

Installation instructions AZ128 / AZ028

Customized dowel-anchored plate with placement hinge and upper anchor foot AZ120 for type ALBATROS. This option is not suited for use on sealed rooftops, balconies and terraces. Please opt for installation base AZ186 or AZ194 for these surfaces.

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



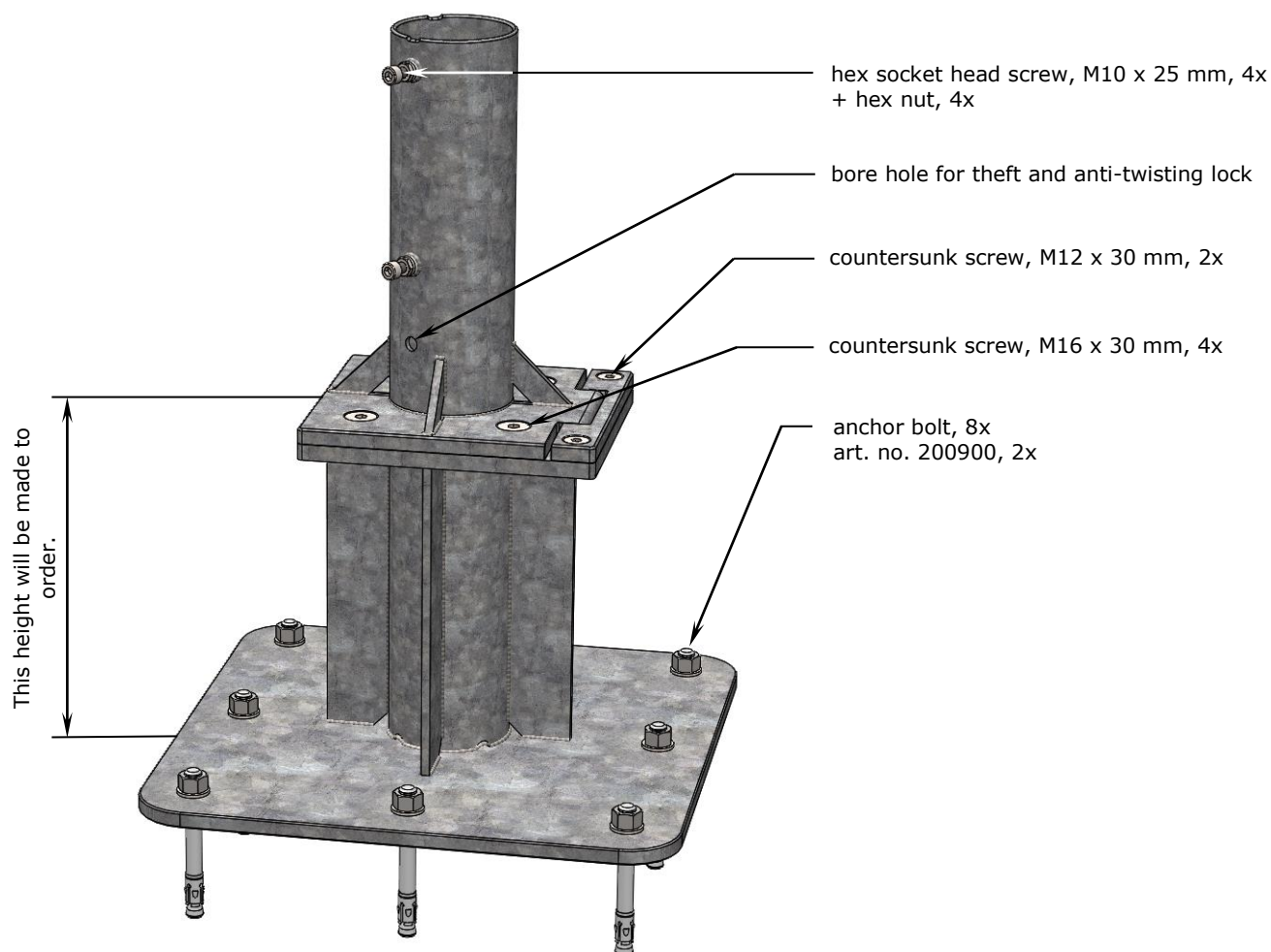
