

Installation instructions SZ131

Dowel-anchored plate with placement hinge for type SCHATTELLO

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



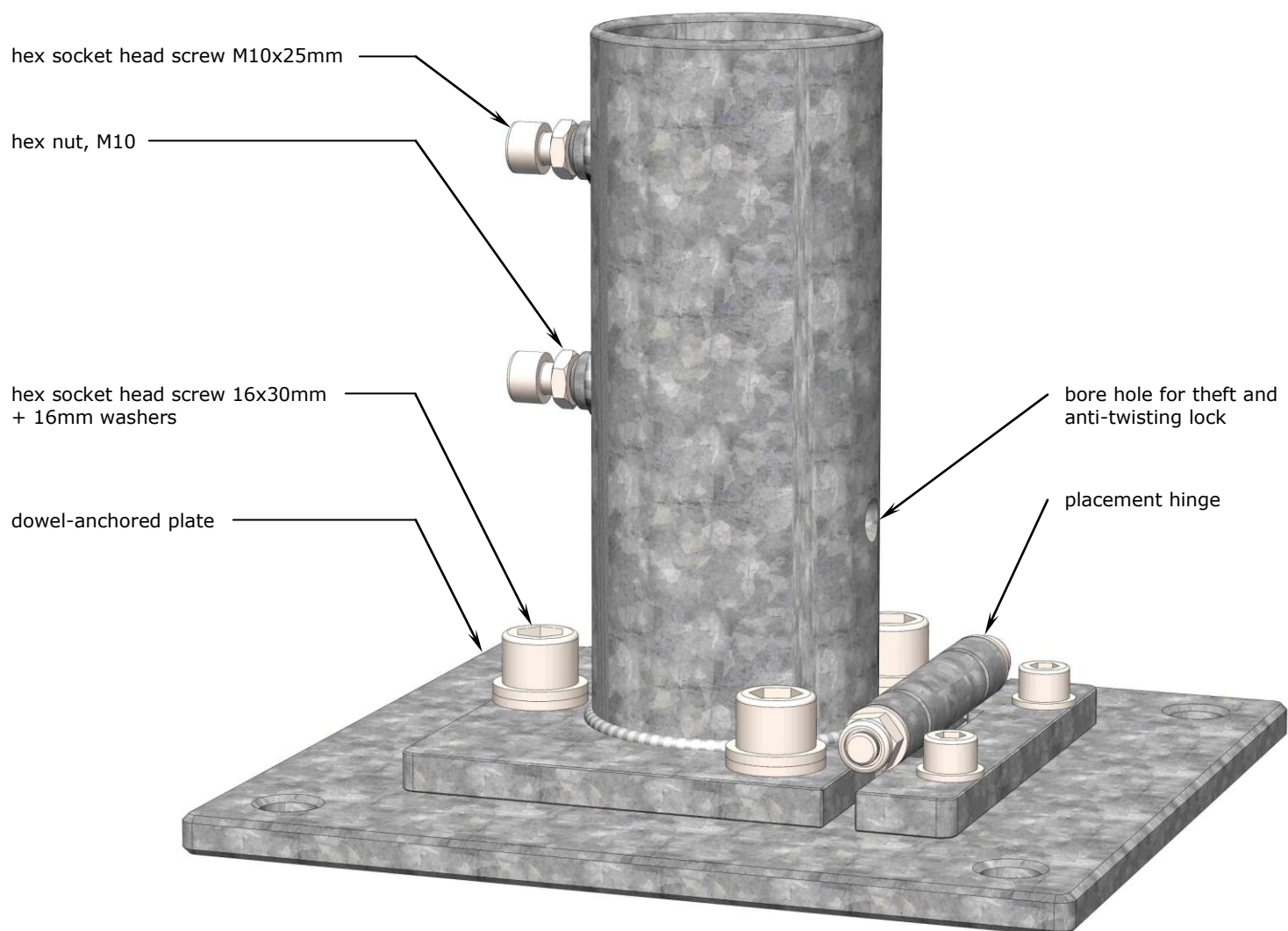
Caution

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.

Installation diagram



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.

