

Big Ben



CARAVITA®

Assembly and operating instructions

1 Foreword

Foreword

We are pleased that you have chosen our product. By purchasing a CARAVITA product, you have chosen quality made from the best materials and designed to meet the highest standards.

Read the instructions in this document carefully to set up the product safely. Always observe the safety instructions listed and do not perform any unauthorised modifications to the product.

Imprint

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CARAVITA GmbH
Hans-Wilhelm-Renkhoﬀ-Straße 2
D-97828 Marktheidenfeld
Phone: +49-8458-60389-0
Email: info@caravita.eu
www.caravita.de

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2 Introduction

2.1 Safety instructions

It is important for the safety of persons to follow the instructions. Failure to observe the instructions may result in personal injury and/or damage to property when using the product. Failure to comply shall release Caravita from liability.



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



- Read the instructions before installing and using the product!
- Observe the safety, setting, 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 use of the instructions

Target group

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

Work relating to the electrical connection of the components may only be carried out by a qualified electrician.

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

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

Contents

These instructions belong to the following product:
Caravita Big Ben with optional motor

2.3 Explanation of the signal words



DANGER

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



WARNING

Indicates a potentially 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 lead to product or property damage.

2.4 Basic safety instructions

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

Damage caused by improper handling or failure to follow the instructions is not covered by the warranty. No liability is assumed 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 firmly connected to a power supply. This can lead to hazards during repair work.

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



DANGER

Danger to life and limb if the sunshade falls over

The sunshade can tip and fall over due to weather conditions or mechanical impact with its heavy weight.

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



DANGER

Fire hazard due to flying sparks

The fabric of the sunshade is flammable.

- Do not use flames or open fire near the sunshade.



DANGER

Danger to life and limb from lightning strikes

The sunshade can become a lightning conductor.

- Never seek shelter under a sunshade during thunderstorms.



DANGER

Choking hazard 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 sunshade to tip over with its heavy weight.

- Two people are always required for assembly.
- The base must be designed with sufficient ballast to prevent the closed sunshade from tipping over in strong winds.



WARNING

Risk of injury to uninvolved persons

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

- Before opening the sunshade roof, ensure that no bystanders are within the opening radius of the sunshade roof.
- Always maintain visual contact with the sunshade as long as it is open.
- Only open the sunshade when there is no wind or the wind is only blowing lightly.
- The sunshade must not be opened by a higher-level controller.

Wind limits

The following table shows the maximum permissible wind speeds in kilometres per hour / Beaufort depending on the shape and size of the sunshade:

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 socket)	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	3.5 x 3.5 m	4 x 4 m	4.5 x 4.5 m	5 x 4 m	5.5 x 5.5 m	6 x 6 m
max. permissible wind (open, fastening with ground socket)	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*	3 x 4 m	3.5 x 4.5 m	4 x 5 m	4.5 x 5.5 m	5 x 6 m	5 x 6.5 m	5 x 7 m
max. permissible wind (open, fastening with ground socket)	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 socket)	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

* Big Ben sunshade 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 neighbouring parts.

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

Assembly preparation

Incorrect assembly can impair the safety, function and service life of the product. Persons may be injured and/or the product or neighbouring parts may be damaged.

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

3 Information about product

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

The Big Ben can be operated either manually using a crank handle or conveniently with a motor. The sunshade roof is made of easy-care material.

The Big Ben can be equipped with extras such as LED lighting, radiant heaters or a motorised drive and other extras. The sunshade is an ideal choice for anyone who wants to create a comfortable and attractive outdoor area.

Technical data

The products are exclusively customised and made to measure. Dimensions and weight vary depending on the model version.

The exact weight and size of the product can be found on 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 sun shading system that is used to protect against heat and glare in summer. The product is free-standing and is used to shade open spaces.

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

Misuse can result in considerable hazards.

Additional loads on the product due to suspended objects or cable tensioning can lead to damage or falling 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 name

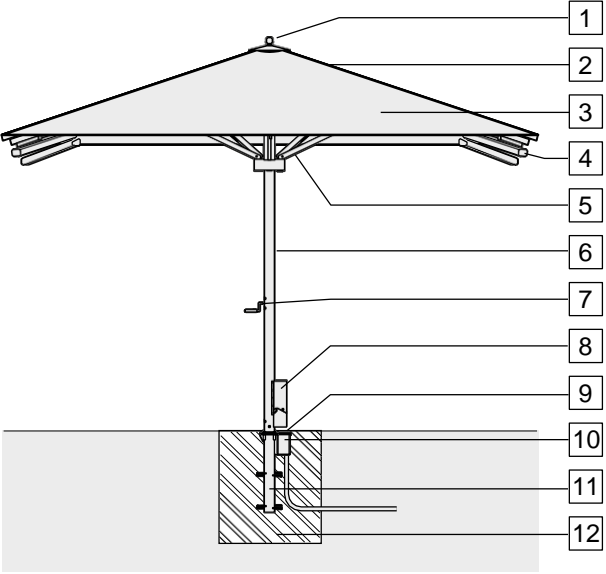
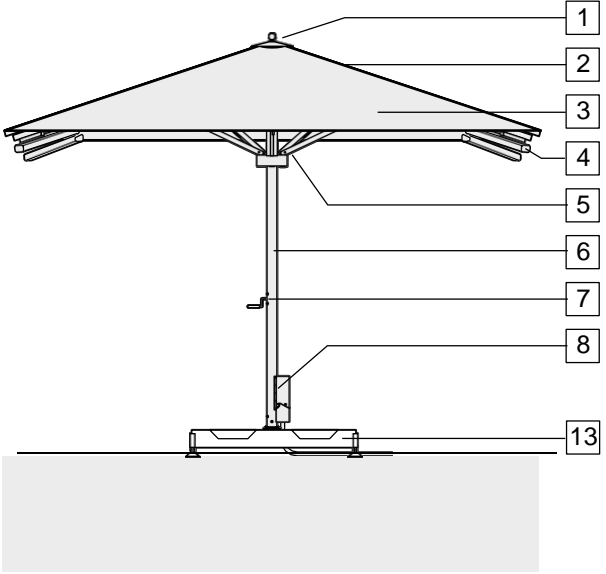
Fixed mounting	Assembly on mobile stand
	
<div><div>1</div><div>Cover cap</div></div> <div><div>2</div><div>Strut</div></div> <div><div>3</div><div>Sunshade fabric</div></div> <div><div>4</div><div>Radiant heater</div></div> <div><div>5</div><div>Support strut</div></div> <div><div>6</div><div>Pole</div></div> <div><div>7</div><div>Cranks</div></div>	<div><div>8</div><div>Connection box</div></div> <div><div>9</div><div>Mounting plate</div></div> <div><div>10</div><div>Base tank</div></div> <div><div>11</div><div>Base sleeve</div></div> <div><div>12</div><div>Concrete foundation</div></div> <div><div>13</div><div>Mobile plate stand "Dublin"</div></div>

Fig. 1: Part name

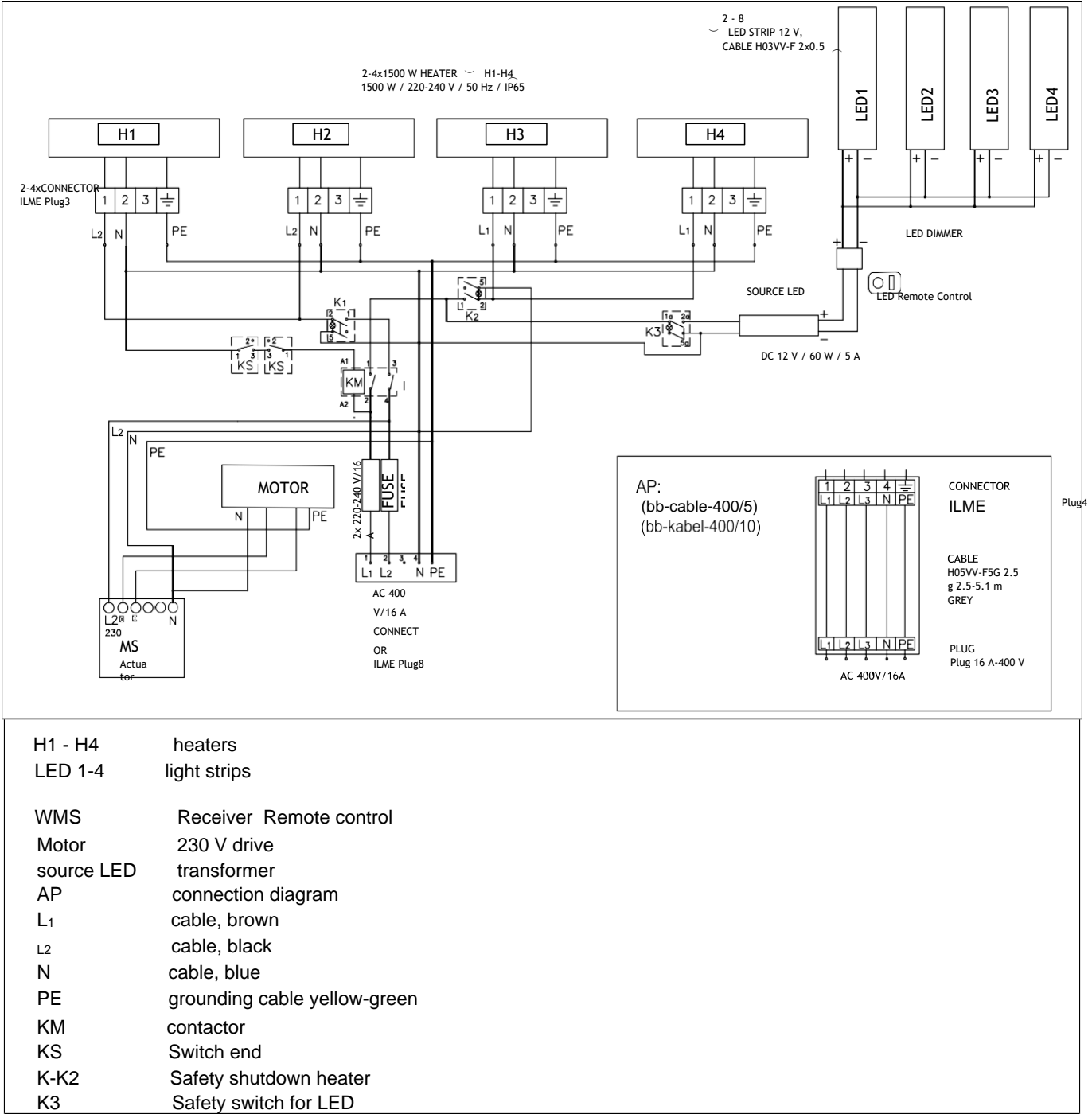
3.3 Data for electric drive

Parameters (motor drive without solar panel)	Value
Power consumption	1.00 A
Nominal voltage	230 V/50 Hz
Protection type	IP 44
Short-term operation (S2)	6 Min
Emission sound pressure level	LpA ≤ 70 dB(A) *

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

3.4 Electrical connection

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



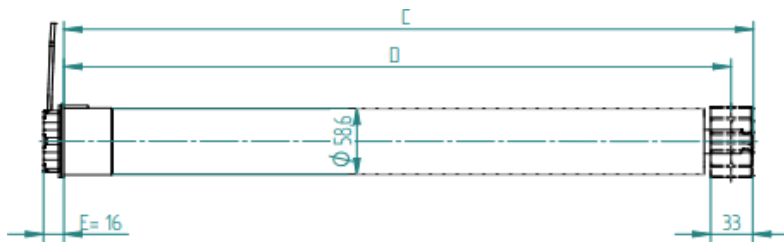
3.5 Data for solar

Data for solar

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

Size / type	Solar panel 10
Rated voltage [V]	12 (DC)
Nominal power [W]	10
Voltage at maximum power [V]	17
Current at maximum power [mA]	590
Connection box protection class	IP65

Parameters (motor drive with solar panel)	L868 DC
Rated power consumption [W]	135
Shaft diameter	63
Power consumption	8.00 A
Nominal voltage	12 V
Protection type 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
Protection class III	III
Connecting cable pluggable [m]	1.0
Item number	36403001



Size / type	Radio hand-held transmitter
Operating voltage [V]	3 (DC)
Channels	1
Battery type	2 x LR06 (AA Mignon)
Temperature range	0 to +55°C
Connection 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 result in serious injuries.

