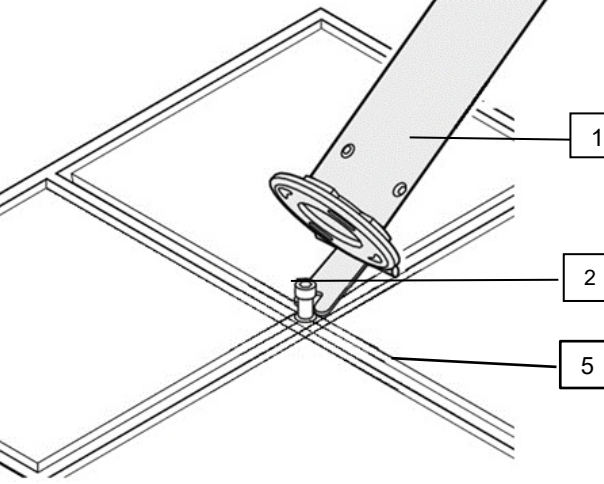
- Switch the toggle switch on the connection box from 12 V to 230 V.
- Plug a commercially available 230 V power supply unit into the connection box.
- Operate the umbrella with the hand-held transmitter.

4.10 Set up and fasten the umbrella

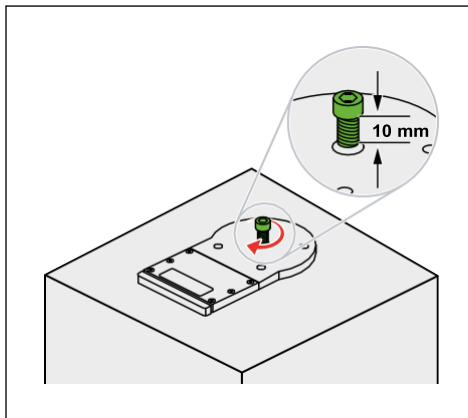


INFO

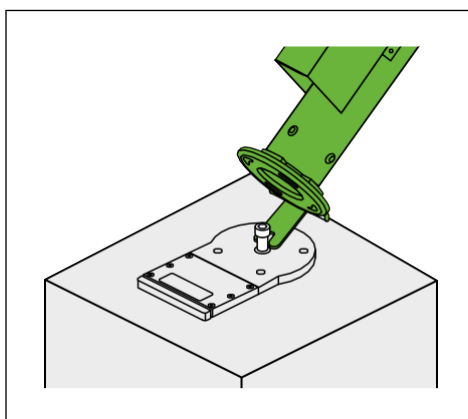
- For safety reasons, set up the umbrella with at least 2 people.
- Prepare the mobile stand or ground socket according to the manufacturer's instructions.
- The mobile stand must be designed with sufficient ballast.
- Provide a stand ladder.
- Have the stainless steel screws included in the delivery and the Allen key ready.
- If there is no telescopic arm, remove the protective cover before setting up.
- Screw the cover cap into the top of the mast.

Fixed assembly	Mounting on mobile stand
	
1 Mast 2 Sliding shoe 3 Base plate for fixed mounting 4 Concrete foundation 5 Mobile stand	

The following step-by-step instructions show an example of how to erect the mast on a firm base:

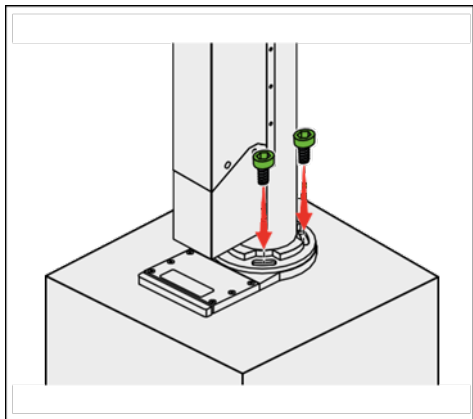


- 1 Screw the screw (M10x30) into the middle hole of the ground socket. The screw must protrude 10 mm.



- 2 Place the screen on the ground with the lower end of the pole pointing towards the ground socket.
- 3 Lift the umbrella and thread the sliding shoe into the centre screw.
- 4 Set up the screen vertically.

Assembly



- 5 Screw the screen to the ground socket with screws (M10x35).
- 6 Align the shade and tighten the screws.

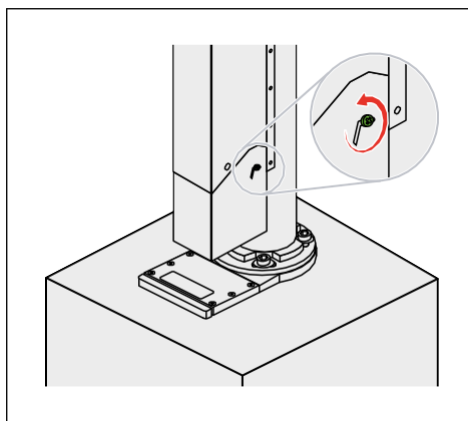
4.11 Connect screen (optional)

Models with electric drive (optional) must be connected.

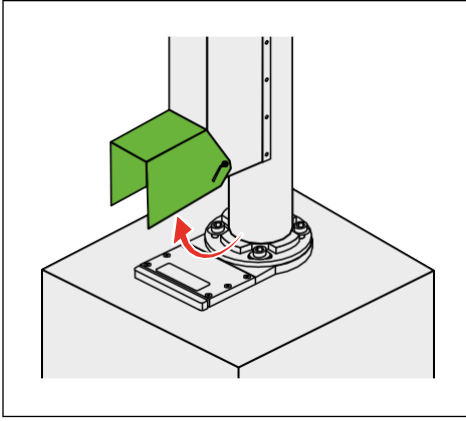
Fixed assembly	Mounting on mobile stand

- 1 Junction box
- 2 Cover
- 3 Floor tank
- 4 Mobile stand

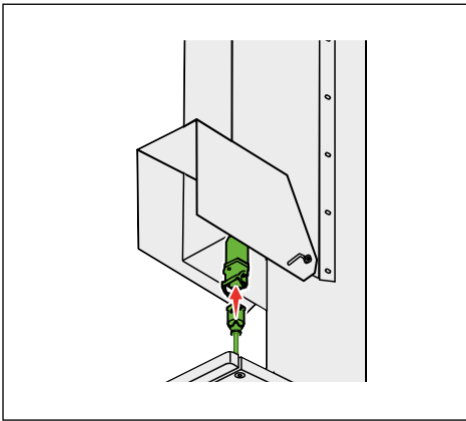
The following step-by-step instructions show an example of how to connect an umbrella to a solid surface:



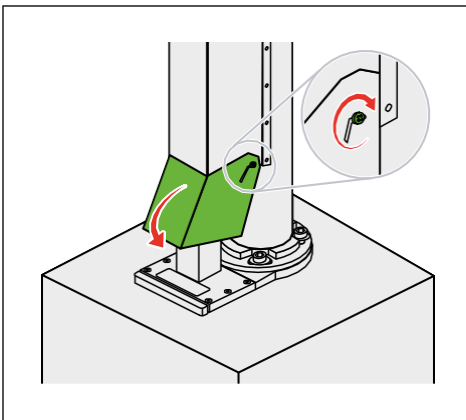
- 1 Loosen the screw from the cover!