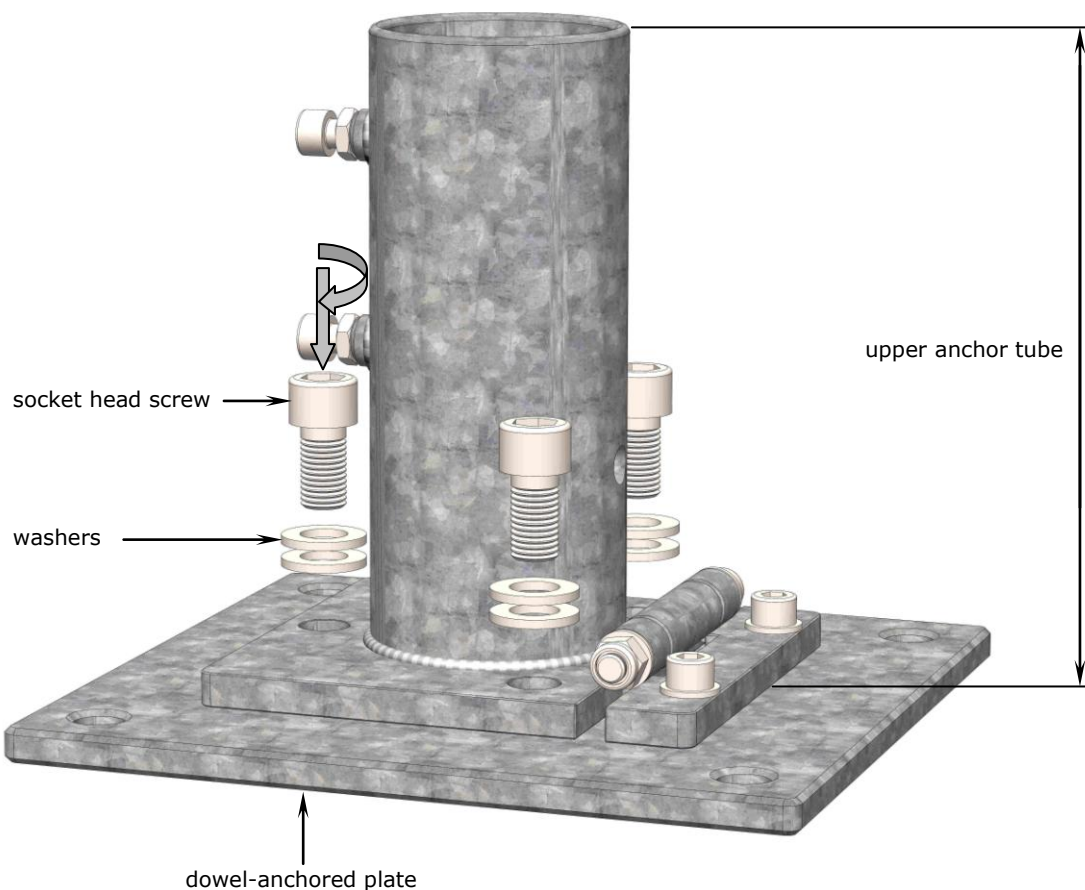
Sunshades may sway slightly. If there is not enough space between them, they may touch and abrade or scrape the canopy fabric at the spoke ends.

- Make sure that there is a clearance of approx. 15 - 20cm 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.

Dowelling the anchor plate

1. Screw the upper anchor tube onto the dowel-anchored plate (cf. illus.). Slip the 16mm washer on the M16x30mm socket head screw and tighten, using the enclosed 14mm hex key.





Caution

Screws that are not tightened correctly will work loose.

If screws are not tightened firmly enough, there will not be sufficient tensile force to trigger self-locking. If the screws are tightened too firmly and over-stressed, the screw connection may slacken.

- Tighten the screw manually using the enclosed hex key and extension. Exert as much force as possible. With the enclosed tools there is virtually no risk of over-stressing.
- The correct torque for a torque wrench is 210 Nm.

2. If there is not already a concrete foundation on location, a new one will have to be laid. Please do not forget to allow for a power cable channel. 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 60 cm.

Size of sunshade:	Foundation: width / length
Ø 4m, Ø 5m,	50cm / 50cm
3x3m, 3.5x3.5m, 4x4m, 4.5x4.5m, 2x4m, 3x4m, 3x4.5m, 3x5m, 3.5x4m, 4x5m, 4x4x4m, 6x6x6xm	50cm / 50cm
Ø 6m, Ø 7m, 4x6m, 5x5m	60cm / 60cm



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 (Soil classification 4 or less), opt for a larger-size foundation.