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



NOTE

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

We are 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 Unpacking the product



DANGER

Choking hazard 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 sunshade.

- Do not cut or tear the box when unpacking.

Remove the sunshade from the packaging

- 1 Check the packaging for damage.
- 2 Carefully cut the adhesive tapes and plastic straps with a knife without damaging the sunshade in the box.
- 3 Carefully unpack the sunshade 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 specialised dealer, forwarding agent or 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 Transporting the product

The product can be transported without additional aids.

Due to the weight and size of the product, 2 people are required for transport, so that one person carries the front end and one person carries the rear end of the sunshade.

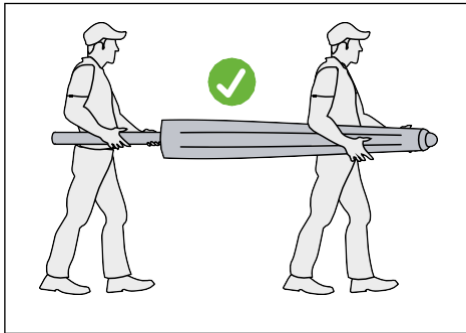


NOTE

Material damage due to cracks and bent struts

Careless transport can damage the sunshade roof.

- Do not pull the sunshade over the ground by the sunshade cover or the protective cover.
- Do not carry the sunshade by individual sunshade struts.



Hold the sunshade with both hands during transport.

4.3 Scope of delivery



INFO

- Check scope of delivery according to delivery note!
- Check parts for intactness!
- Compare the situation on site with the order data!
- Interrupt installation and contact WAREMA if parts are damaged or if the specifications do not correspond to the order!

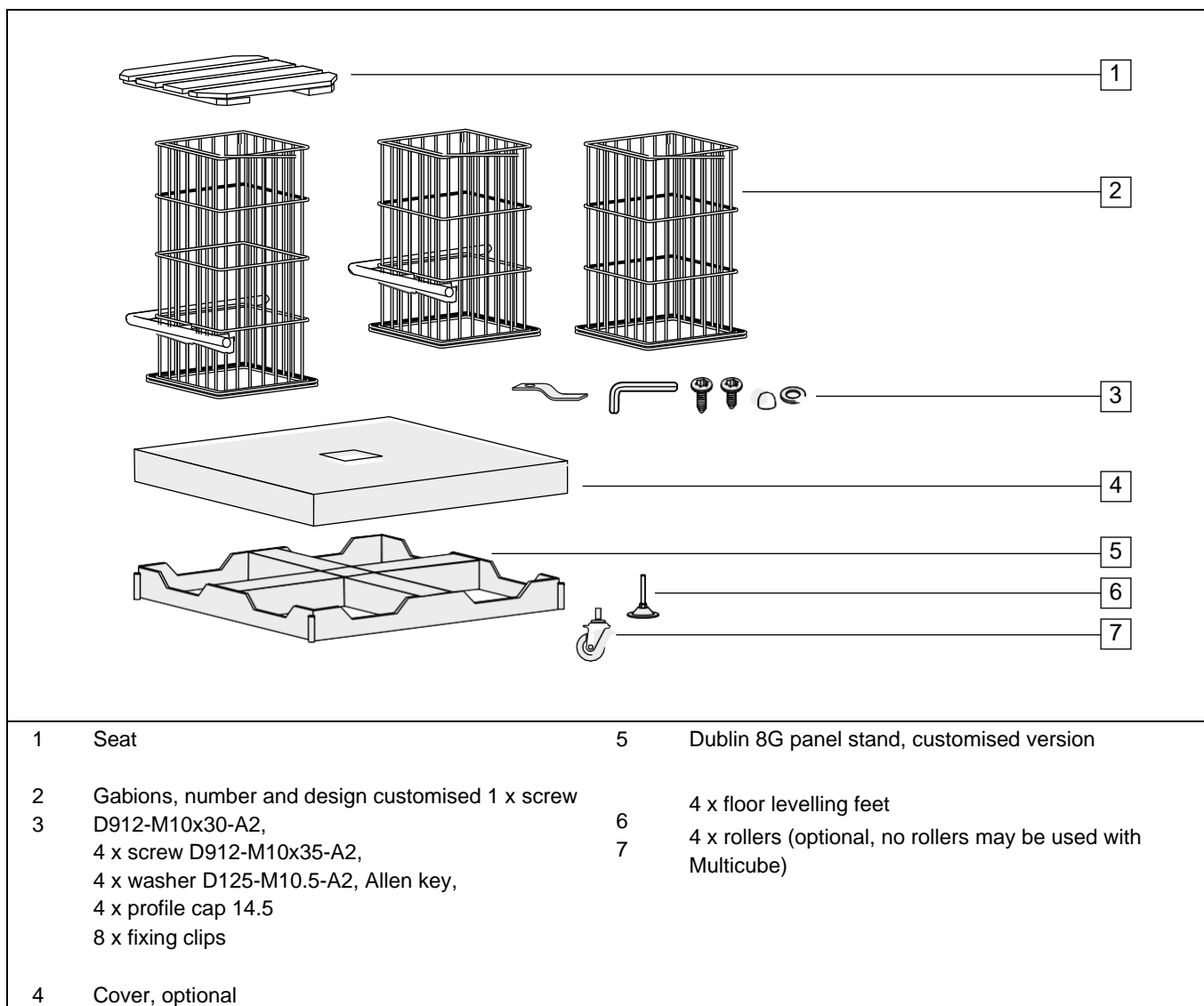
Assembly

Standard equipment scope of delivery:

An exploded view diagram of a sunshade assembly. The components are numbered 1 through 15. 1: A long, thin pole. 2: A sunshade roof with an optional ball on top. 3: A sunshade fabric. 4: A strap. 5: A protective case. 6: A telescopic pole. 7: Two cranks. 8: Screws for fixed assembly (included): 4 x M10x35 and 1 x M10x30. 9: An Allen key. 10: A base sleeve. 11: A cover box. 12: A cover with cable passage. 13: A cover. 14: A distance extension (customised dimensions) incl. assembly material. 15: Assembly instructions.

1	Pole	9	Allen key
2	Sunshade roof, optional ball	10	Base sleeve
3	Sunshade fabric	11	Cover box
4	Strap	12	Cover with cable passage
5	Protective case	13	Cover
6	Telescopic pole	14	Distance extension (customised dimensions) incl. assembly material
7	Cranks	15	Assembly instructions
8	Screws for fixed assembly (included): 4 x M10x35 and 1 x M10x30		

Scope of delivery for assembly on mobile stand:



Assembly

Options included in the scope of delivery:

The diagram illustrates the components included in the scope of delivery, numbered 1 through 6. Component 1 is a radiant heater with a mounting bracket. Component 2 is a solar element. Component 3 is an M8 nut with an enclosed threaded pin. Component 4 is a side tarpaulin with fastening material. Component 5 is a rain gutter with fastening material. Component 6 is a remote control for the motor and lighting.

1	Radiant heater incl. screws and pre-assembled mounting	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 threaded pin M8 x 60	6	Remote control for motor and lighting

4.4 Position of the product

The figure shows an example of a sunshade with base sleeves and screw-on stand (optional):

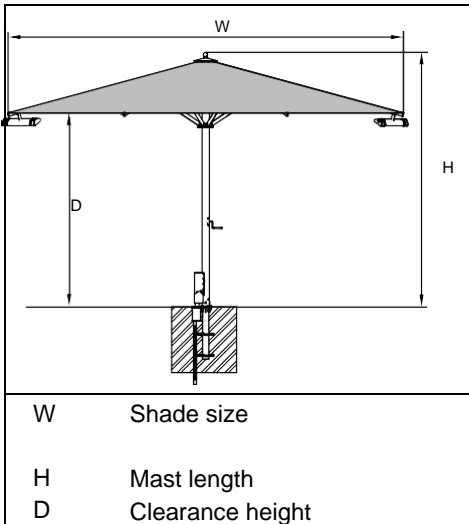


Fig. 2: Big Ben order details

Observe the distances to be maintained when setting up sunshades in groups:

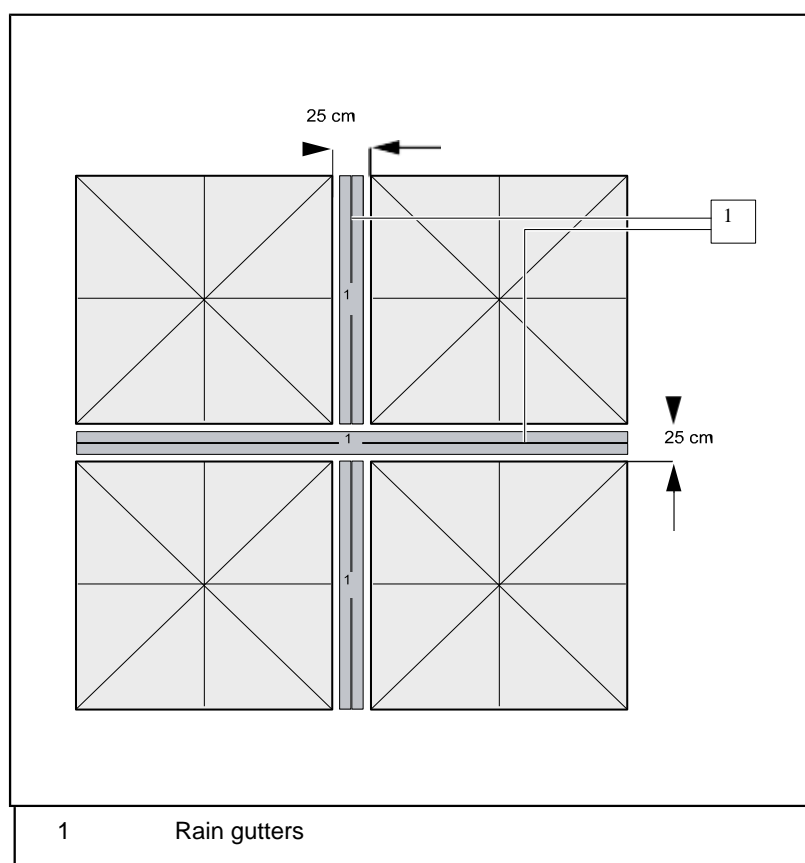


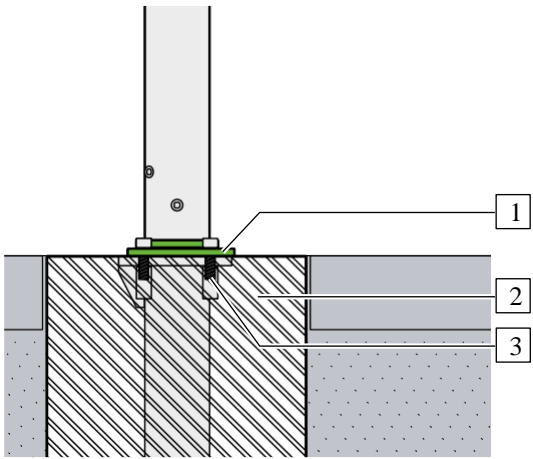
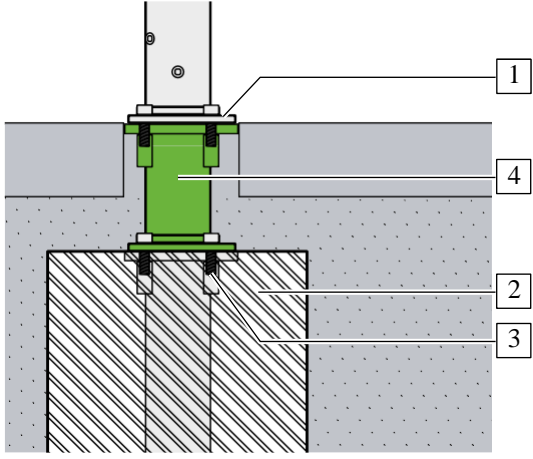
Fig. 3: Spacing for sunshades in groups

