

# Installation instructions AZ120

(Anchor foot with placement hinge, to be embedded: type Albatros)

The following instructions include all information necessary for the installation and operation of this anchor tube. To avoid any misunderstanding we advise you to read these instructions carefully and then keep them for later reference.



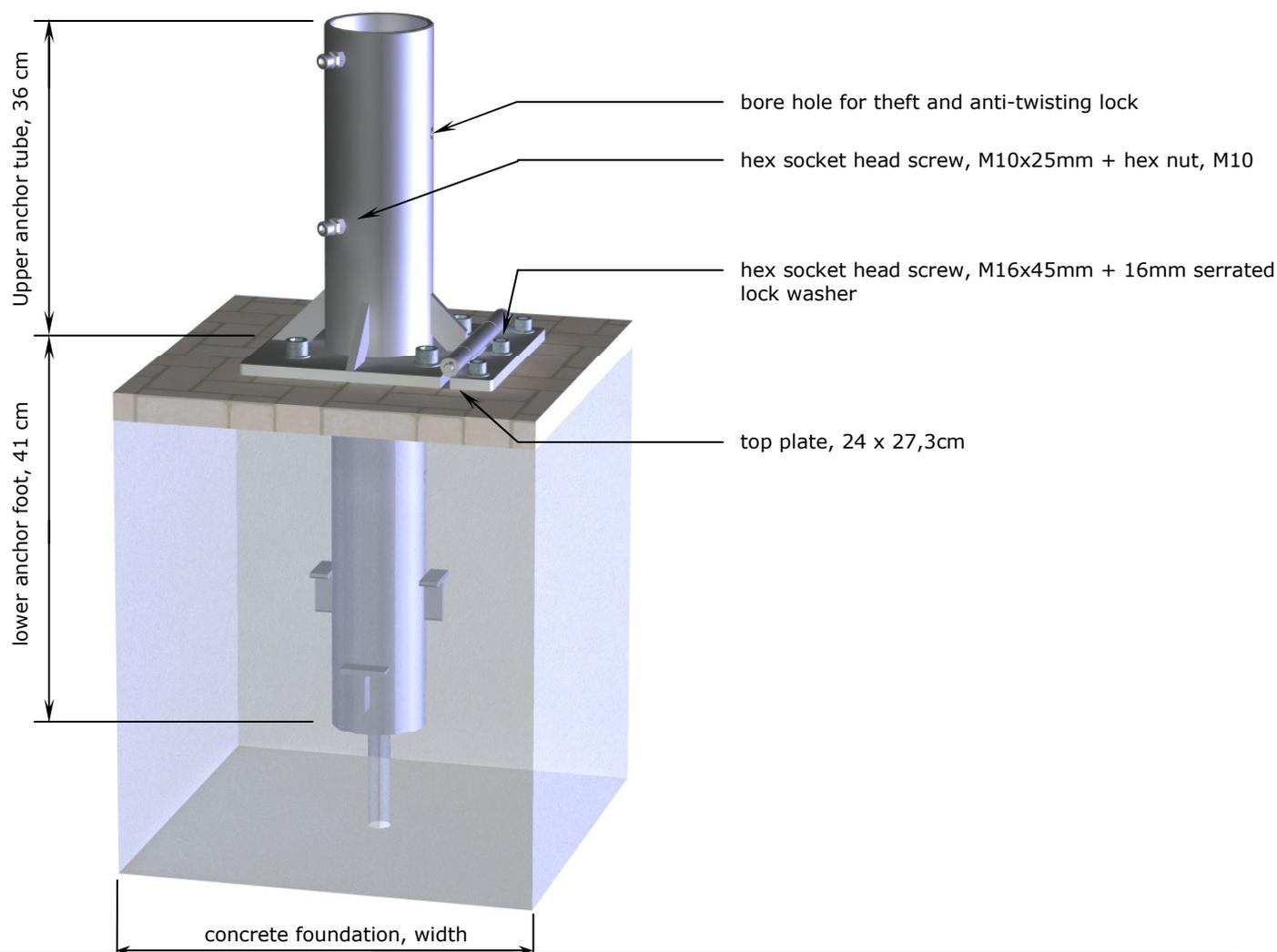
Caution

**Non- observation of operating instructions can result in personal injuries or damage to property!**

Please note that if these instructions are not observed, the manufacturer cannot assume any liability or guarantee.