2 Swivel the cover upwards!



3 Insert the ILME plug in the terminal box!



- 4 For fixed installation, fit the cover with the cable aperture.
- 5 Close the cover and secure it with the screw!
- 6 If applicable, install and connect existing radiant heaters according to the enclosed operating instructions.
The radiant heaters and any luminaires are also connected to the power supply via the ILME plug.
- 7 If necessary, fit other additional equipment such as rain gutters or side tarpaulins.

4.12 Mount Multicube (optional)

Mount Multicube



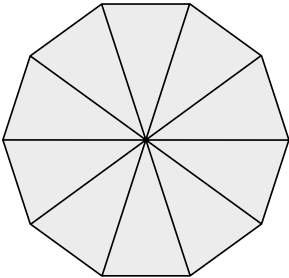
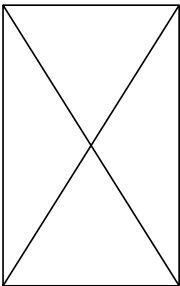
WARNING

Crush injuries due to trapped limbs.

Falling gabions can cause serious injuries.

- Disconnect all poles of the existing power connection by pulling out the plug.
- Do not reach under or into free spaces while moving.
- Do not place limbs under lifted loads.
- Only move the Multicube properly and with the lifting device provided.
- Wear safety shoes.
- Always work with 2 people so that one person can secure the umbrella against tipping.
- Observe weight limit of max. 550 kg total weight for stand, shade and additional weights when mounting with floor levelling feet.
- Due to the high weights, do not mount castors.

The following table shows the weight recommendations for mobile umbrella stands. The data is intended as a guide. For higher loads, e.g. in wind-exposed locations, Caravita recommends using ground sockets or multicubes. The specified weights can be reduced by using commercially available ground anchors with load transfer.

Umbrella shape	Size in m	Recommended weight in kg	Possible with these umbrella stands
	up to 3.5	90	Dublin 8 with 4 ^{walkway} slabs ¹
	until 4	170	Dublin 8 with 8 ^{walkway} slabs ¹
	up to 4.5	250	Dublin 16 with 12 ^{walkway} slabs ¹
	until 5	290	Dublin 16 with 16 ^{walkway} slabs ¹
	up to 5.5	340	Dublin 16 with 16 ^{walkway} slabs ¹
	up to 6 m	400	Dublin 24 with 16 ^{pavement} slabs ¹
	up to 6.5	450	Dublin 24 with 16 ^{pavement} slabs ¹
	until 7	500	Dublin 24 with 24 ^{walkway} slabs ¹
	up to 3.5 x 3.5	90	Dublin 8 with 4 ^{walkway} slabs ¹
	up to 4 x 4 / 4 x 2 / 4 x 3	170	Dublin 8 with 8 ^{walkway} slabs ¹
	up to 4.5 x 4.5 / 5 x 3	290	Dublin 16 with 16 ^{walkway} slabs ¹
	up to 5 x 5 / 5 x 4 / 6 x 3	390	Dublin 24 with 16 ^{pavement} slabs ¹
	up to 7 x 5	470	Dublin 24 with 24 ^{walkway} slabs ¹

1 Commercially available concrete walkway slabs 40 x 40 x 5 cm with approx. 18.4 kg

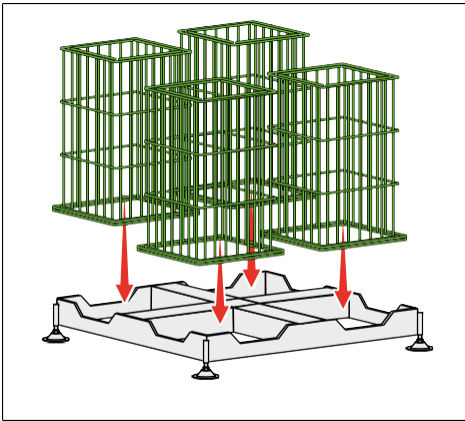
- 1 Set up the plate stand as described.



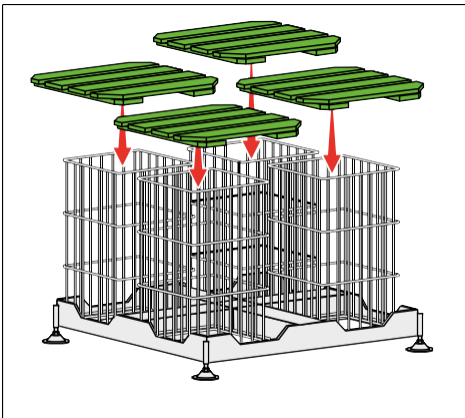
NOTE

Due to the possibly high weights of the product, only floor levelling feet may be fitted.

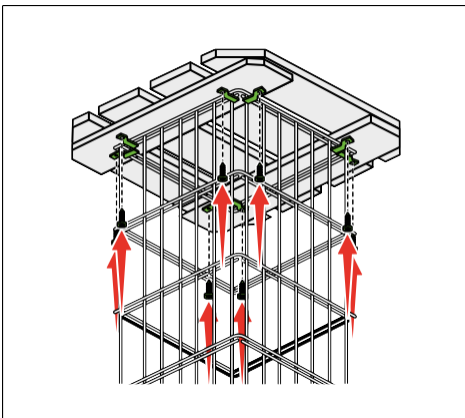
- 2 Set up the mast, see chapter [4.10 "Setting up and fastening the canopy"](#).



- 3 Insert the gabions into the openings provided.
- 4 Fill the gabions. Follow the weight recommendations in the previous table.



- 5 Place the wooden supports in the centre.



- 5 Screw the wooden supports in place from below using 8 clamps and 8 screws from the scope of delivery. If possible, use a cordless screwdriver.