Post mounting types INFO



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

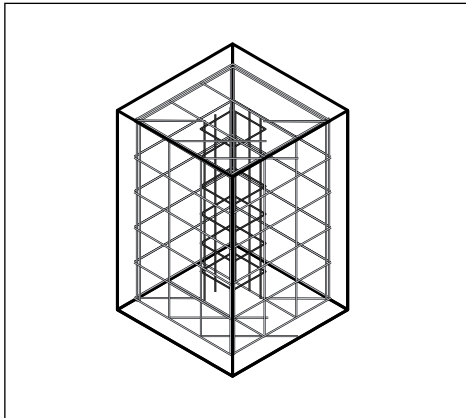
- ▶ Pole
- ▶ Base sleeve, if applicable
- ▶ Electrical connections, if applicable

Base assembly directly on foundation [2]	
	<p>The base plate [1] is fastened directly to the foundation [2] using suitable fastening material [3].</p>
Base assembly with distance extension [4]	
	<p>Fasten the distance extension [4] to the foundation [2] using suitable fastening material [3]. Attach the base plate [1] to the distance extension [4].</p>

i INFO

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

4.5 Types of base connection



INFO

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

The crank is always located opposite the electrical connection.

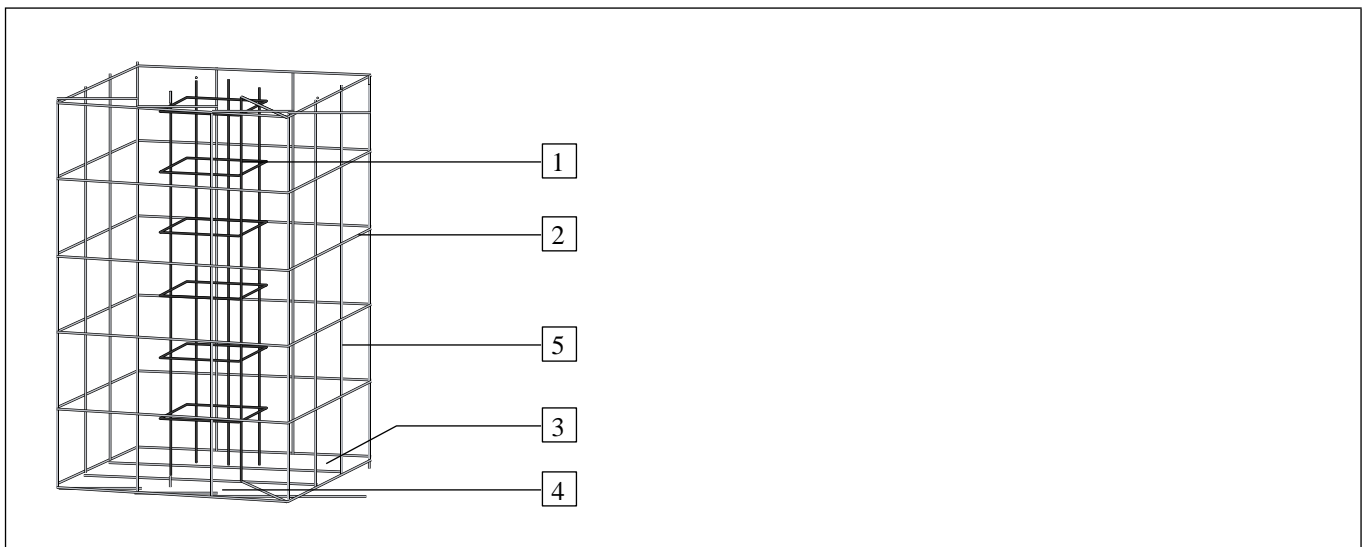
4.6 Installing the base sleeve with base tank



INFO

The procedure for the floor connection used must be observed.

Binding reinforcement



- | | |
|---|-------------------------------------|
| 1 | Bracket R 188A |
| 2 | Bracket Ø 8/20 (6 pieces) |
| 3 | Bracket Ø 8/20 (1 piece per corner) |

- | | |
|---|---------------------------|
| 4 | Bracket Ø 8/20 (4 pieces) |
| 5 | Bracket Ø 8/20 (4 pieces) |

Fig. 4: Binding reinforcement

■ Binding reinforcement.

Position of the base sleeve

- i INFO**
When setting the base sleeve in concrete, note the desired alignment of the sunshade. The sunshade can only be attached to the base sleeve in the orientation specified here.
Pay particular attention to the alignment of rectangular sunshades: the position of the short and long sides is already determined by the alignment of the sleeve!

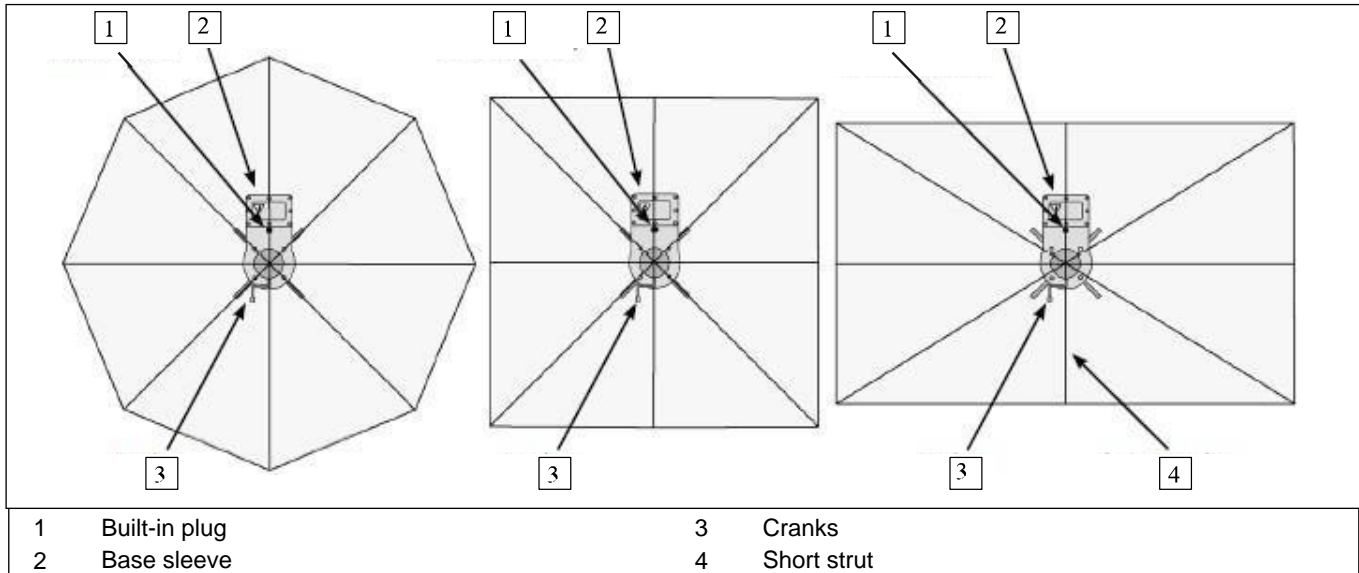


Fig. 5: Note base sleeve for alignment

Embed base sleeve with base tank in

- i concrete INFO**
Foundations for loose sand or gravel-sand soils: for sandy soils, further verifications and possibly larger foundations are required.

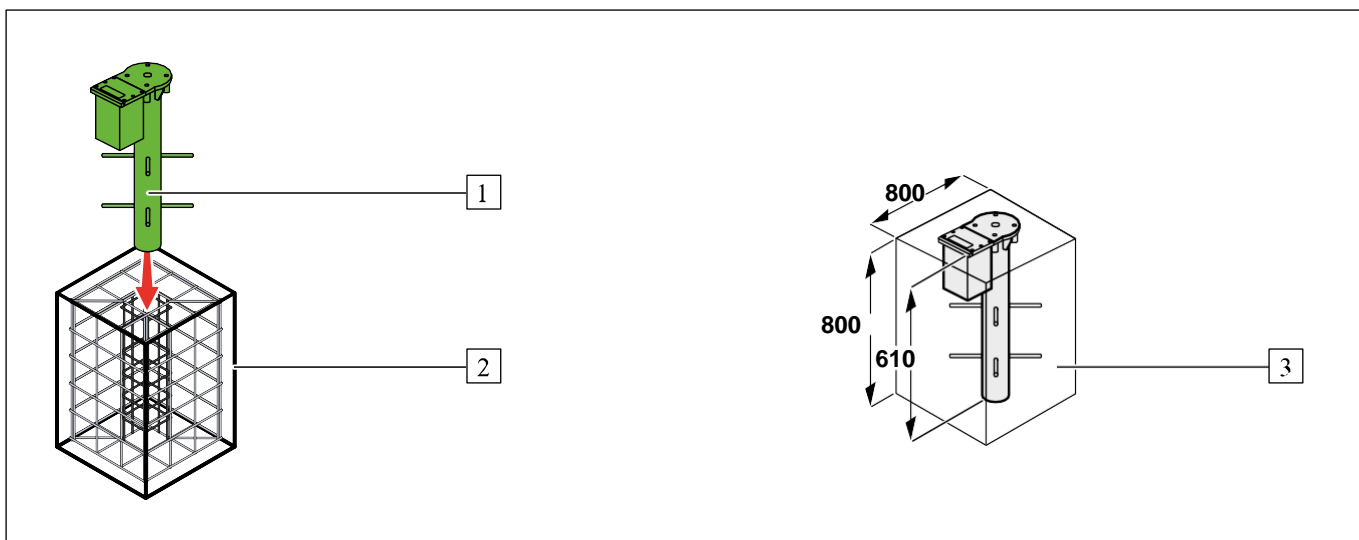


Fig. 6: How to set the base sleeve in concrete

- 1 Base sleeve
- 2 Reinforcement
- 3 Foundation hole

- Excavate the foundation hole [3].
- Insert the reinforcement [2] into the foundation hole [3].
- Insert base sleeve [1] into foundation hole [3]. The specified depth (800 mm) must be observed.
- Pour the foundation using at least C20/25 concrete 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 base tank:

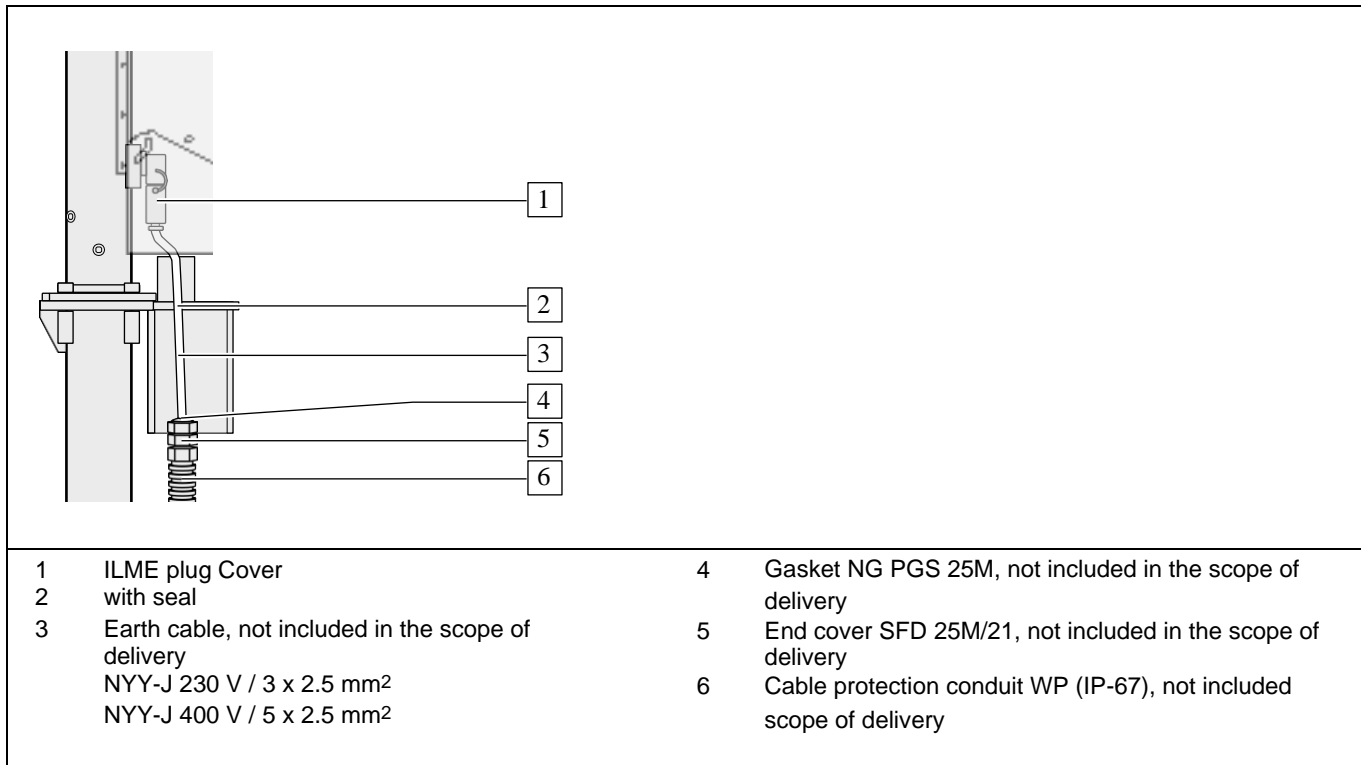


Fig. 7: Connecting the underground cable

4.8 Installing mobile stands

The product is difficult to move without additional aids due to the weights. Roller sets can be fitted or the product can be moved with a pallet truck for relocation.

Fitting the panel support Dublin



DANGER FROM ELECTRICITY

Electric shock due to damaged cables

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

- Only use cables suitable for damp rooms.
- Protect cables from damage and crushing using 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 plates.

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

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



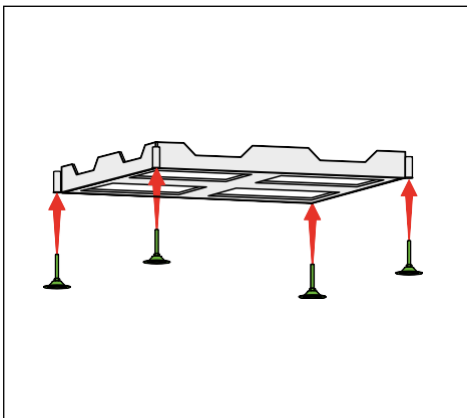
WARNING

Crushing of limbs in sunshade parts.

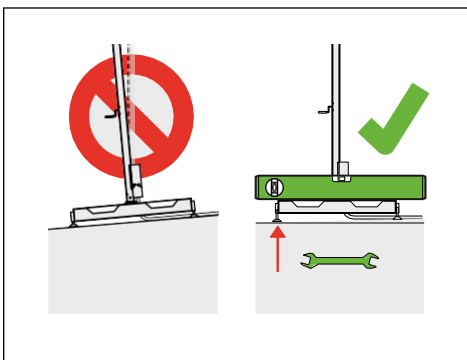
Fingers or feet can be crushed if they are trapped between the roller and the stand or floor.

- As soon as the mobile stand has reached its final position, press in the castor lock.
- Observe the weight limit for roller assembly of max. 320 kg total weight for stand and sunshade.
- Observe the weight limit for assembly with floor levelling feet of max. 550 kg total weight for upright, sunshade and additional weights.
- Ensure that the route is free of obstacles.

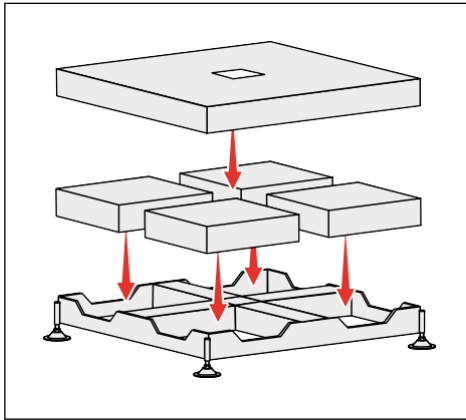
- 1 Place the plate stand at the desired installation location and align it.



- 2 Screw in the 4 rollers or the 4 floor levelling feet and tighten with the screws supplied.
Due to the high weights, no rollers may be fitted to Multicube.



- 3 If floor levelling feet have been fitted, use them to level the plate stand.



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

4.9 Assembling the solar panel (optional)

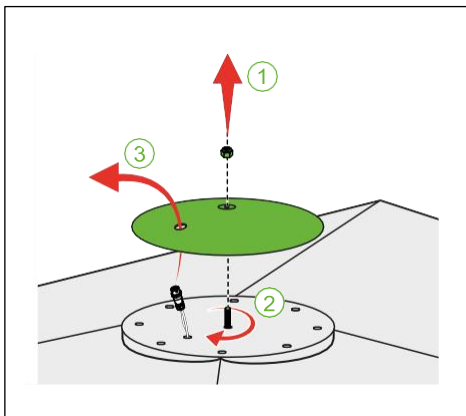
The solar element consists of a metal box with rechargeable batteries, a control unit and a fuse. The electricity generated runs via a cable from the solar element, along the inside of the pole to the motor at the base of the pole.



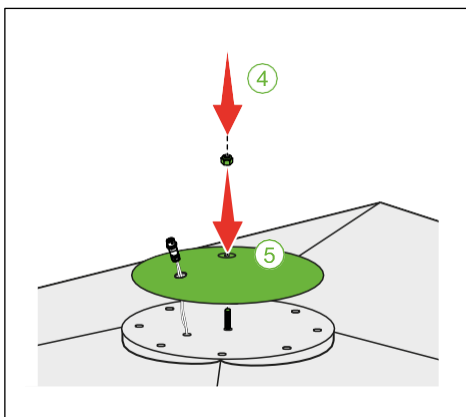
NOTE

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 version, the solar element must be assembled at the top of the pole:

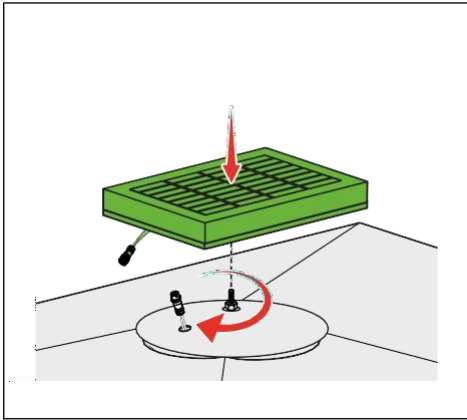


- 1 Remove the cover cap (1) and screw in the enclosed threaded pin (2).
- 2 Thread the cable through the hole in the cover cap so that it only protrudes a few centimetres (3).

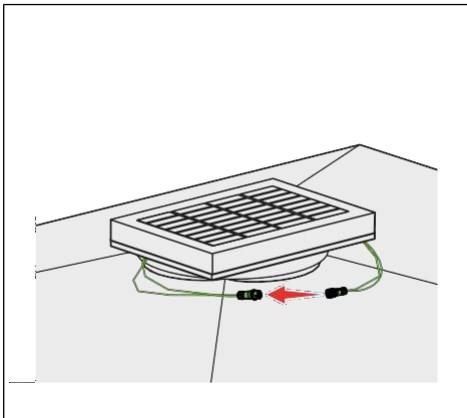


- 3 Replace the cover cap (5).
- 4 Screw the nut onto the threaded rod and tighten (4).

Assembly



5 Screw the solar element onto the centre of the threaded rod.



6 Connect the two plug ends.

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

NOTE
The solar element requires approx. 20 - 30 minutes charging time to ensure initial opening of the sunshade. The batteries are pre-charged, but discharge over time.

Operation via power supply unit

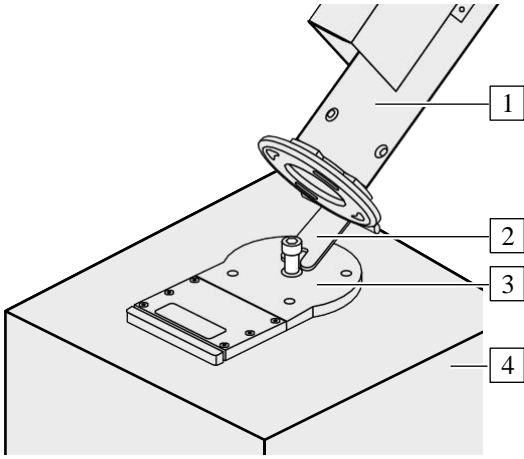
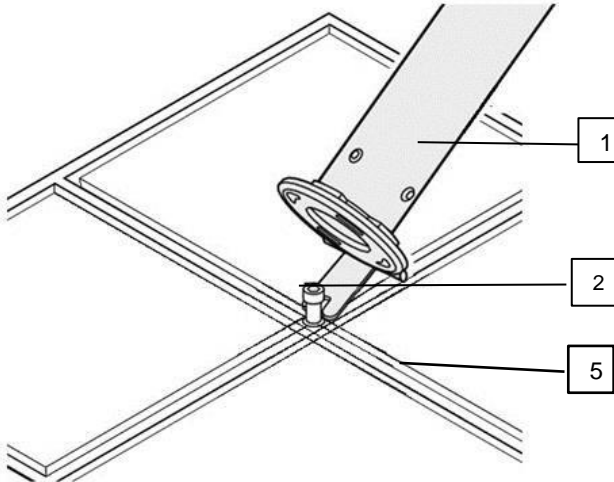
If the sunshade cannot be operated using the batteries, it is possible to switch to power supply operation.