Caution

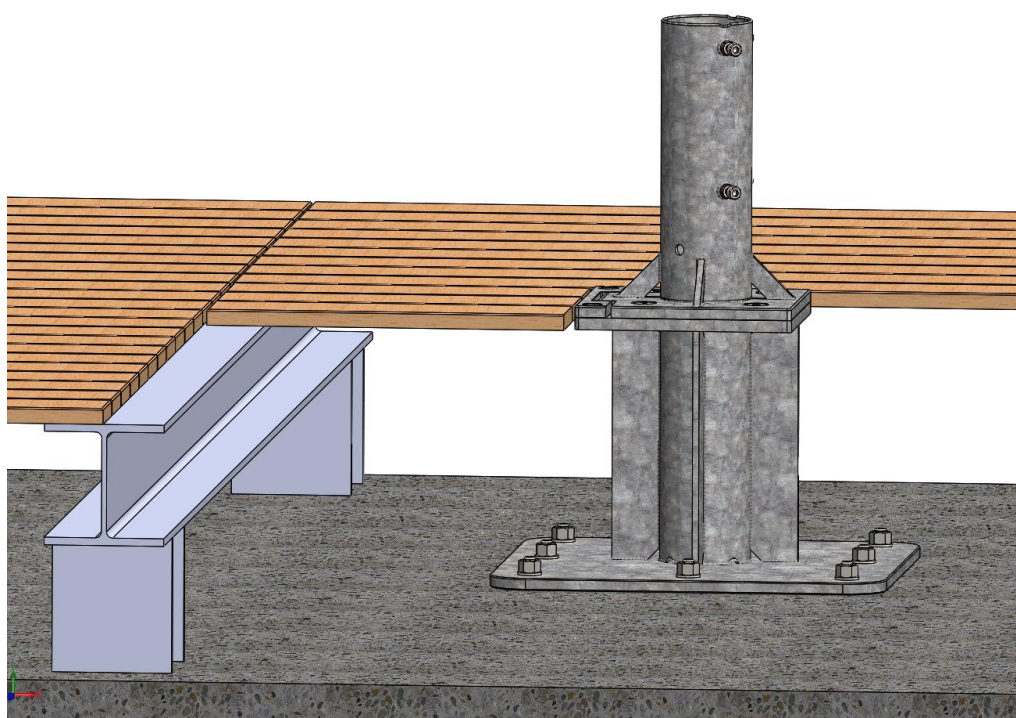
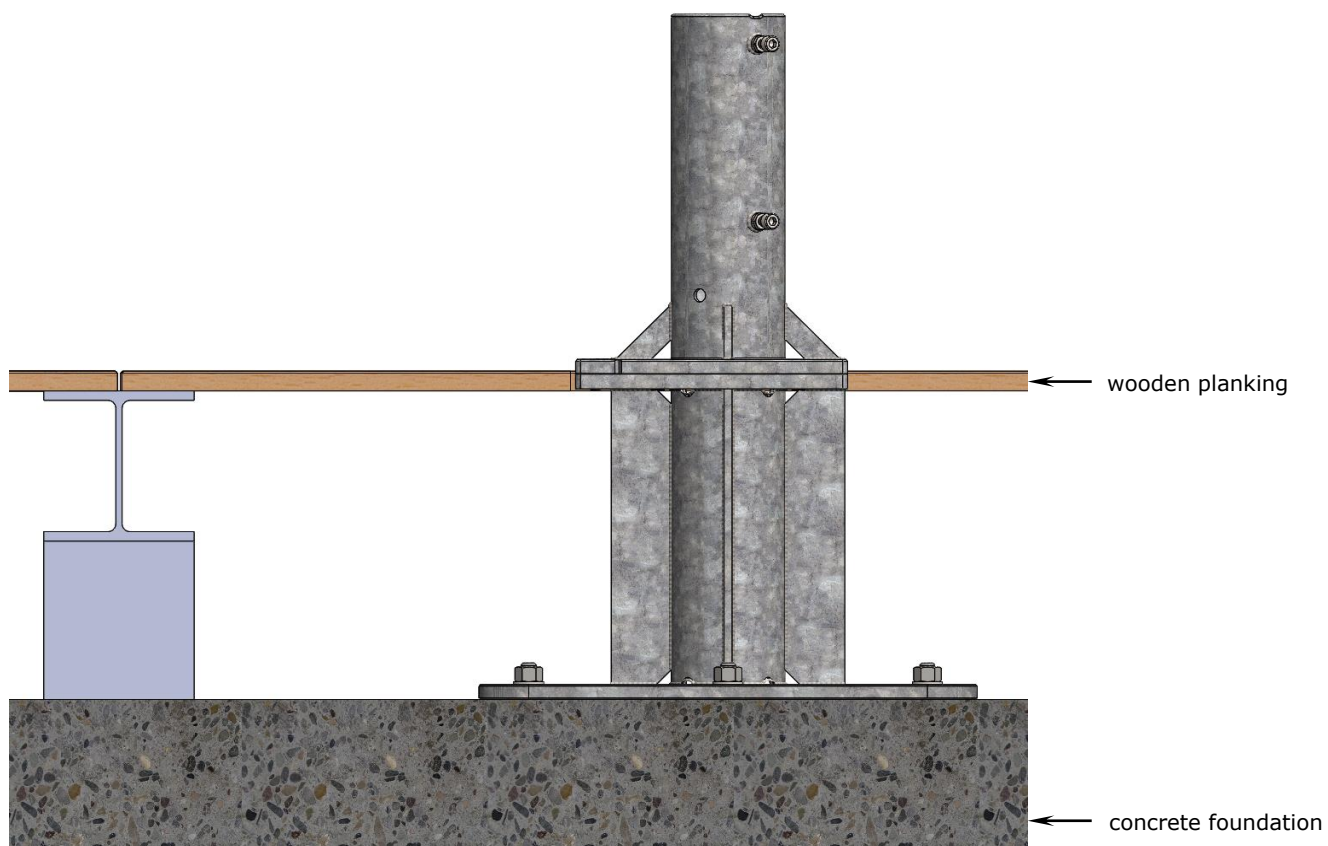
Non- observation of operating instructions can result in personal injuries or damage to property.