Use lifting device for lift truck



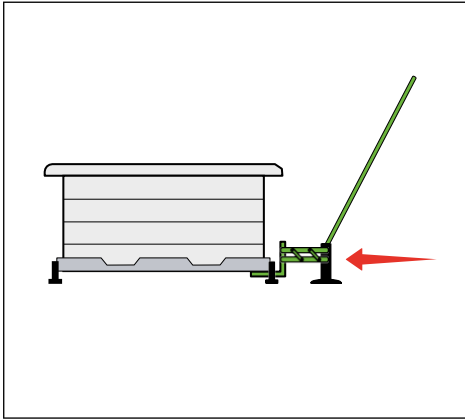
DANGER FROM ELECTRICITY

Electric shock due to damaged cables

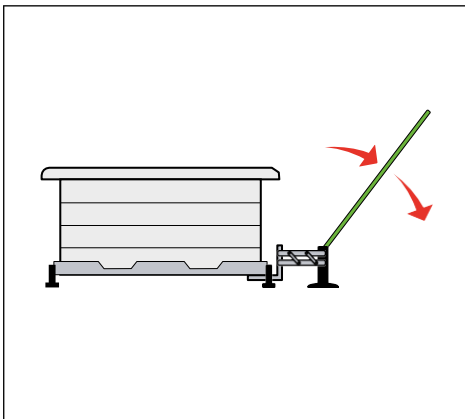
When moving the panel stand with the power cable connected, these can be run over and damaged.

- Protect cables from damage and crushing by means of protective devices.
- Pull out all poles of the plug before moving the stand.
- Disconnect unused extension cables from the power supply.
- Do not wind, bend or pull on cables when they are in use.
- Only fasten cables with suitable fastening material.

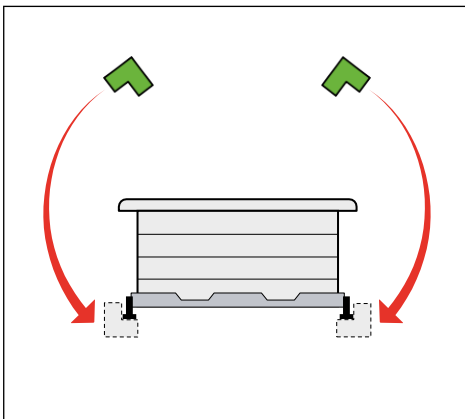
Assembly



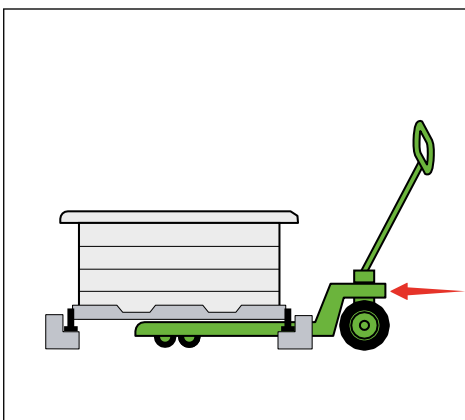
- 1 Slide the lifting device under the Multicube.



- 2 Lift the Multicube with the lifting device. To do this, press the lever down in the direction of the arrow.



- 3 Place metal supports underneath.



- 4 Move the Multicube with the lift truck.

4.13 Fit rain gutters and side tarpaulins (optional)

Mount rain gutters

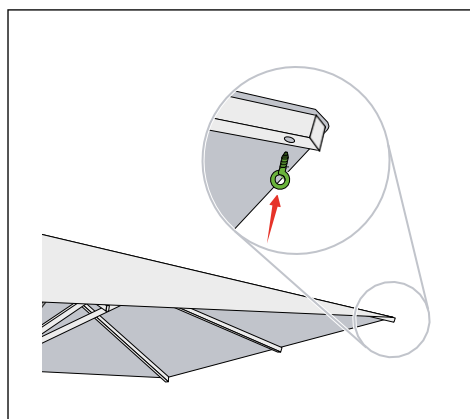
Optional rain gutters can be mounted on the umbrella to prevent uncontrolled dripping of rainwater.



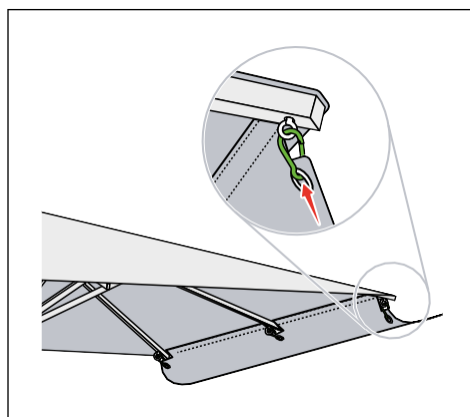
NOTE

Rain gutters can bridge the 25 cm gap between two canopies, but they do not provide complete water protection in this area. Splashing water cannot be completely avoided.

Only the edges of two umbrellas can be bridged with one gutter. The gutter cannot be used for several umbrellas mounted in a row.



- 1 Before mounting the rain gutter, position the long fabric loop on the outside of the umbrella to determine the drainage direction.
- 2 Screw the insertion hooks into the rivet threads at the strut ends.



- 3 Attach the gutter to the parasol using the snap hooks. Make sure that the gutter is fastened evenly at both ends and that it is stretched evenly over the longitudinal poles to effectively drain the water away from the parasol.

Fitting the side tarpaulins

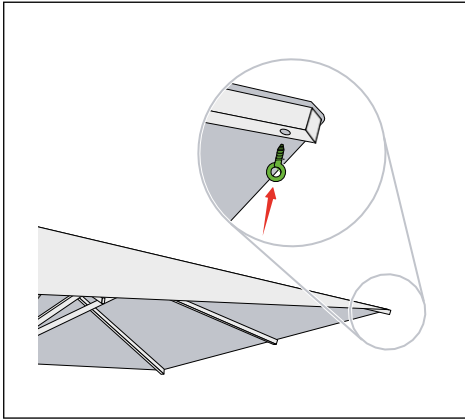
Side tarpaulins can optionally be mounted on the shade to achieve a higher level of sun protection.



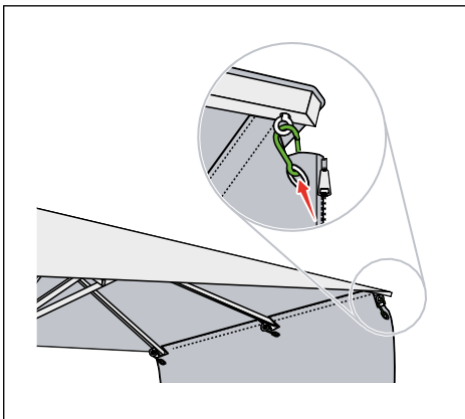
WARNING

A parasol with side tarpaulins is not a permanently usable structure. The use of side tarpaulins can affect the stability of your parasol in strong winds. Remove the side tarpaulins in stormy weather.