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

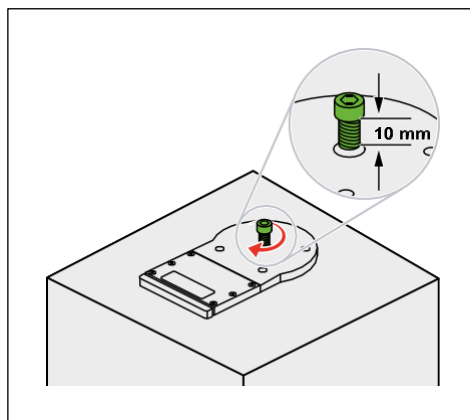
4.10 Set up and attach the sunshade

i INFO

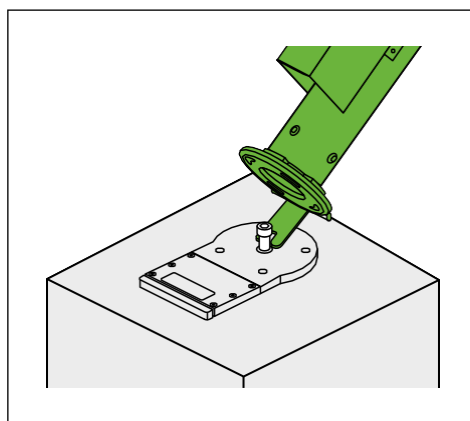
- For safety reasons, set up the sunshade with at least 2 people.
- Prepare the mobile stand or base sleeve according to the manufacturer's instructions.
- The mobile stand must be designed with sufficient ballast.
- Provide a stepladder.
- Have the stainless steel screws and the Allen key included in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

Fixed assembly	Assembly on mobile stand
	
<div> <div>1</div> <div>Pole</div> </div> <div> <div>2</div> <div>Slide shoe</div> </div> <div> <div>3</div> <div>Base plate for fixed assembly</div> </div> <div> <div>4</div> <div>Concrete foundation</div> </div> <div> <div>5</div> <div>Mobile stand</div> </div>	

The following step-by-step instructions show an example of how to erect the pole on a solid surface:

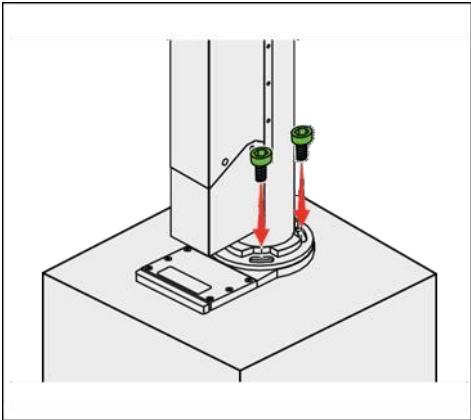


- 1 Screw the screw (M10x30) into the centre hole of the base sleeve. Screw must protrude 10 mm.



- 2 Lay the sunshade on the ground with the lower end of the pole pointing towards the base sleeve.
- 3 Lift the sunshade and thread the slide shoe into the centre screw.
- 4 Set up the sunshade vertically.

Assembly



- 5 Screw the sunshade to the base sleeve using screws (M10x35).
- 6 Align the sunshade and tighten the screws.

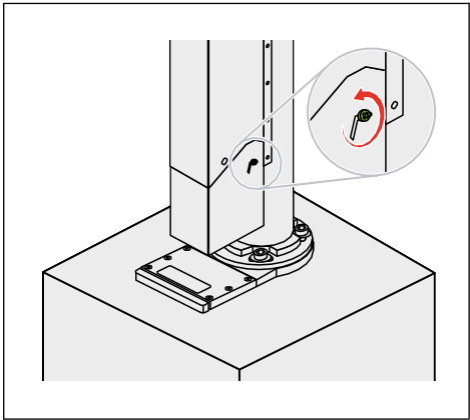
4.11 Connecting the sunshade (optional)

Models with electric drive (optional) must be connected.

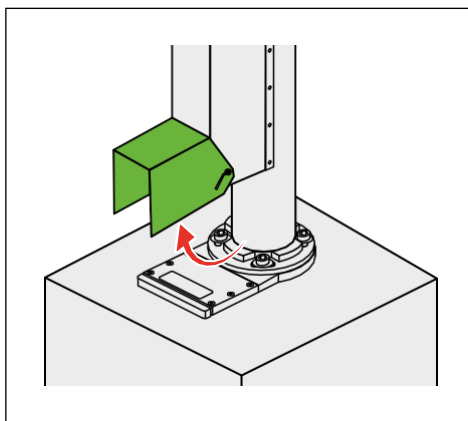
Fixed assembly	Assembly on mobile stand
A technical line drawing of a fixed assembly. It shows a vertical pole with a sunshade. A connection box (1) is attached to the pole, a protective cover (2) is attached to the connection box, and a base tank (3) is attached to the bottom of the pole. The entire assembly is mounted on a solid surface.	A technical line drawing of an assembly on a mobile stand. It shows a vertical pole with a sunshade. A connection box (1) is attached to the pole, a protective cover (2) is attached to the connection box, and a mobile stand (4) is attached to the bottom of the pole. The mobile stand is shown with four legs.

- 1 Connection box
- 2 Protective cover
- 3 Base tank
- 4 Mobile stand

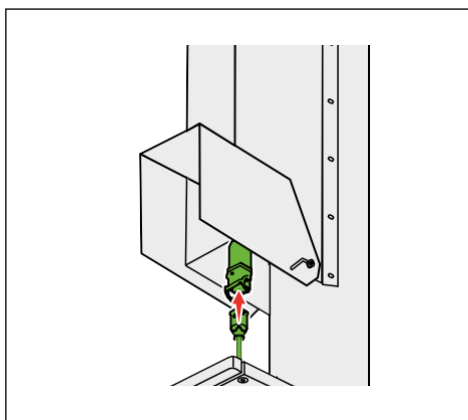
The following step-by-step instructions show an example of how to connect a sunshade to a solid surface:



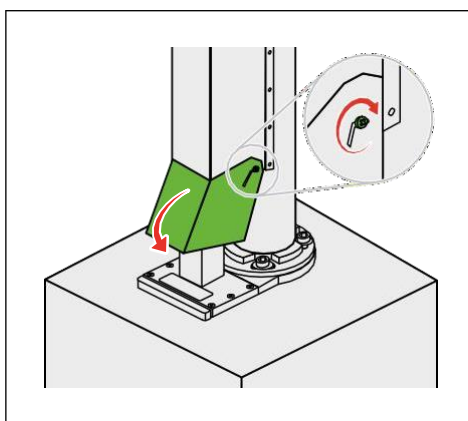
- 1 Unscrew the screw from the protective cover!



- 2 Swivel the protective cover upwards!



- 3 Insert the ILME plug into the connection box!



- 4 For fixed assembly, assemble the cover with cable passage.
- 5 Close the protective cover and secure with a screw!
- 6 Assemble and connect any existing radiant heaters in accordance with the enclosed operating instructions.
The radiant heaters and any existing lights are also connected to the power supply via the ILME plug.
- 7 Attach any additional equipment such as rain gutters or side tarpaulins.

4.12 Assemble Multicube (optional)

Assemble the Multicube



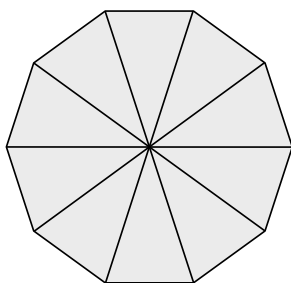
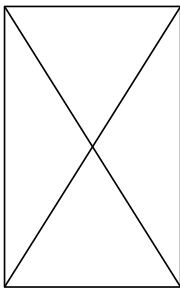
WARNING

Crushing 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 open spaces while moving.
- Do not place any limbs under raised loads.
- Only move the Multicube professionally and with the lifting device provided for this purpose.
- Wear safety shoes.
- Always work with 2 people so that one person can secure the sunshade against tipping.
- Observe the weight limit for assembly with floor levelling feet of max. 550 kg total weight for upright, sunshade and additional weights.
- Do not assemble rollers due to the high weights.

The following table shows the recommended weights for mobile sunshade stands. The figures are for guidance only. For higher loads, e.g. in wind-exposed locations, Caravita recommends using base sleeves or multicubes. The specified weights can be reduced by using commercially available floor anchors with load transfer.

Shape of the sunshade	Size in m	Recommended weight in kg	Possible with these sunshade stands
	up to 3.5	90	Dublin 8 with 4 paving slabs ¹
	up to 4	170	Dublin 8 with 8 paving slabs ¹
	up to 4.5	250	Dublin 16 with 12 paving slabs ¹
	up to 5	290	Dublin 16 with 16 paving slabs ¹
	up to 5.5	340	Dublin 16 with 16 paving slabs ¹
	up to 6 m	400	Dublin 24 with 16 paving slabs ¹
	up to 6.5	450	Dublin 24 with 16 paving slabs ¹
	up to 7	500	Dublin 24 with 24 paving slabs ¹
	up to 3.5 x 3.5	90	Dublin 8 with 4 paving slabs ¹
	up to 4 x 4 / 4 x 2 / 4 x 3	170	Dublin 8 with 8 paving slabs ¹
	up to 4.5 x 4.5 / 5 x 3	290	Dublin 16 with 16 paving slabs ¹
	up to 5 x 5 / 5 x 4 / 6 x 3	390	Dublin 24 with 16 paving slabs ¹
	up to 7 x 5	470	Dublin 24 with 24 paving slabs ¹

1 Standard concrete paving slabs 40 x 40 x 5 cm weighing approx. 18.4 kg

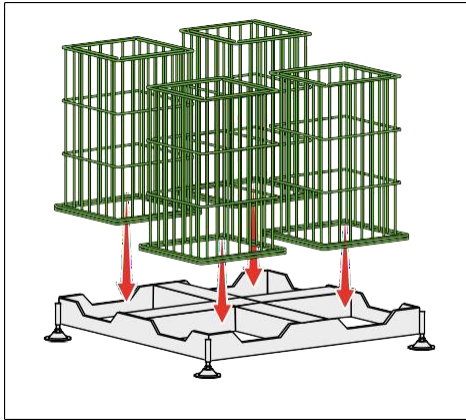
- 1 Set up the plate stand as described.



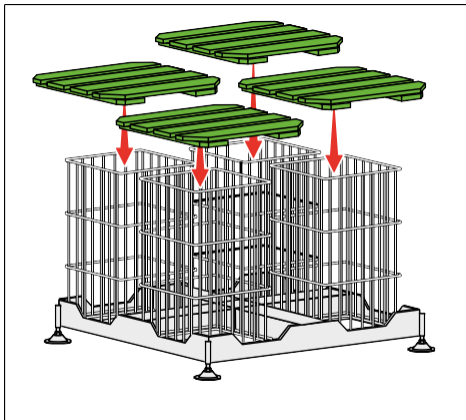
NOTE

Due to the potentially high weight of the product, only floor levelling feet may be assembled.

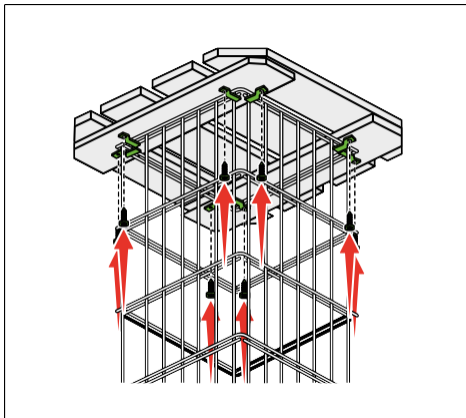
- 2 Set up the pole, see chapter [4.10 "Setting up and fastening the sunshade"](#).



- 3 Insert the gabions into the openings provided.
- 4 Fill the gabions. Observe the weight recommendations in the table above.



- 5 Place the wooden supports in the centre.