Caution

The concrete foundation can be damaged by frost.

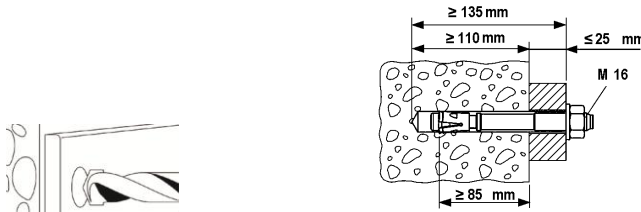
Temperatures below freezing point may have a negative impact on the concrete foundation.

- 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. Screw the anchor plate onto the foundation. If you use anchor bolts provided by other manufacturers, please observe their instructions. Anchor bolts supplied by MAY should be mounted as follows:

Order No. 200900, threaded bolt with nut, stainless steel A4:

- Using a 16 mm hammer drill, drill a min.110 mm-deep hole into the concrete.



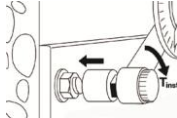
- Clean the bore hole with compressed air.



- Drive the anchor bolt into the hole. Before doing so, be sure to position the hex nut correctly. (The drive-in pin of the threaded bolt should jut out of the hex nut approx. 2 - 3 mm.)



- Use a torque wrench to tighten the nut with 110 nm.



A falling sunshade can cause serious or even fatal injury.

If the dimensions of the anchor bolts do not match the size of the umbrella, the sunshade may fall and cause injuries.

- Always determine the appropriate bolt size with the help of a specialist.
- Anchor bolts of May company are approved for cracked and non-cracked concrete C20/25 to C50/60. Also suitable for concrete C12/15 and natural stone with dense structure.

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



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



Caution

Screws that are not tightened correctly will work loose.

If screws are not tightened firmly enough, there will not be sufficient tensile force to trigger self-locking. If the screws are tightened too firmly and over-stressed, the screw connection may slacken.

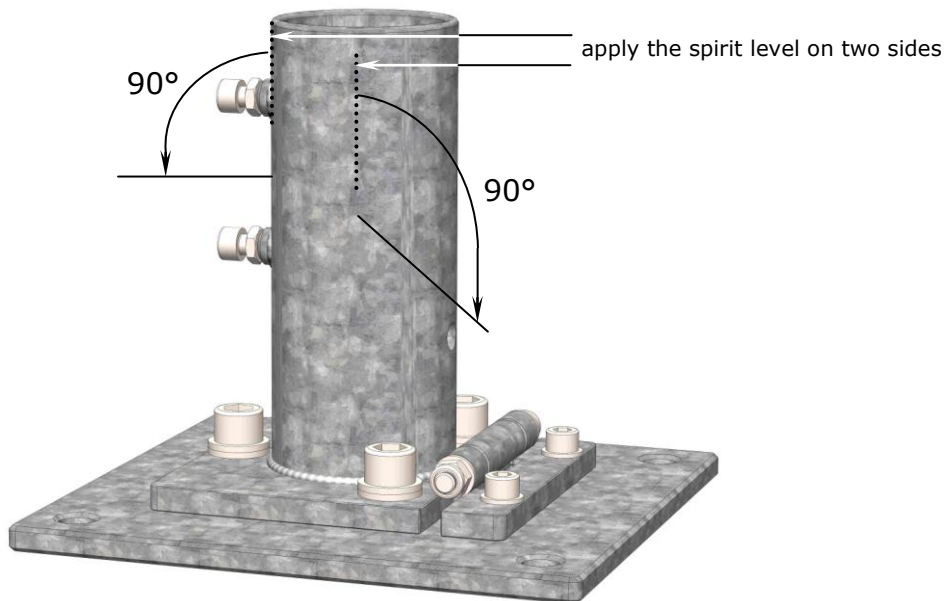
- Tighten the screw manually using the enclosed hex key and extension. Exert as much force as possible. With the enclosed tools there is virtually no risk of over-stressing.
 - The correct torque for a torque wrench is 210 Nm.
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Caution

If the sunshade is to be in a vertical position, the anchor plate must be dowel-fastened absolutely vertically.

It may be necessary to align the anchor tube with the help of washers.



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. 4mm², cable cross section) must be laid to suit the electric load and the length of the lead wire by a qualified electrician.