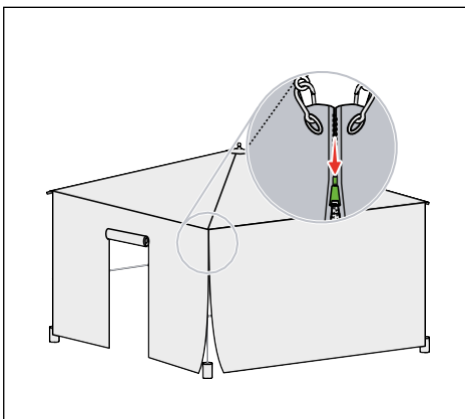
Assembly



- 1 Screw the screw hooks into the rivet threads provided.



- 2 Attach the side tarpaulins to the parasol using the snap hooks on the struts provided.
- 3 Press the Velcro tape over the side lengths.
- 4 Use the supplied aluminium poles and, if necessary, weights or ground anchors to fix the side tarpaulins at the bottom. Make sure that the side tarpaulins are taut and evenly stretched and do not swing in the wind to avoid rubbing and damage.



- 5 Connect the individual side tarpaulins with the zips.

5 Commissioning



WARNING

Risk of injury due to improper use of the umbrella. Improper use may result in injury to persons.

- Do not reach into openings on the product during commissioning.
- Do not hang any foreign objects on the screen that are not explicitly mentioned in the instructions.
- Remove snow or other foreign matter.
- Close the canopy in case of high wind loads.
- Before opening the canopy, make sure that no uninvolved persons are within the opening radius of the canopy.
- Keep children away from controls.



CAUTION

Material damage due to improper use of the umbrella.

The shade can be damaged by improper use.

- Do not light an open fire under the umbrella.
- Remove snow or other foreign matter.
- Close the canopy in case of high wind loads.
- Do not hang on the screen or other components.
- Umbrella can tip over if careless.
- Do not hang any foreign objects on the screen that are not explicitly mentioned in the instructions.
- Remove obstacles from the driving area.
- Do not open the screen by force.



- 1 Remove protective cover .
- 2 Plug in the ILME connector, see chapter ["Connecting the shield \(optional\)", page 26.](#)
- 3 When operating via the solar element, first charge the solar element.
- 4 Open the [canopy](#), see chapter ["Opening the canopy", page 36 .](#)
- 5 If available, attach the battery-operated light according to the enclosed operating instructions.
- 6 If available, test the lighting.
- 7 If available, fit additional equipment such as rain gutters or side tarpaulins, see chapter ["Fitting rain gutters and side tarpaulins \(optional\)", page 31.](#)

6 Operation



CAUTION

Danger of crushing due to carelessness when operating!

People who are in the driving area can be injured.

- Keep the driving area clear of people! Keep
- children away from operating elements!

Operation by hand-held



transmitter INFO

The operation of the hand-held transmitter can be found in the separate instructions for the hand-held transmitter .

6.1 Open canopy

The plastic nets attached to the struts serve to protect against transport damage. If the canopy is open, these can be carefully removed with a knife or scissors.



WARNING

Risk of injury to uninvolved persons

If there are people within the opening radius of the canopy, they can be injured if they are not careful when opening the canopy.

- Before opening the canopy, make sure that no uninvolved persons are within the opening radius of the canopy.
- Always maintain visual contact with the canopy while it is opening.
- Only open the umbrella when there is no wind or the wind is only blowing lightly.
- The screen must not be opened by a higher-level control.



WARNING

Risk of injury to uninvolved persons from flying crank handle

If the shade is opened or closed via the remote control while the crank is plugged in, it can be thrown out.

- When using the remote control, make sure that the crank is NOT plugged in.



INFO

When removing the plastic nets with scissors or a knife, do not damage the fabric of the canopy.

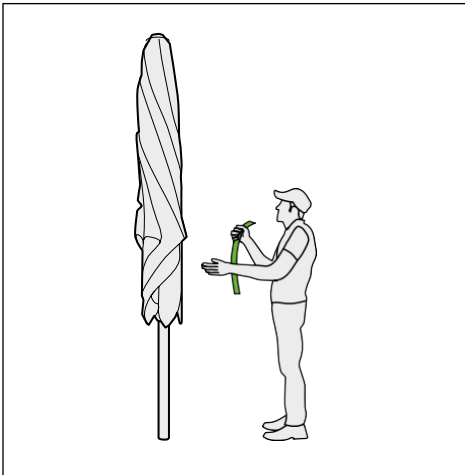


NOTE

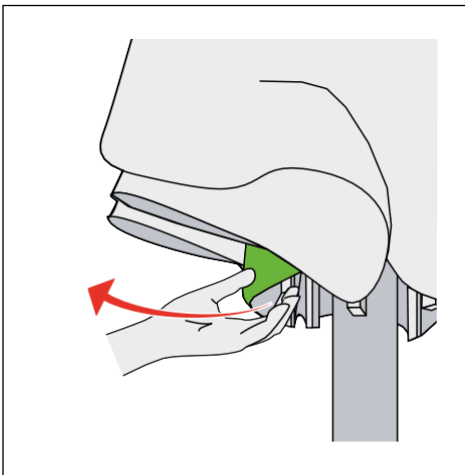
Material damage due to incorrect pulling apart of the struts

- If the shade cannot be opened or closed without problems, solve the problem using chapter [10 "Troubleshooting"](#) or call our service hotline.

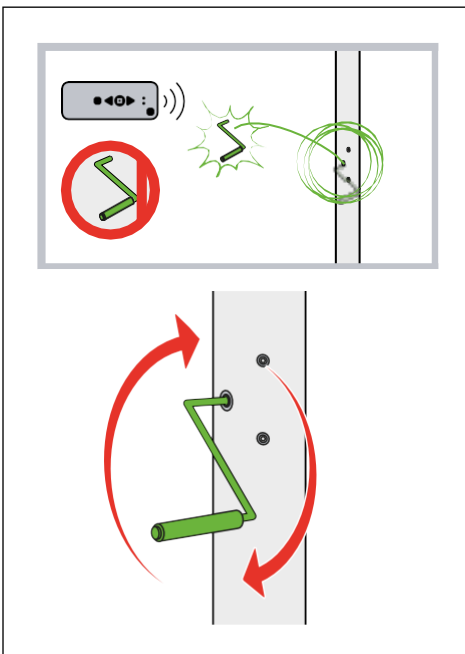
► The shade is securely fastened in the ground sleeve or mobile stand.



- 1 Remove the strap from the canopy.



- 2 Pull the struts slightly outwards. The
 - struts are loosened.



- 3 Insert the crank into the device of the mast. OR
If available, use remote control to start the electric motor.