- Always follow the safety regulations.
- Should you not understand any part of these operating instructions, please contact your MAY dealer.

## Diagram showing installation materials and tools



## Determining the location for the foundation

1. Allow sufficient space between sunshades or between the wall of the building and the sunshade.



Caution

### Sunshades that are located too close together wear sooner!

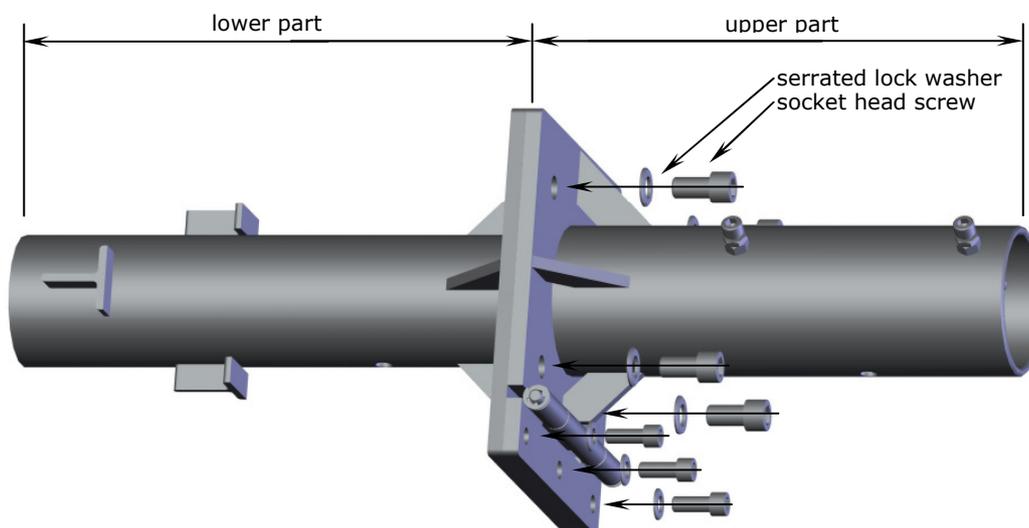
Sunshades may sway slightly. If there is not enough space between them, they may touch and abrade or scrape the canopy fabric at the spoke ends.

- Make sure that there is a clearance of approx. 30cm between the sunshades (or between sunshade and the wall of the building).

2. We would like to stress that uneven patios are no problem for us. We are able to compensate any unevenness of the ground by adjusting the height of each individual sunshade. Extra length upper anchor tubes are available at 10cm gradation and can be adjusted and accommodated on location.

## Embedding the anchor tube in concrete

1. Screw the upper anchor foot onto the lower tube (cf. illus.), slipping the 16mm serrated lock washer on the M16x45mm socket head screw and the 10mm washer on the M10x30 screw. Tighten, using the enclosed 14mm and 8mm hex keys.



2. Lay the concrete foundation. For width and length of the foundation consult the chart below. The depth of the foundation will depend on how sensitive the ground is to frost. We recommend a depth of at least 60cm.

Size of sunshade:	Foundation: width / length
4x6m, 5x5.85m, 5x7.5m, 6x6m	70cm / 70cm
Ø 8m, 6x7m, 7x7m	80cm / 80cm
Ø 9m	90cm / 90cm
Ø 10m	100cm/ 100cm



**Danger**

**A falling sunshade can cause serious or even fatal injury!**

If the foundation for the lower anchor tube is not dimensioned to match the size of the umbrella, the sunshade may fall and cause injuries.