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

Use lifting device for pallet truck



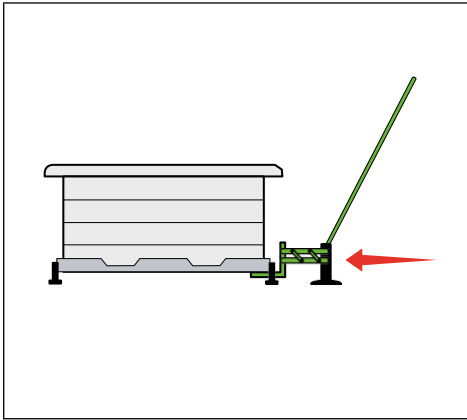
DANGER DUE TO CURRENT

Electric shock due to damaged cables

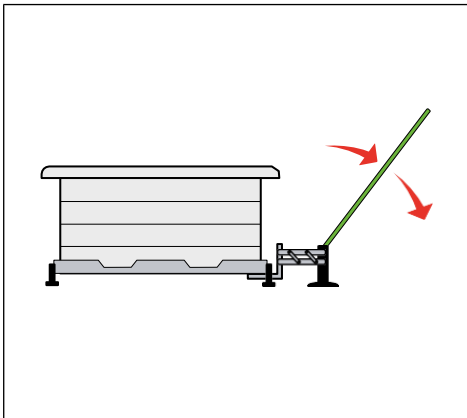
When moving the plate stand with the power cable connected, these can be run over and damaged.

- Protect cables from damage and crushing using protective devices.
- Disconnect the plug from all poles 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.

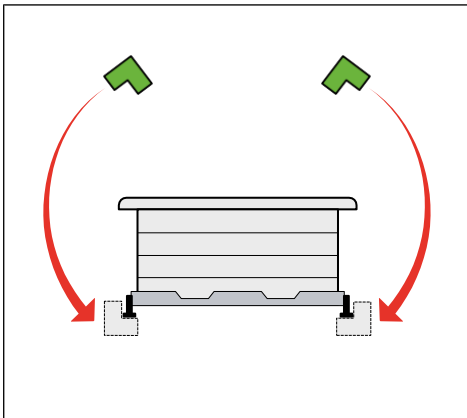
Assembly



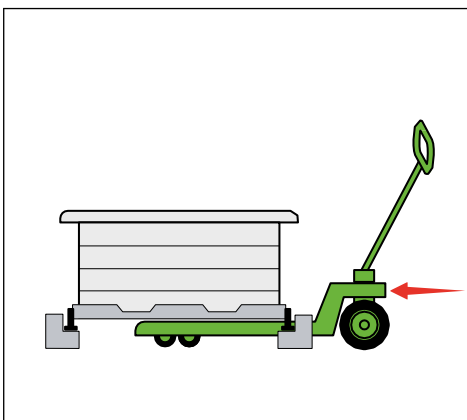
- 1 Slide the lifting device under the Multicube.



- 2 Lift the Multicube using 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 pallet truck.

4.13 Assemble rain gutters and side tarpaulins (optional)

Assembling rain gutters

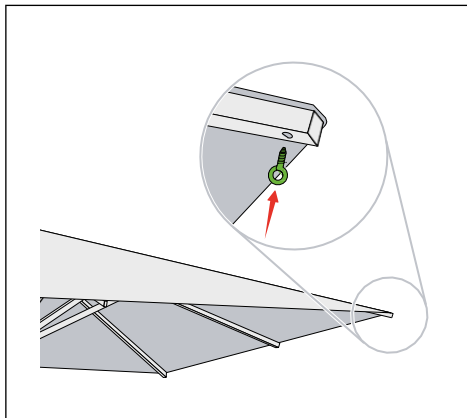
Optional rain gutters can be assembled on the sunshade to prevent uncontrolled dripping of rainwater.



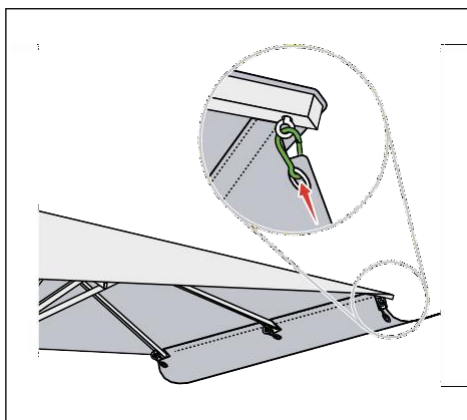
NOTE

Although rain gutters can bridge the 25 cm gap between two sunshades, they do not provide complete water protection in this area. Splash water cannot be completely avoided.

Only the edges of two sunshades can be bridged with a rain gutter. The rain gutter cannot be used for several sunshades assembled in a row.



- 1 Before assembly of the rain gutter, position the long fabric loop on the outside of the sunshade to determine the drainage direction.
- 2 Screw the screw-in hooks into the rivet threads at the ends of the struts.



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

Assemble side tarpaulins

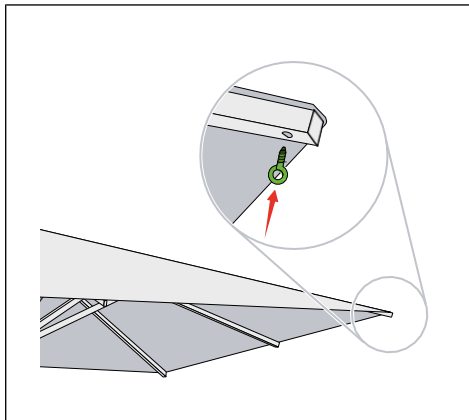
Side tarpaulins can be optionally assembled on the sunshade to provide greater protection from the sun.



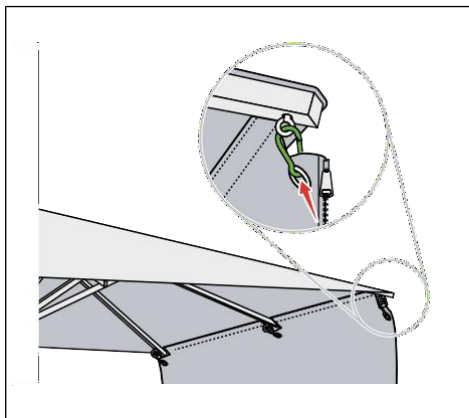
WARNING

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

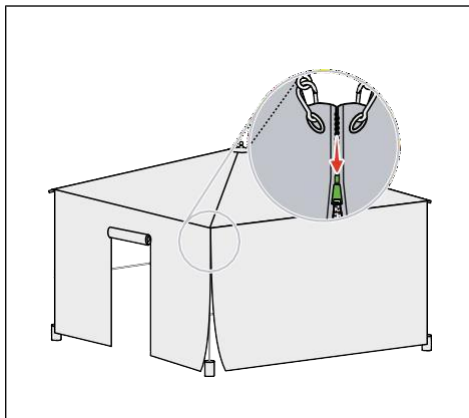
Assembly



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



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



- 5 Connect the individual side tarpaulins with the zip fasteners.

5 Putting into use



WARNING

Risk of injury due to improper use of the sunshade. Improper use can result in personal injury.

- Do not reach into openings on the product during commissioning.
- Do not hang any foreign objects on the sunshade that are not expressly mentioned in the instructions.
- Remove snow or other external contamination.
- Close the sunshade in case of high wind loads.
- Before opening the sunshade roof, ensure that there are no bystanders within the opening radius of the sunshade roof.
- Keep children away from the controls.



CAUTION

Material damage due to improper use of the sunshade.

Improper use can damage the sunshade.

- Do not light an open fire under the sunshade.
- Remove snow or other external contamination.
- Close the sunshade in case of high wind loads.
- Do not hang on the sunshade or other components.
- Sunshade can tip over if you are not careful.
- Do not hang any foreign objects on the sunshade that are not expressly mentioned in the instructions.
- Remove obstacles from the travelling area.
- Do not force the sunshade open.



- 1 Remove the protective case.
- 2 Plug in the ILME connector, see chapter [“Connecting the sunshade \(optional\)”, page 26.](#)
- 3 When operating via the solar element, first charge the solar element.
- 4 Open the sunshade, see chapter [“Opening the sunshade roof”, page 36.](#)
- 5 If present, attach the battery-operated light in accordance with 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

Risk of crushing due to carelessness when operating!

Persons in the travelling area may be injured.

- Keep travelling area clear of people!
- Keep children away from the controls!

Operation via 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 the sunshade roof

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



WARNING

Risk of injury to uninvolved persons

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

- Before opening the sunshade roof, ensure that no bystanders are within the opening radius of the sunshade roof.
- Always maintain visual contact with the sunshade as long as it is open.
- Only open the sunshade when there is no wind or the wind is only blowing lightly.
- The sunshade must not be opened by a higher-level controller.



WARNING

Risk of injury to uninvolved persons from flying cranks

If the sunshade is opened or closed using the remote control while the crank is inserted, it can be ejected.

- When using the remote control, ensure that the crank handle is NOT plugged in.



INFO

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

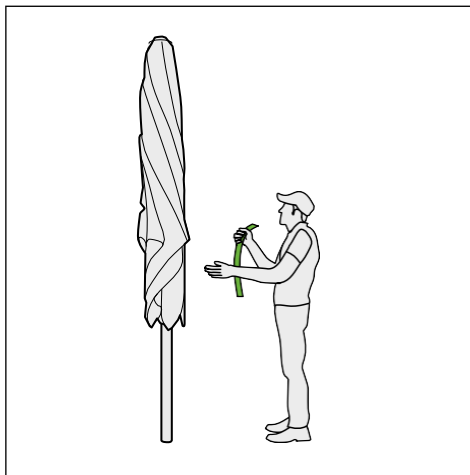


NOTE

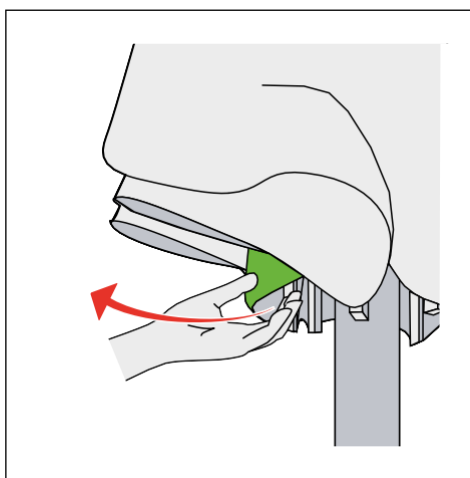
Material damage due to incorrect pulling apart of the struts

- If the sunshade does not open or close easily, rectify the problem via chapter [10 "Troubleshooting"](#) or call our service hotline.

- The sunshade is securely fastened in the base sleeve or mobile stand.

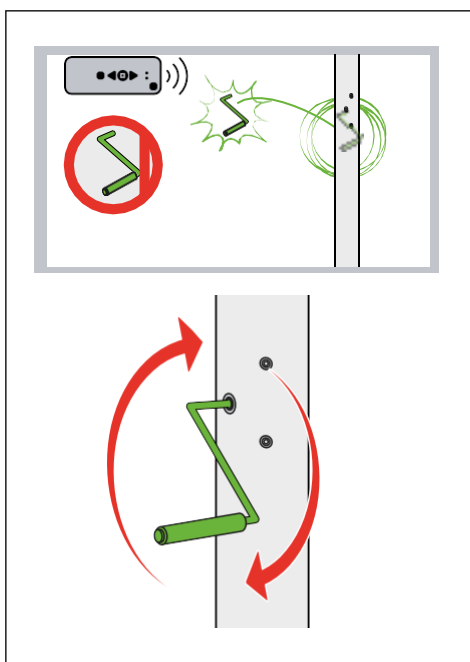


1 Remove the strap from the sunshade roof.



2 Pull the struts slightly outwards.

► The struts are loosened.