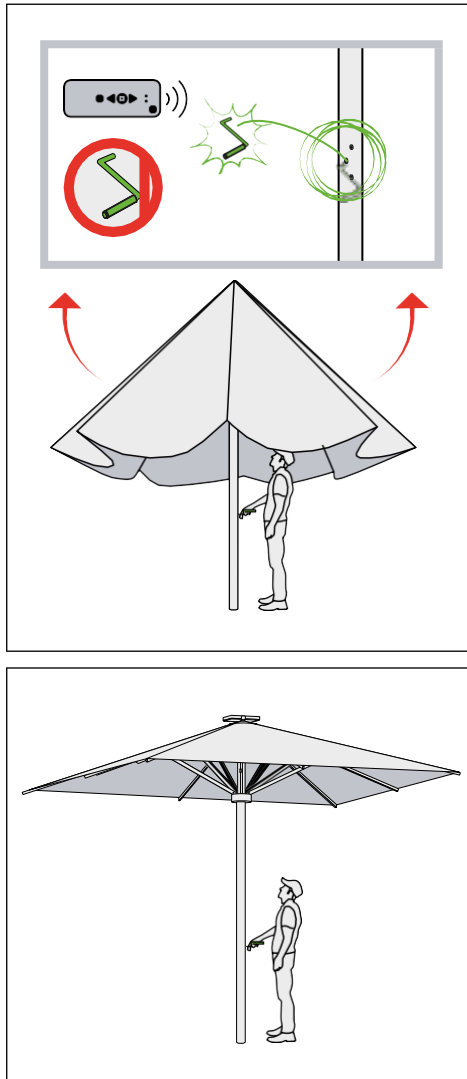
WARNING

Risk of injury to uninvolved persons from flying crank handle

If the shade is opened or closed via the remote control while the crank is inserted, it can be thrown out.

- When using the remote control, make sure that the crank is NOT plugged in.

Operation



- 4 Turn the crank clockwise to open the canopy. Wait until the canopy is taut.
OR
Use the remote control to open the canopy. Wait until the canopy is taut.



INFO

If the crank is turned further than the stop, the gearbox may be damaged.

- 5 Remove the crank from the mast and store it in a safe place.

6.2 Close canopy



WARNING

Risk of injury to uninvolved persons from flying crank handle

If the shade is opened or closed via the remote control while the crank is plugged in, it can be thrown out.

- When using the remote control, make sure that the crank is NOT plugged in.



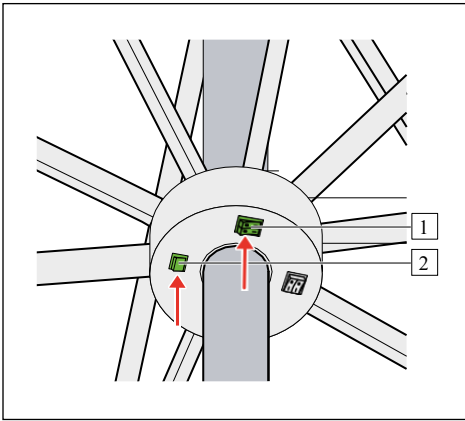
NOTE

Material damage due to rubbing of the umbrella cloth

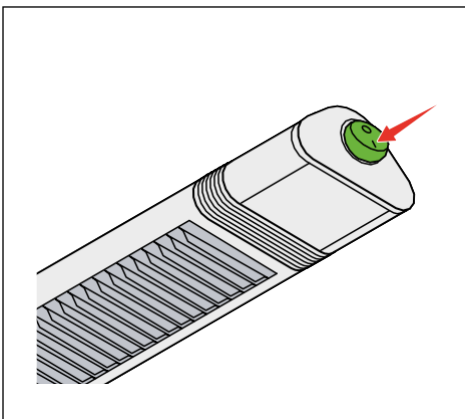
Permanent flapping in the wind can damage the shade cloth by rubbing against the struts. No claims for damages can be made for this.

- Always secure the closed canopy with the strap.

- 1 Remove all attachments such as rain gutters or side tarpaulins and stow them away in a dry place.



- 2 Switch off the light at the rim (2). There can be 1 or 2 single toggle switches.
- 3 If a radiant heater is present, switch off the radiant heater at the rim (1). There may be 1 or 2 double toggle switches.



- 4 If a radiant heater is present, always additionally switch off the radiant heater at the housing itself and allow it to cool down for 3 minutes.



WARNING

Danger of burns on hot surfaces!

During operation and after switching off, there is a risk of burns on surfaces.

- Do not touch the radiant heater until it has cooled down.

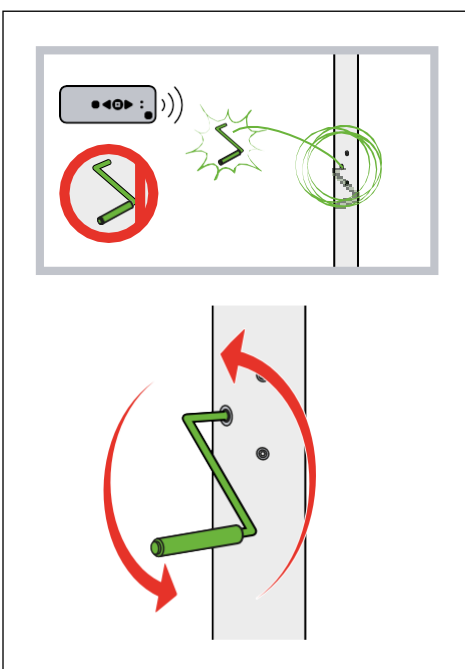


CAUTION

Fire hazard due to hot surfaces.

The cloth can catch fire by touching the hot surfaces of the heaters.

- Stop the retraction of the canopy immediately and extend the canopy again.
- Check the radiant heater and switch it off.
- Retract the screen again.
- In an emergency, pull out the plug on the radiant heater.
- Check emergency shut-off at least 1x per year, see ["Maintenance and care", page 45.](#)



- 5 Insert the crank into the device of the mast. OR
If available, use remote control to start the electric motor.