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





Functioning of the placement hinge

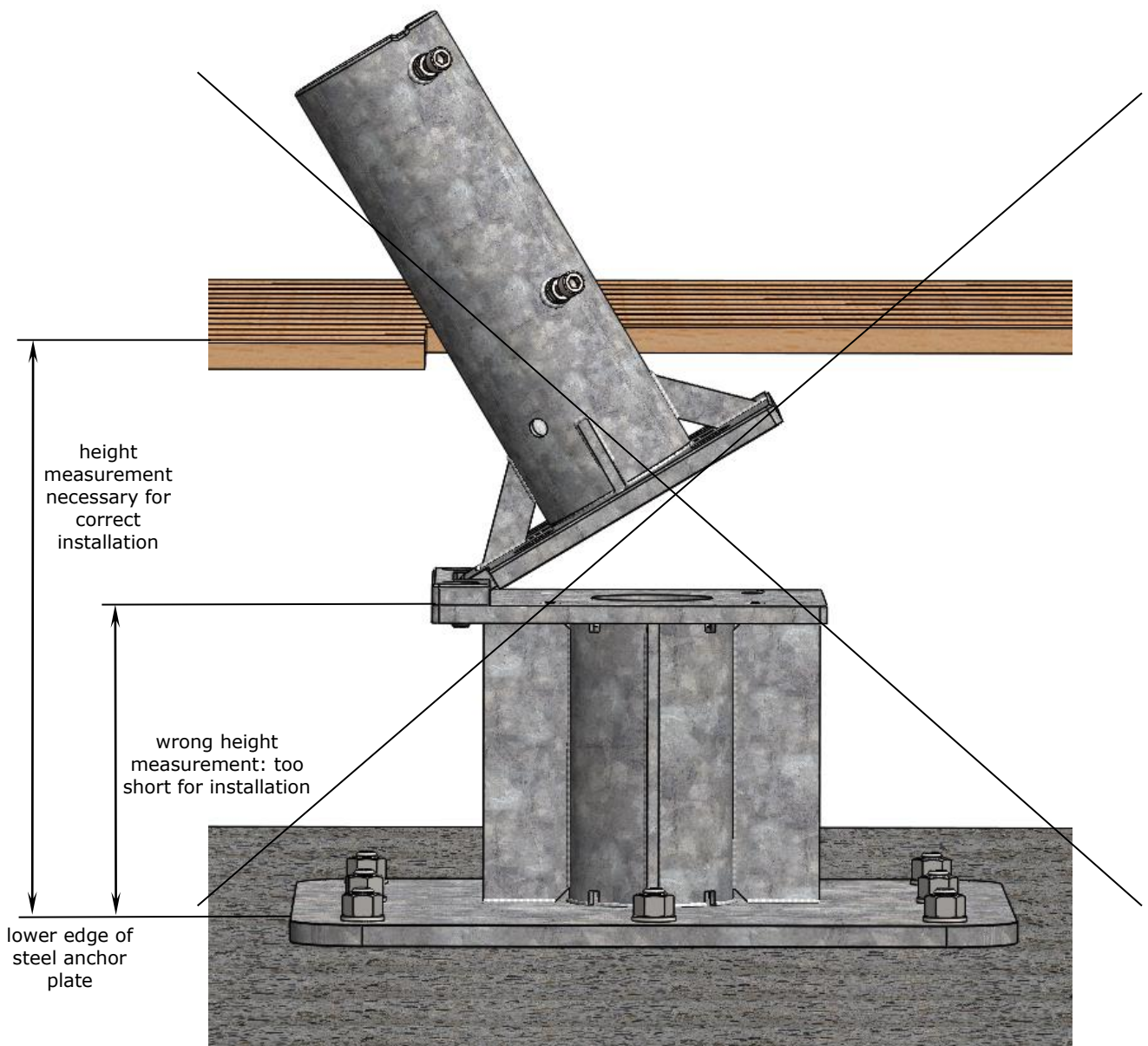


Caution

The placement hinge will not function if the total height is not correctly dimensioned.