- Keep to the dimensions specified in the above chart.
- In case of poor-quality ground, opt for a larger-size foundation.



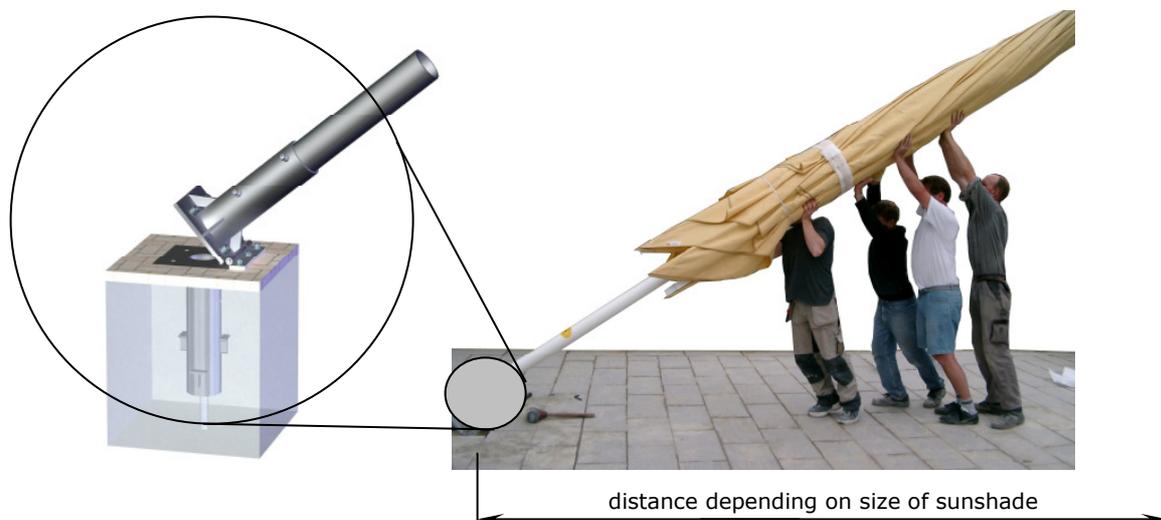
**Caution**

**The concrete foundation can be damaged by frost.**

Temperatures below freezing point may have a negative impact on the concrete foundation.

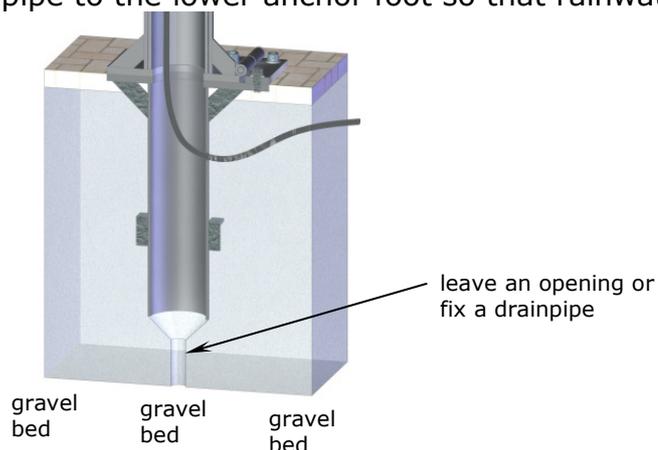
- Inquire up to what depth the ground of the designated sunshade location is frost-proof and choose the size of the concrete foundation accordingly.

3. When choosing the location for the anchor tube, take into consideration that there must be sufficient space to erect and dismantle your sunshade.