3 Insert the crank into the device on the pole. OR
If available, use the remote control to start the electric motor.

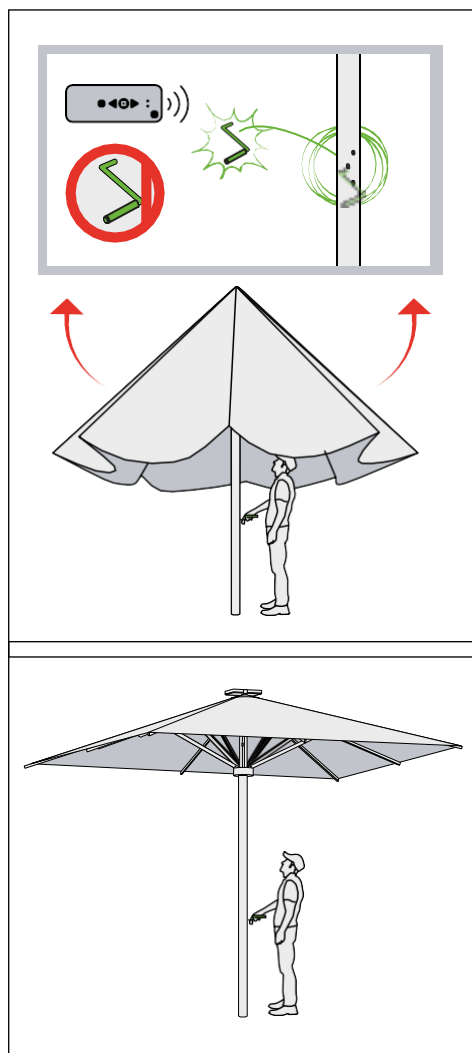


WARNING

Risk of injury to uninvolved persons from flying cranks

If the sunshade is opened or closed using the remote control while the crank is inserted, it can be ejected.

- When using the remote control, ensure that the crank handle is NOT plugged in.



- 4 Turn the crank anti-clockwise to open the sunshade roof. Wait until the fabric is taut.
OR
Use the remote control to open the sunshade roof. Wait until the fabric is taut.



INFO

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

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

6.2 Close sunshade roof



WARNING

Risk of injury to uninvolved persons from flying cranks

If the sunshade is opened or closed using the remote control while the crank is inserted, it can be ejected.

- When using the remote control, ensure that the crank handle is NOT plugged in.



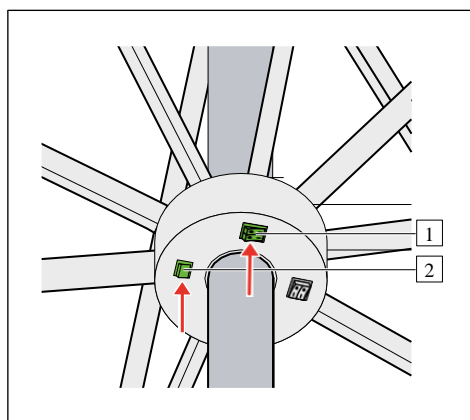
NOTE

Material damage due to abrasion of the sunshade fabric

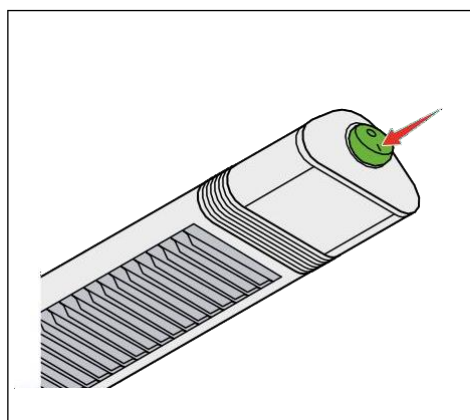
Permanent flapping in the wind can damage the sunshade fabric by rubbing against the struts. No claims for damages can be asserted for this.

- Always secure the closed sunshade roof with the strap.

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



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



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



WARNING

Risk of burns on hot surfaces!

There is a risk of burns on surfaces during operation and after switching off.

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

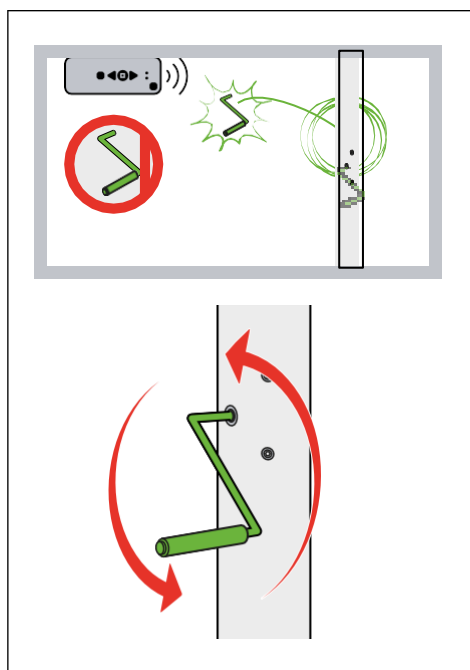


CAUTION

Fire hazard due to hot surfaces.

The fabric can catch fire if it comes into contact with the hot surfaces of the radiant heaters.

- Stop retracting the sunshade immediately and extend it again.
- Check and switch off the radiant heater.
- Retract the sunshade again.
- Pull the plug out of the radiant heater in an emergency.
- Check the emergency shutdown at least once a year, see ["Maintenance and care", page 45.](#)



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



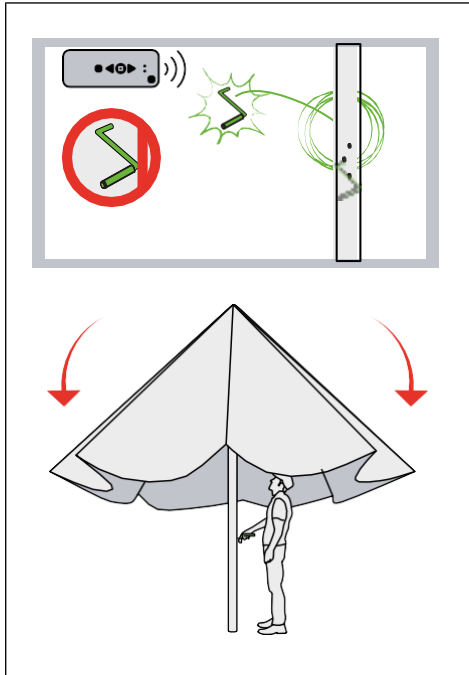
WARNING

Risk of injury to uninvolved persons from flying cranks

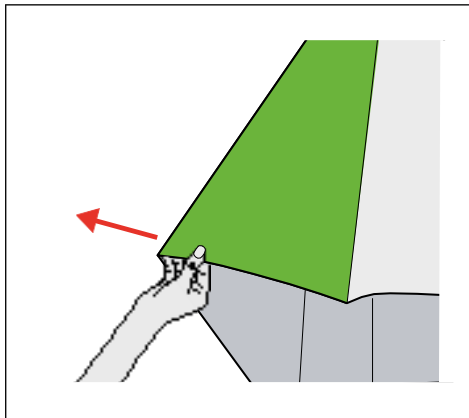
If the sunshade is opened or closed using the remote control while the crank is inserted, it can be ejected.

- When using the remote control, ensure that the crank handle is NOT plugged in.

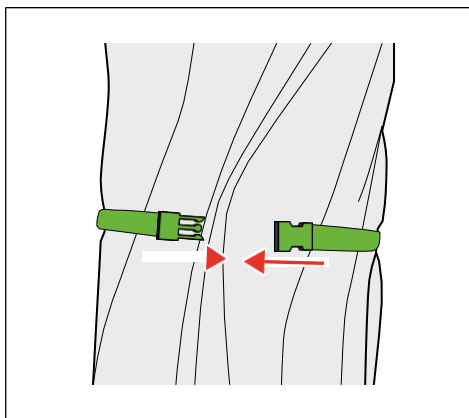
Operation



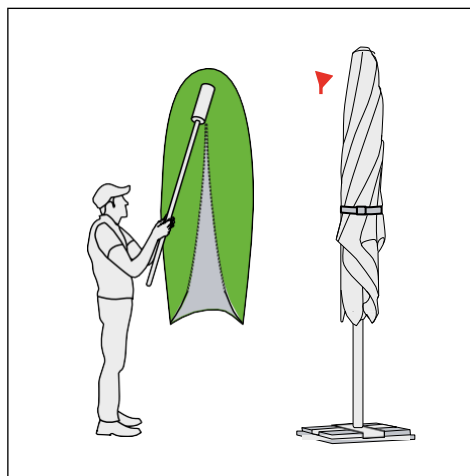
- 6 Turn the crank anti-clockwise. OR
Use the remote control until the sunshade is almost closed.



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



- 8 Secure the closed sunshade roof with the strap.



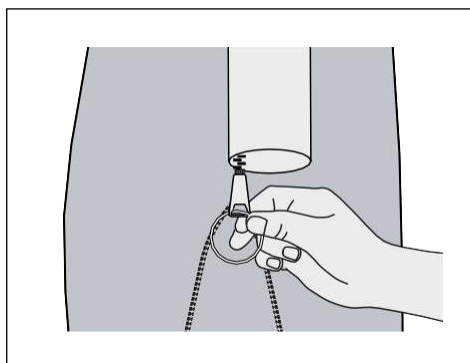
- 9 Attach the protective case, see chapter [“Using the telescopic push rod \(optional\)”](#), page 34.



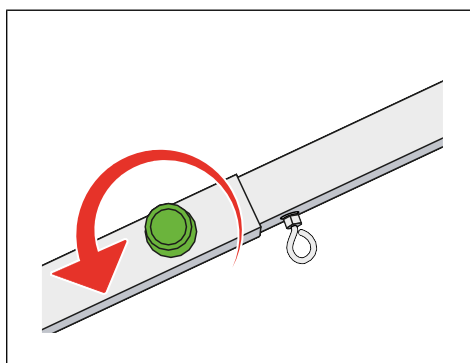
INFO

The fabric must be dry before applying the protective case.

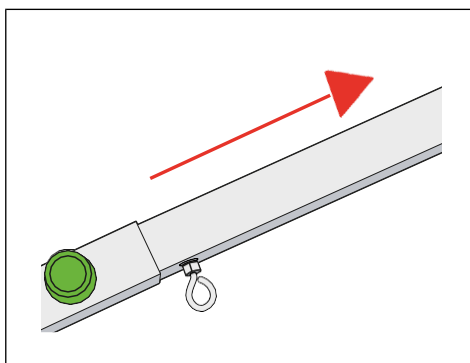
6.3 Using the telescopic push rod (optional)



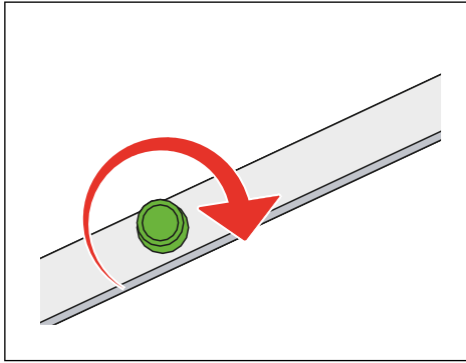
- 1 Attach the key ring to the zip of the protective case.



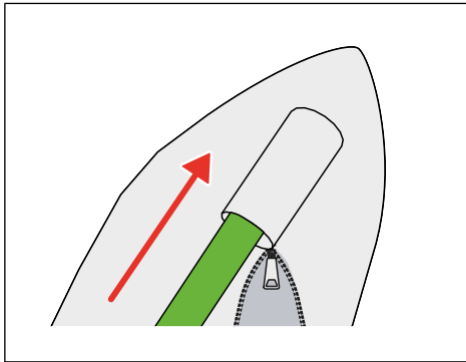
- 2 Open the knurled screw on the telescopic push rod.