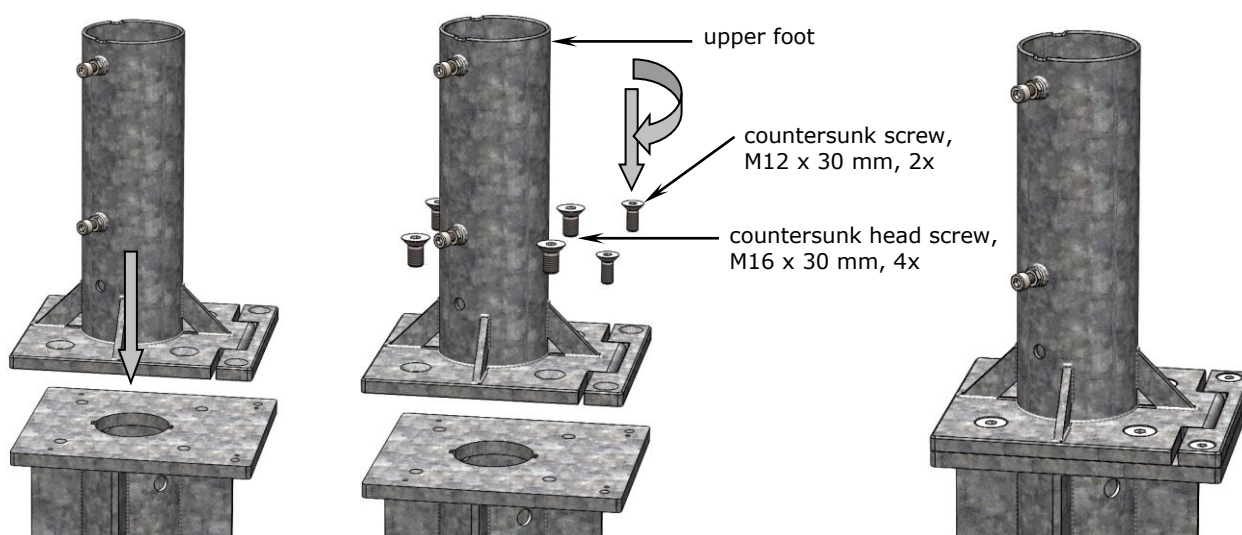
If item AZ128 / AZ028 has, by mistake, been ordered and installed with the wrong height measurements, do at least make sure that the bottom component is not set too far down in the ground. If there is a difference of more than 50 mm between the top of the lower anchor foot and the floor surface, the placement hinge cannot be tilted and the parasol cannot be erected. Moreover, the electrician will not be able to run the power cables.

- Be sure to measure and specify the correct total height for installation.



Determining the position of your AZ128 / AZ028

1. Screw the upper foot onto the lower part (cf. illustration). Use the M16 countersunk screws and the M12 mm countersunk screws and tighten them. Tighten all screws using the 10 mm and 8 mm hex keys provided.



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 M16 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 for M16 is 150 Nm, for M12 it is 70 Nm.



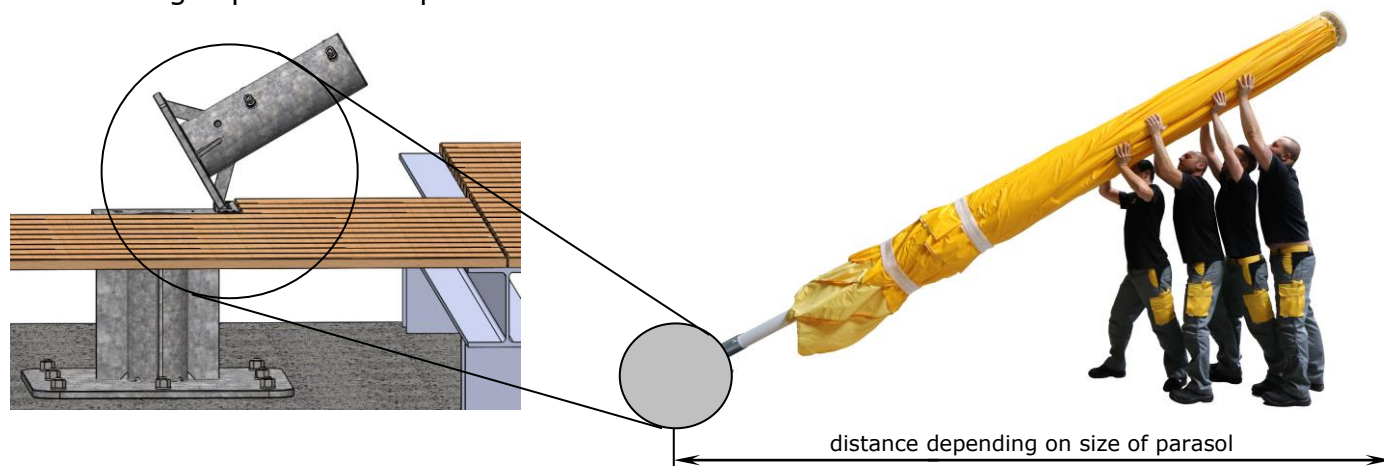
Caution

The thread can get damaged.