Danger

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



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, (number dependent on load installed):

green-yellow	= protection
blue	= neutral
brown	= light (if used)
black	= heating (if used)
black	= heating (if used)

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.



Gefahr

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

- First unplug the sunshade, then disconnect the ground cable from the umbrella power cable.
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2. Remove the upper anchor tube completely by screwing it off.

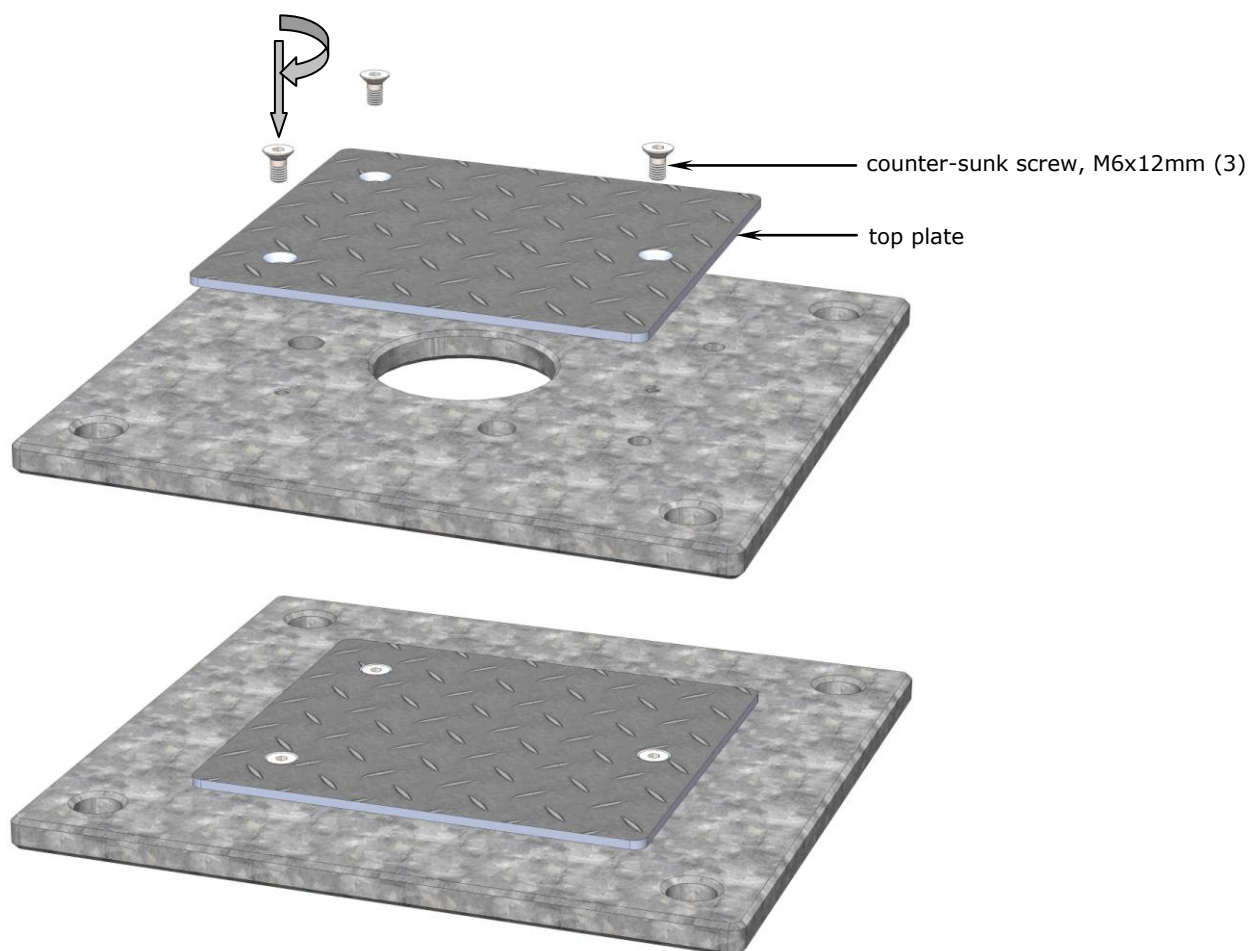
3. Screw the top plate onto the lower anchor tube. (cf. illus.)



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