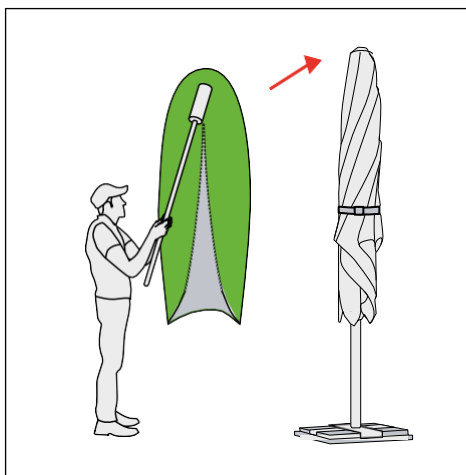
- 3 Pull the telescopic push rod to the required length



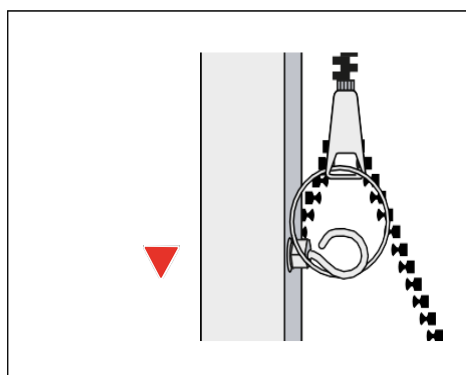
4 Tighten the knurled screw on the telescopic push rod.



5 Open the zip and insert the rod into the tab provided



6 Remove the protective case with the telescopic push rod.



7 Attach the eyebolt of the telescopic push rod to the key ring on the zip of the protective case

Disassembly

7 Disassembly

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

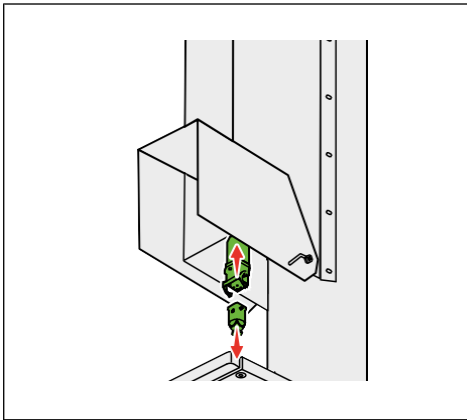


CAUTION

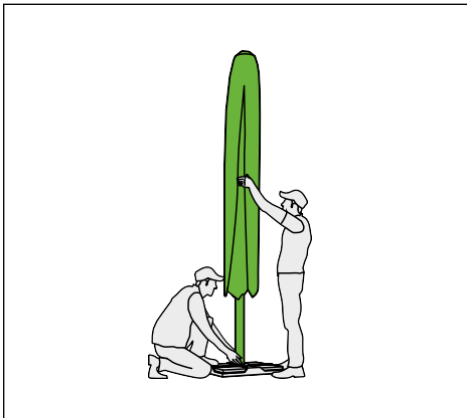
Risk of injury due to tipping

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

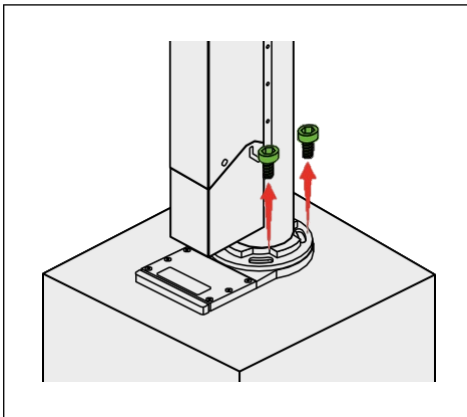
- Two people are always required for disassembly.
- The base must be designed with sufficient ballast to prevent the closed sunshade from tipping over in strong winds.



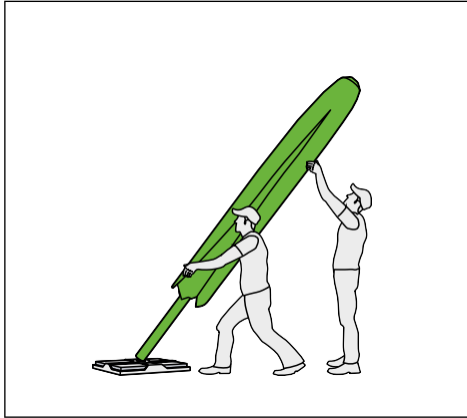
- 1 Disconnect the plug connector.
- 2 Dismantle and pack all add-on parts (optional) such as radiant heater, rain gutter, side tarpaulin, etc.
- 3 Close the sunshade properly, see chapter ["Closing the sunshade roof", page 38.](#)
- 4 Remove the cover cap and, if necessary, the ball or solar element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



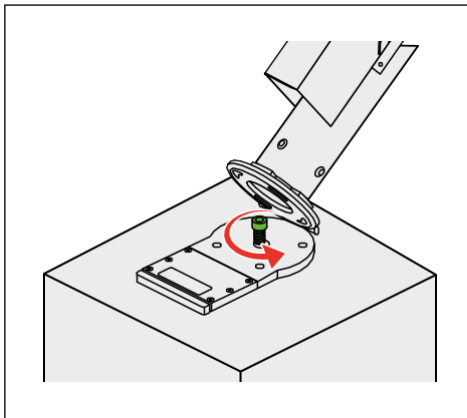
- 6 At least one person secures the sunshade by holding on to it.



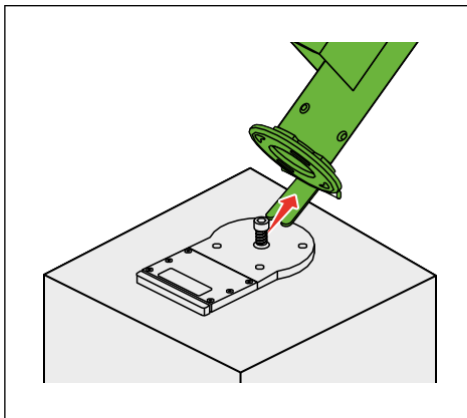
- 7 Loosen the fixing screws and washers on the base and store in a container.
Remove the base sleeve cover if necessary.



8 Tilt the sunshade with at least 2 people.



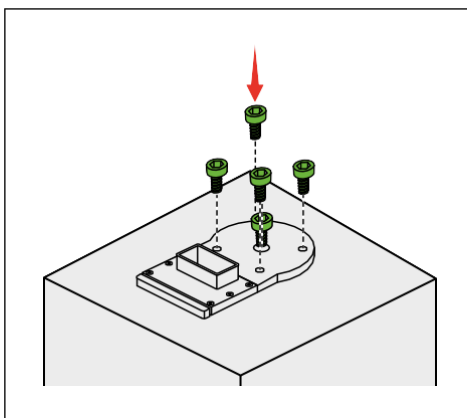
9 Loosen the screw in the centre of the base sleeve.



10 Pull the fork out of the screw.

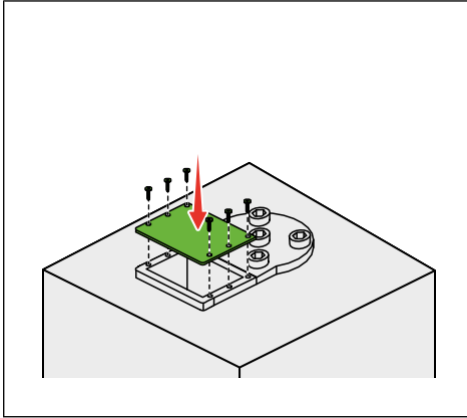
11 Store the pole in a safe, protected place.

12 Remove professionally if necessary.



13 If the sunshade is not used for a longer period of time, screw the 4 screws and the screw in the centre of the base sleeve back in to avoid dirt deposits in the holes.

Disassembly



14 If the sunshade is not used for a longer period of time, close the floor connection tank with the cover (without cable passage) to prevent dirt deposits.

8 Maintenance and care

Radiant heater



NOTE

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

Emergency switch-off

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

Check emergency switch-off

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

Sunshade fabric



NOTE

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

The acrylic fabric of the sunshade roof is impregnated and requires special cleaning and cleaning agents.

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

Cleaning the sunshade fabric

- If possible, remove fallen leaves (foliage) immediately (starting point for microbial infestation).
- Dry-brush out the dirt 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, leave to dry and treat with impregnating agent.

Pole

Cleaning and maintaining the pole

- Wash the surfaces with a gentle cleaning agent.
- 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.

Anchoring

Check screws and foundation

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

Rain gutters

Cleaning and maintaining rain gutters

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

Maintenance and care

Check additional equipment

Check and maintain additional equipment

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

Storage

9 Storage



NOTE

Material damage due to abrasion of the sunshade fabric

Permanent flapping in the wind can damage the sunshade fabric by rubbing against the struts. No claims for damages can be asserted for this.

- Always secure the closed sunshade roof with the strap.



NOTE

Material damage due to mould

If the protective case is pulled over the damp fabric, mould will form.

- Only cover the protective case when the fabric is completely dry.

The sunshade can be stored outdoors and in a protected, dry room. For both options:

- Secure the sunshade roof with straps.
- Allow the fabric as well as any side tarpaulins and rain gutters to dry completely before storing.
- Put the protective case on.
- Store the side tarpaulins in a suitable container, e.g. in commercially available and sealable KG tubes.

Outdoor storage



CAUTION

Risk of injury due to tipping

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

- If a mobile stand is used, it must be designed with sufficient ballast to prevent the closed sunshade from tipping over.

Storage in a dry room

The following applies to storage in a dry room:

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

10 Troubleshooting


If the sunshade malfunctions and cannot be rectified 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 these instructions.



WARNING

If the radiant heater malfunctions, follow the instructions for the radiant heater.

The following malfunctions can occur when using the sunshade:

Problem	Cause	Rectification
230 V motor stops when travelling and has to be restarted again and again/switches off again and again.	Motor has lost end position and is searching for upper and lower end point with low torque.	Reset limit switch with standard setting cable, e.g. using button  Then move the motor to the upper and lower end positions. The motor switches off to torque.
The crank cannot be turned, blocked	Gearbox defective	Gearbox replacement
Motor does not start (230 V).	<ul style="list-style-type: none"> Hand-held transmitter battery is too weak Plug connection not completely plugged in. Locking device has triggered 	<ul style="list-style-type: none"> Change the remote control battery. Check plug connectors. Wait 20 min. Checking the locking device.
The sunshade roof can no longer be opened or closed. Motor does not start (230 V).	Motor thermal protection active.	Allow the motor to 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 base of the pole. Then reconnect the motor. Hand-held transmitter can now be programmed again
LED lighting cannot be switched on.	Circuit breaker of the LED lighting has tripped.	<ul style="list-style-type: none"> Before switching on the LED lighting, open the sunshade completely.
Sunshade makes creaking noises	Screws on the base of the sunshade have come loose	Tighten the fastening screws on the base <ul style="list-style-type: none"> Visual inspection of the screws on the sunshade
Crank turns without resistance	Power transmission in the drive train interrupted	Check the drive train. Replace the connecting screws.
Heaters do not work	Safety switch triggered Supply line de-energised Switch on housing still "off"	Sunshade not fully open Safety device triggered <ul style="list-style-type: none"> Housing switch to "on"
Fabric tension on individual struts too low	Fabric has elongated	Loosen the screw at the strut tip, pull out the profile and reattach.



NOTE

If a fault is not included in the list or if you are unsure, contact a specialist dealer

Warranty conditions

11 Warranty conditions

The following warranty conditions apply:



www.caravita.de/garantie

12 Notes

Follow the general instructions:



www.caravita.de/hinweise



Druckfehler, Änderungen, Abweichungen vorbehalten

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CARAVITA GmbH - Hans-Wilhelm-Renkhoff-Straße 2 - 97828 Marktheidenfeld – Germany
www.caravita.de