As sand is harder than steel, the thread may get damaged if a sand-covered screw is turned.

- Clean and grease screw and thread hole.

2. Choose the location for your AZ128 / AZ028. Put the placement hinge in a position that will allow enough space for the parasol to be erected and dismantled.



3. Allow sufficient space between parasols or between the wall of the house and the parasol.



Caution

Parasols that are located too close together wear sooner.

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

- Make sure that there is a clearance of approx. 30 cm between the parasols (or between parasol and the wall of the house).
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4. Note that uneven patios are no problem. We are able to compensate any unevenness of the ground by adjusting the height of each individual parasol. Extra-length upper foots are available at 10 cm gradation. These can be adjusted in height on location with the help of inside spacers. Instructions: may.ag/extralength.pdf

5. Set the AZ128 / AZ028 in vertical position.



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 M16 screws 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 spanner for M16 is 150 Nm, for M12 screw 70 Nm.
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Caution

The thread can get damaged.

As sand is harder than steel, the thread may get damaged if a sand-covered screw is turned.

- Clean and grease screw and thread hole.

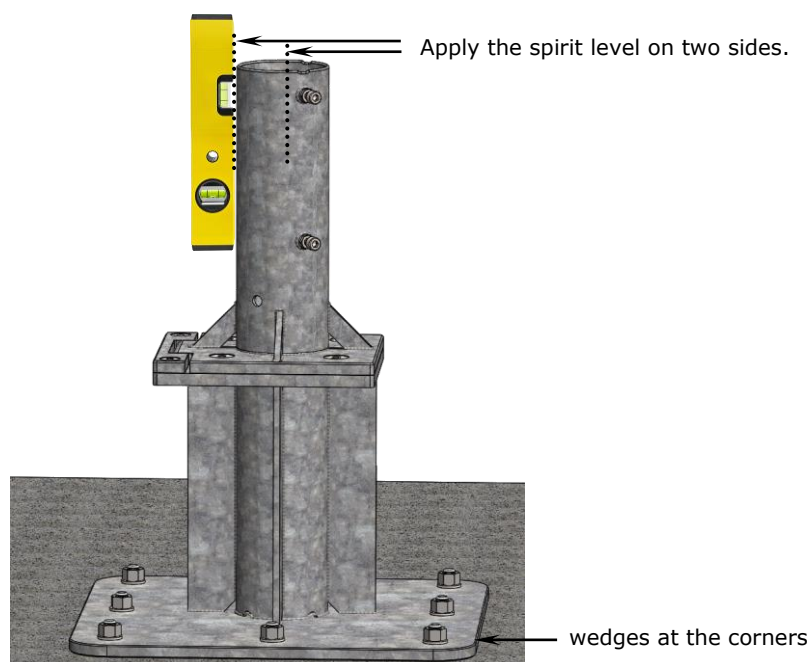


Attention

If the parasol is to be in a vertical position, the anchor plate must be embedded in the concrete absolutely horizontally.

If the upper component of AZ128 / AZ028 is not in an absolutely vertical position the parasol will stand slanted. This would have a negative impact on the overall optical appearance of the parasol. Especially when there are several parasols in a row, even an inexperienced passer-by would notice that they are not straight.

- Use a spirit level to align the AZ128 / AZ028 (cf. illustration).
 - Use wedges or, if necessary, washers under the corners.
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6. When setting the AZ128 / AZ028, make sure that the base plate of the bottom component is flush with the terrace floor surface.