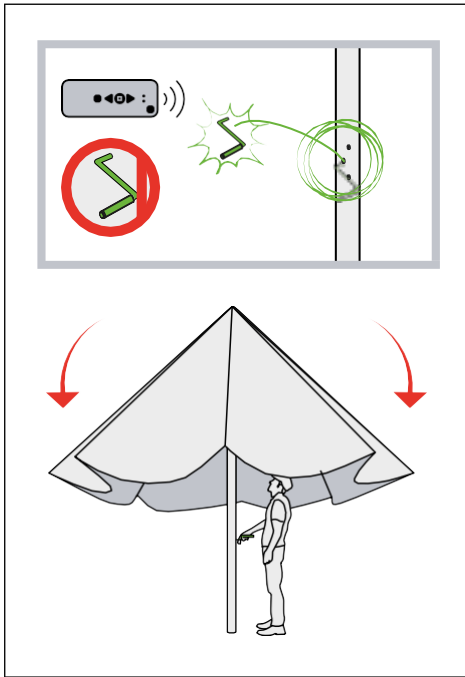
WARNING

Risk of injury to uninvolved persons from flying crank handle

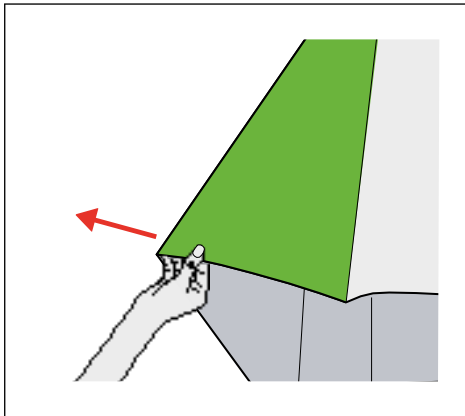
If the shade is opened or closed via the remote control while the crank is inserted, it can be thrown out.

- When using the remote control, make sure that the crank is NOT plugged in.

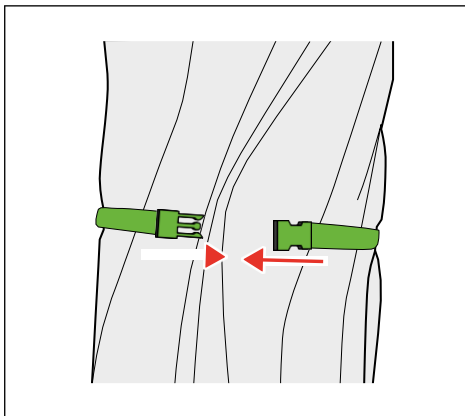
Operation



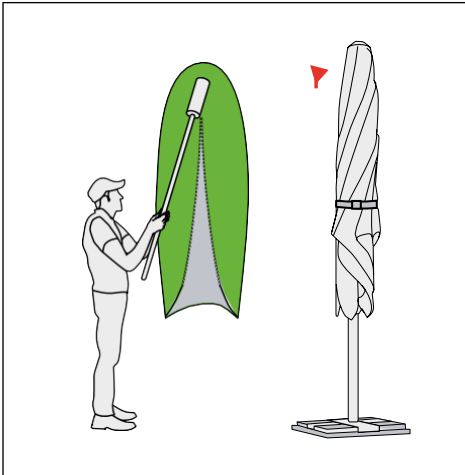
- 6 Turn the crank anticlockwise. OR
Use the remote control until the screen is almost closed.



- 7 Pull the cloth out from between the struts and put the cloth loops to one side to prevent the cloth from being pinched or damaged.



- 8 Secure the closed canopy with the webbing.



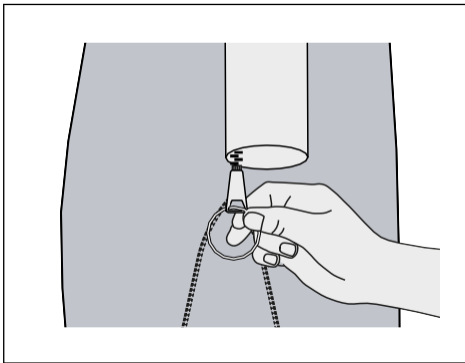
- 9 Fit the protective cover, see chapter ["Using the telescopic push rod \(optional\)", page 34.](#)



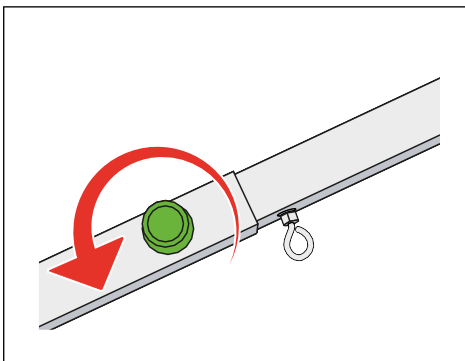
INFO

The cloth must be dry before applying the protective cover.

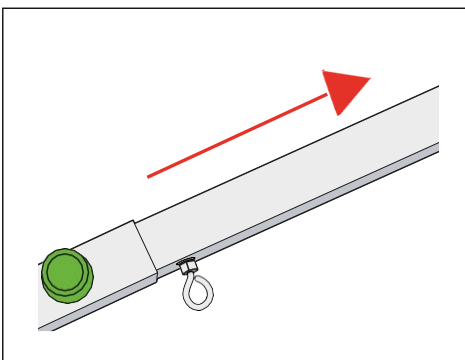
6.3 Using the telescopic push rod (optional)



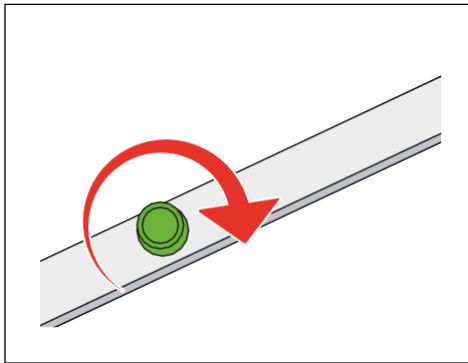
- 1 Attach the key ring to the zip of the protective cover.



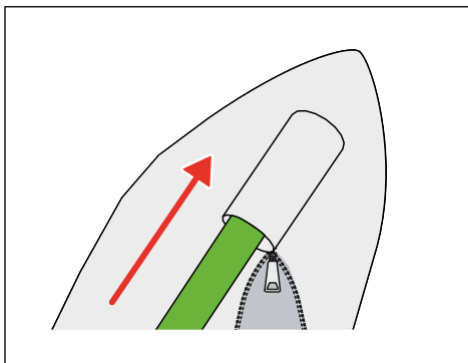
- 2 Open the knurled screw on the telescopic push rod.