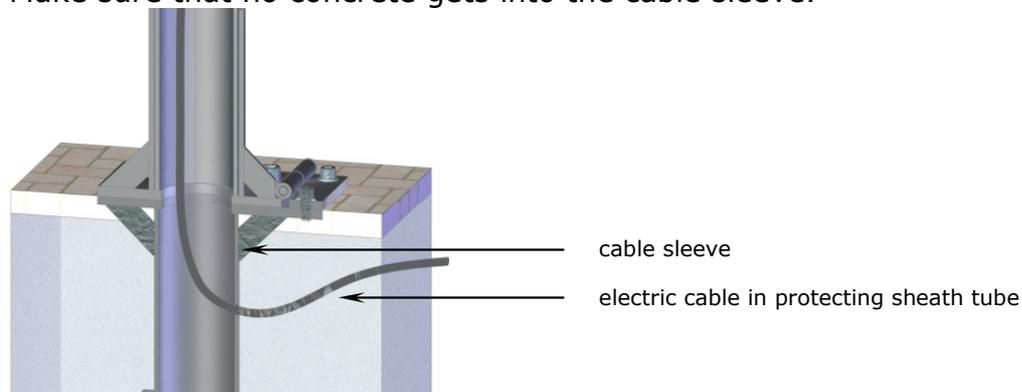
4. *(only for sunshades operated with electric power)*

Fill the bottom of the foundation with an underlayer of coarse gravel or pebbles and fix a drainpipe to the lower anchor foot so that rainwater can drain off.

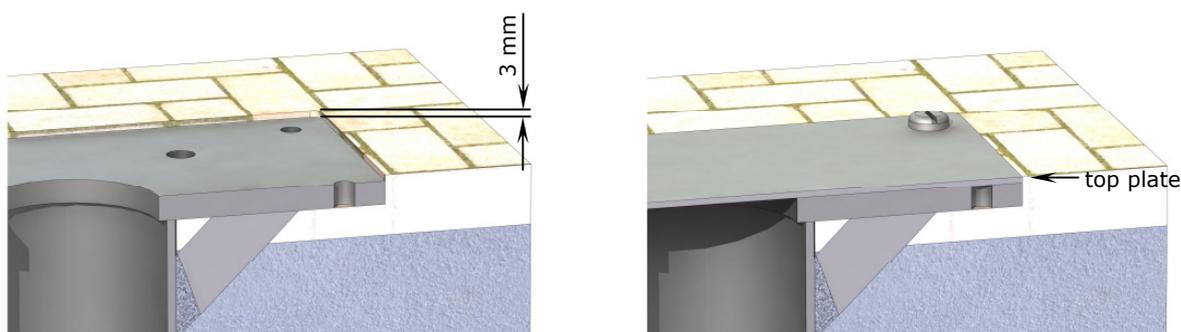


5. (only for sunshades operated with electric power)

Lay the underground power cable. Protect the electric cable with a sheath tube to avoid damage. Make sure that no concrete gets into the cable sleeve.



6. To assure that the top plate is flush with the ground after the upper anchor tube has been removed, (cf. illus. b) insert the lower anchor tube 3mm deeper into the concrete than the patio surface (cf. illus. a: -to give a clearer picture, the upper anchor tube has been omitted). In this way tripping hazard is eliminated.



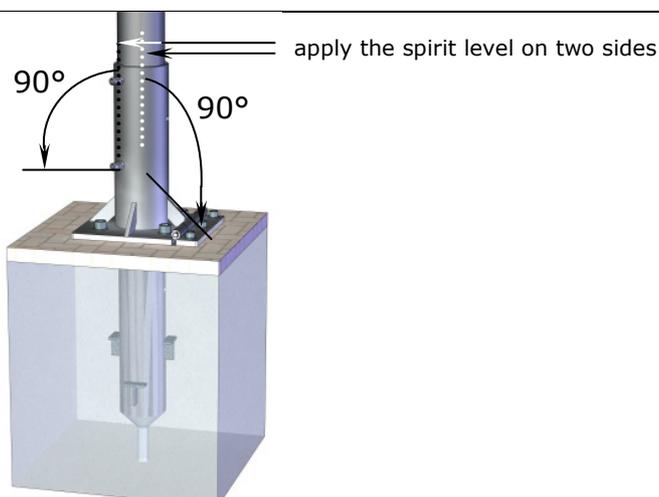
7. Check that the upper anchor tube is straight, using a spirit level. (cf. illus.)