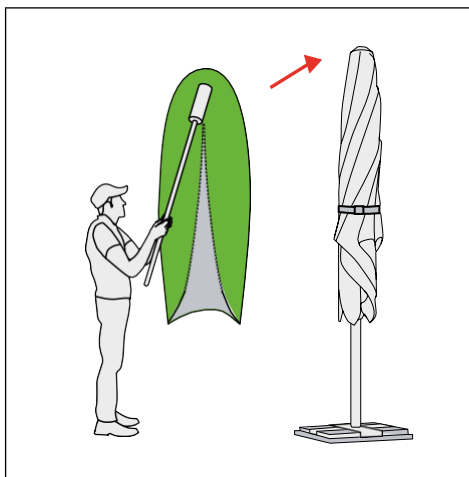
- 3 Raise the telescopic push rod to the required length



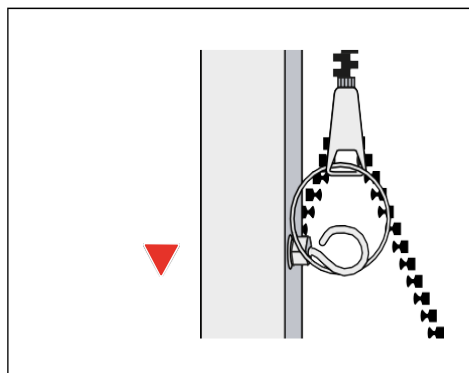
4 Tighten the knurled screw on the telescopic push rod.



5 Open the zip and insert the rod into the flap provided.



6 Remove the protective cover with the telescopic push rod .



7 Fit the eyebolt of the telescopic push rod into the key ring on the zip of the protective cover.

Disassembly

7 Disassembly

During the season, the mast can remain installed outdoors without hesitation. At the end of the season or if required, the mast is dismantled and stored. Dismantling is carried out in the reverse order to assembly.

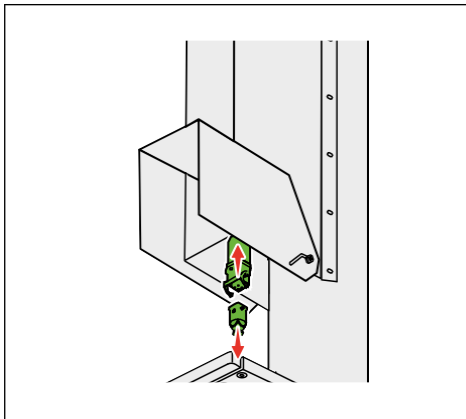


CAUTION

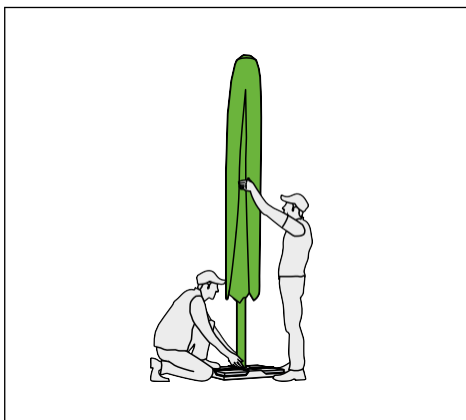
Risk of injury due to tipping

Carelessness can cause the umbrella to tip over with its heavy weight.

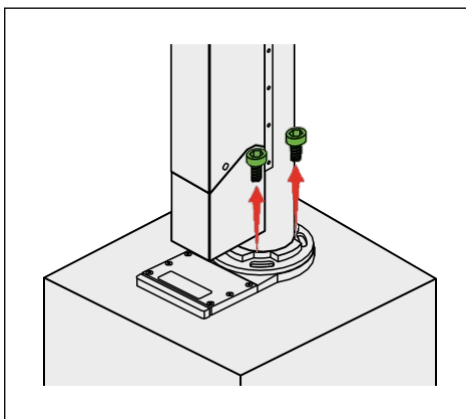
- 2 persons are always required for disassembly.
- The stand must be designed with sufficient ballast to prevent the closed canopy from tipping over in strong winds.



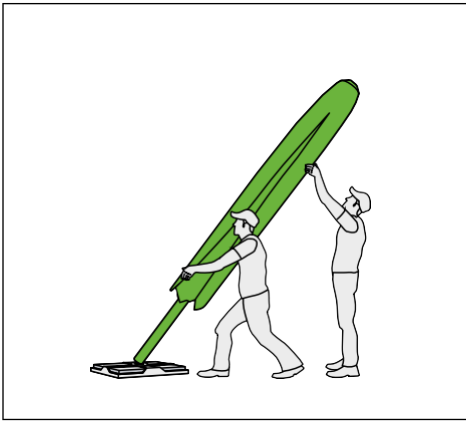
- 1 Disconnect the connector.
- 2 Dismantle and pack all add-on parts (optional) such as radiant heater, rain gutter, side tarpaulin, etc.
- 3 Close the [canopy](#) properly, see chapter "[Closing the canopy](#)", [page 38](#).
- 4 Dismantle the cover cap and, if necessary, the ball or solar element and store them properly.
To do this, proceed in reverse order, see chapter "[Installing the solar element \(optional\)](#)", [page 23](#).
- 5 Use protective cover as described, see chapter "[Using the telescopic push rod \(optional\)](#)", [page 34](#).



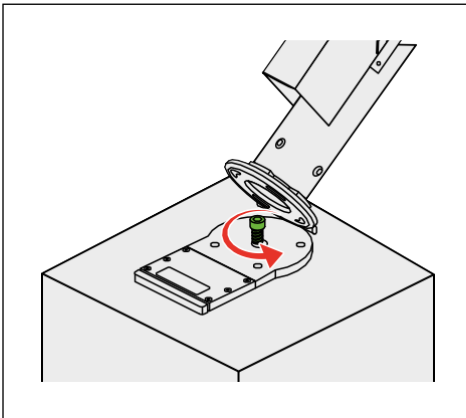
- 6 At least one person secures the parachute by holding on to it.



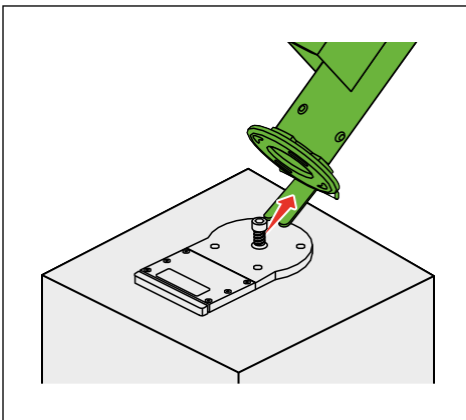
- 7 Loosen the fixing screws and washers on the base and store in a container.
If necessary, remove the cover of the ground socket.



8 Tilt the umbrella with at least 2 people.

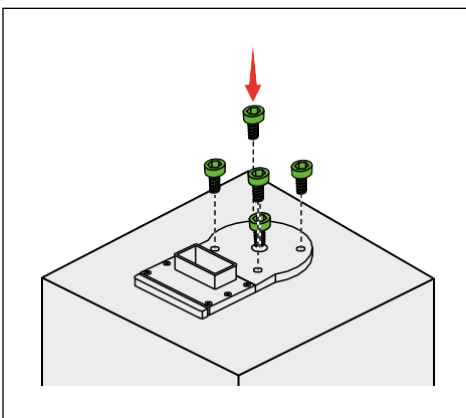


9 Loosen the screw in the middle of the ground socket.



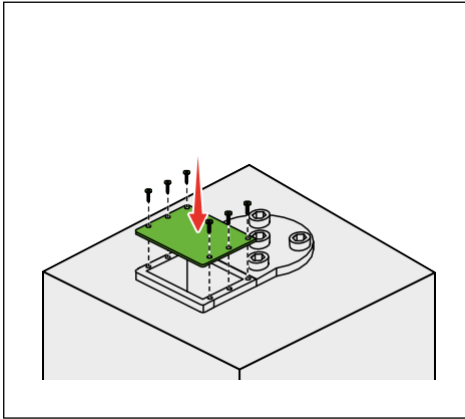
10 Pull the fork out of the screw.

11 Store the mast in a safe, protected place. 12 Remove professionally if necessary.



13 If the sunshade is not used for a longer period of time, screw in the 4 screws and the screw in the middle of the ground socket again to avoid dirt deposits in the holes.

Disassembly



- 14 If the umbrella is not used for a longer period of time, close the ground connection tank with the cover (without cable aperture) to avoid dirt deposits.

8 Maintenance and care

Radiant heater



NOTE

To clean the radiant heater, follow the instructions for the radiant heater.

Emergency shutdown

If the shade is equipped with optional radiant heaters, an emergency shut-off is always integrated.

Check emergency shutdown

- Check emergency stop for function:
 - Switch on the mounted radiant heaters.
 - Press the two switches integrated in the struts of the shade simultaneously to simulate the closing of the shade.
- Check whether the radiant heaters switch off.
If the radiant heaters do not switch off, contact the service.

Umbrella cloth



NOTE

Material damage to the canopy fabric due to incorrect cleaning and cleaning agents

The acrylic fabric of the canopy is impregnated and requires special cleaning and detergents.

- Always wash the shade cloth in cold water.
- Do not use a high-pressure cleaner to clean the canopy.
- Avoid strong friction during cleaning, e.g., with hard brushes or sponges.

Clean umbrella cloth

- Remove fallen leaves (foliage) immediately if possible (starting point for microbial infestation).
- Brush out the dirt dry at regular intervals.
- Treat light stains with lukewarm water and a soft brush.
- Treat stubborn stains by hand washing with a little commercial mild detergent, rinse well with clear water, allow to dry and re-treat with impregnating agent.

Mast

Clean and maintain the mast

- Wash the surfaces with a gentle detergent.
- Refresh the stainless-steel parts with commercially available stainless-steel polish.
- For corrosion protection, treat the joints and rollers with spray oil or silicone spray at regular intervals.

Anchorage

Check screws and foundation

- Check all screws at least once a year as well as the general strength; retighten screws if necessary.
- Check foundation or floor stand and look for cracks

Rain gutters

Clean and maintain rain gutters

- Keep the rain gutters free of dirt.
- If necessary, clean the gutter after soiling.
- Keep free of objects.

Check additional equipment

Check and maintain additional equipment

- Check the screw connections of the roller sets.
- Replace the batteries of the hand-held transmitter.
- When using Multicube, once a year re-glaze worn wooden surfaces with commercially available teak oil or oil suitable for outdoor furniture.

Storage

9 Storage



NOTE

Material damage due to rubbing of the umbrella cloth

Permanent flapping in the wind can damage the shade cloth by rubbing against the struts. No claims for damages can be made for this.

- Always secure the closed canopy with the strap.



NOTE

Property damage due to mould

If the protective cover is pulled over the damp cloth, mould will form.

- Only cover the protective cover when the cloth is completely dry.

The umbrella can be stored outdoors and in a protected, dry room. The following applies to both options:

- Secure the canopy with webbing.
- Allow the canvas and, if necessary, the side tarpaulins and rain gutters to dry completely for storage.
- Put on the protective cover.
- Store the side tarpaulins in a suitable container, e.g., in commercially available and closable KG pipes.

Outdoor storage



CAUTION

Risk of injury due to tipping

Carelessness and strong winds can cause the umbrella to tip over with its heavy weight.

- When using a mobile stand, it must be designed with sufficient ballast to prevent the closed umbrella from tipping over.

Storage in dry room

The following applies to storage in a dry room:

- Dismantle the umbrella for storage in reverse order
- Pack the umbrella in the box in which it was delivered.
- Store the umbrella horizontally in a dry room.

10 Troubleshooting

In case of malfunctions of the screen that cannot be remedied with the help of the following instructions, please contact us via our service hotline. You will find the contact details on the first and last page of this manual.



WARNING

For malfunctions of the radiant heater, follow the manual of the radiant heater.

The following malfunctions can occur when using the screen:

Problem	Cause	Remedy
230 V Motor stops in motion and must always be restarted/switches off again.	Motor has lost end position and is searching for upper and lower end point with low torque.	Reset the limit switch with a commercially available setting cable, e.g., by pressing the button.  Then move the motor to the upper and lower end positions. The motor switches off to torque.
The crank cannot be turned, jams	Gearbox defective	Gearbox exchange
Motor does not start (230 V).	- Hand-held transmitter battery is too weak - Plug connection not completely inserted. - Building security has triggered	- Change the battery of the remote control. - Check plug connections. - Wait 20 min. - Checking the building security.
The canopy can no longer be opened or closed. Motor does not start (230 V).	Motor thermal protection active.	Let engine cool down for 20 minutes and drive again
Solar drive hand-held transmitter does not work	Address lost	Set 230 V to 0 and disconnect the power supply from the solar element to the motor at the mast foot. Then reconnect the motor. Now the hand-held transmitter can be taught in again
LED lighting cannot be switched on.	Circuit breaker of the LED lighting has tripped.	Before switching on the LED lighting, open the shade completely.
Umbrella makes creaking noises	Screws on the umbrella base have come loose	Tighten the fastening screws on the foot Visual inspection of the screws on the screen
Crank turns without resistance	Power transmission in the drive train interrupted	Check drive train. Replace connecting screws.
Heater does not work	Safety switch tripped Supply line de-energised Switch on the housing still "off"	Umbrella not completely open Building security triggered Housing switch to "on"
Fabric tension on individual struts too low	Cloth has elongated	Loosen the screw at the tip of the strut, pull out the profile and fasten it again.



NOTE

If a fault is not listed or you are unsure, contact a specialist dealer

Warranty conditions

11 Warranty conditions

The following warranty conditions apply:



www.caravita.eu/warranty

12 Notes

Observe the general notes:



www.caravita.eu/notes



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