Caution

**If the sunshade is to be in a vertical position, the anchor tube must be embedded in the concrete absolutely vertically.**

Align the anchor tube and hold it in position until the concrete has cured completely.



## Power supply

1. The connection of ground cable and power supply for the umbrella must be absolutely waterproof. The ground cable (for heavy current: min. 5-pole, min. 4mm<sup>2</sup>, cable cross section) must be laid to suit the electric load and the length of the lead wire by a qualified electrician.



**Danger**

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**Electric installation work should be carried out solely by a certified electrician. Disregarding this warning may result in serious personal injuries.**

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**Danger**

**To avoid personal injury in case of faults**

Water in the plug connector can lead to a short circuit. Protect the connector against any water.

- Secure umbrella with a 30mA RCBO protective switch.
  - According to law, the functioning of protective switches must be checked at least every six months.
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**Caution**

**Danger of short circuit**

Water in the plug connector can lead to a short circuit. Protect the connector against any water.

- Make sure that the plug connector remains above the ground when the sunshade is erected, or seal the connector with silicon (or the like) to make it 100% waterproof.
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2. Wire colours:

green-yellow	= protection
blue	= neutral
brown	= light (if used)
black	= heating (if used)
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## Storage/Dismounting

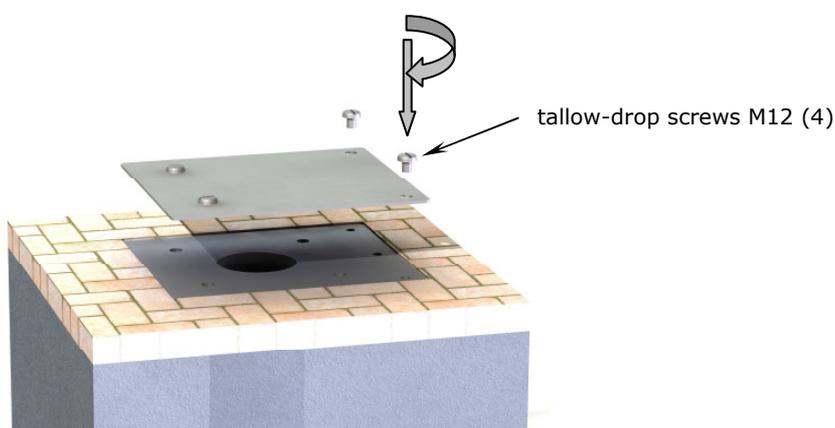
1. Fold down the upper anchor tube. Disconnect the underground cable from the cable in the sunshade pole. Lift the sunshade out of the anchor foot.
2. Remove the upper anchor tube completely by screwing it off.
3. Screw the top plate onto the lower anchor tube. (cf. illus.)



Caution

### The thread can get damaged!

When the top plate is not on the lower anchor tube, sand may get washed into the flanks of the thread. As sand is harder than steel, the thread may get damaged when the screw is turned.



4. If you have two or more sunshades, it is advisable to mark them and their accessories (e.g. with metal-stamped numerals or using a waterproof marker) as soon as they have been dismantled (e.g. for winter storage).

### Marking saves a lot of time and helps to keep things in order!

Tip

If clearly marked, each sunshade can easily be assigned to its proper location and re-erected parallel to the wall of the house or next to the others.

- For clear and easy later assignment use the same number to mark the centre pole, the upper anchor tube and the lower anchor tube. For example, for sunshade No. 1, all three parts should carry number 1, all three parts of sunshade No. 2 should be marked with a 2, etc.

5. Grease the screws regularly to prevent them from rusting.