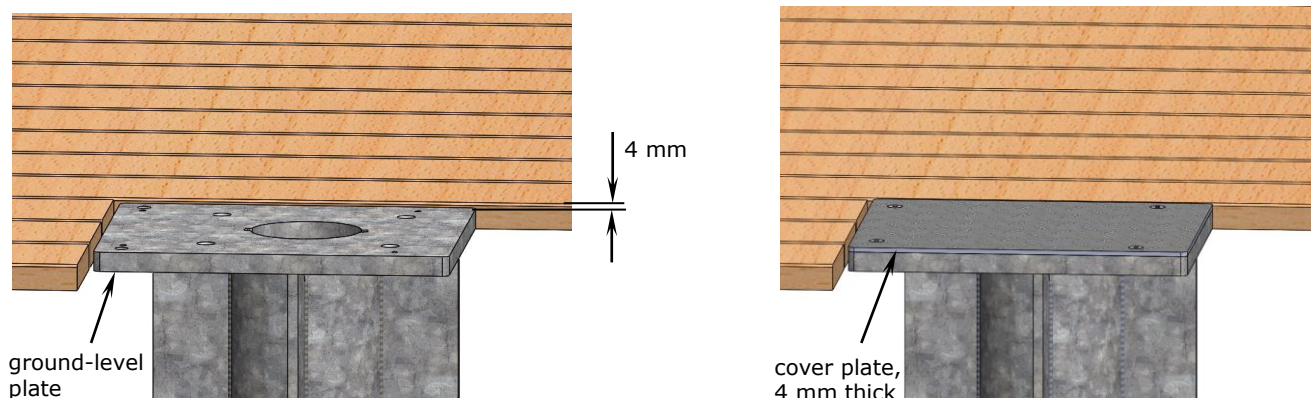


Attention

Avoid tripping hazard.

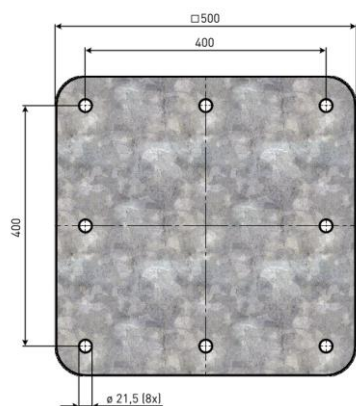
To ensure that the cover plate (needed as a protective cover in winter when the upper anchor foot has been removed) is flush, the bottom component of AZ128 / AZ028 must be set 4 mm below the terrace surface (cf. illustration). This difference of 4 mm corresponds to the space needed for the 4 mm-thick checker plate for winter protection.

- When ordering, make sure that you state the correct height measurements required for the bottom component so that the distance between the top of the reinforced concrete base and the top edge of the terrace surface can be bridged properly. Please use our special MAY order form for custom-made production.
- In case of doubt, state a measurement that is slightly too short. The missing height can then be jacked up. Measurements that are too long cannot be adjusted.
- To reach the correct height of the lower component, push wedges under all four corners. The wedges should be as broad as possible so that the load is well distributed and will not damage the vapour barrier membrane. Ideally, the wedges should only be used to jack up the plate. The hollow space beneath the base plate should then be stuffed with epoxy resin sealing mortar until the plate is completely stable and safe.



Dowelling the anchor plate

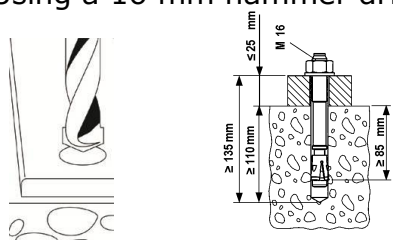
1. Use a hammer drill to drive the 8 bore holes for dowels into the reinforced concrete surface. The drill pattern for the anchor plate is as shown below:



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

Art. no. 200900, 2 packages necessary, threaded bolt with nut, stainless steel A4:

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



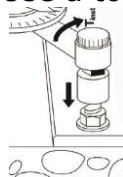
- b. Clean the bore hole with compressed air.



- c. 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.)



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



Danger

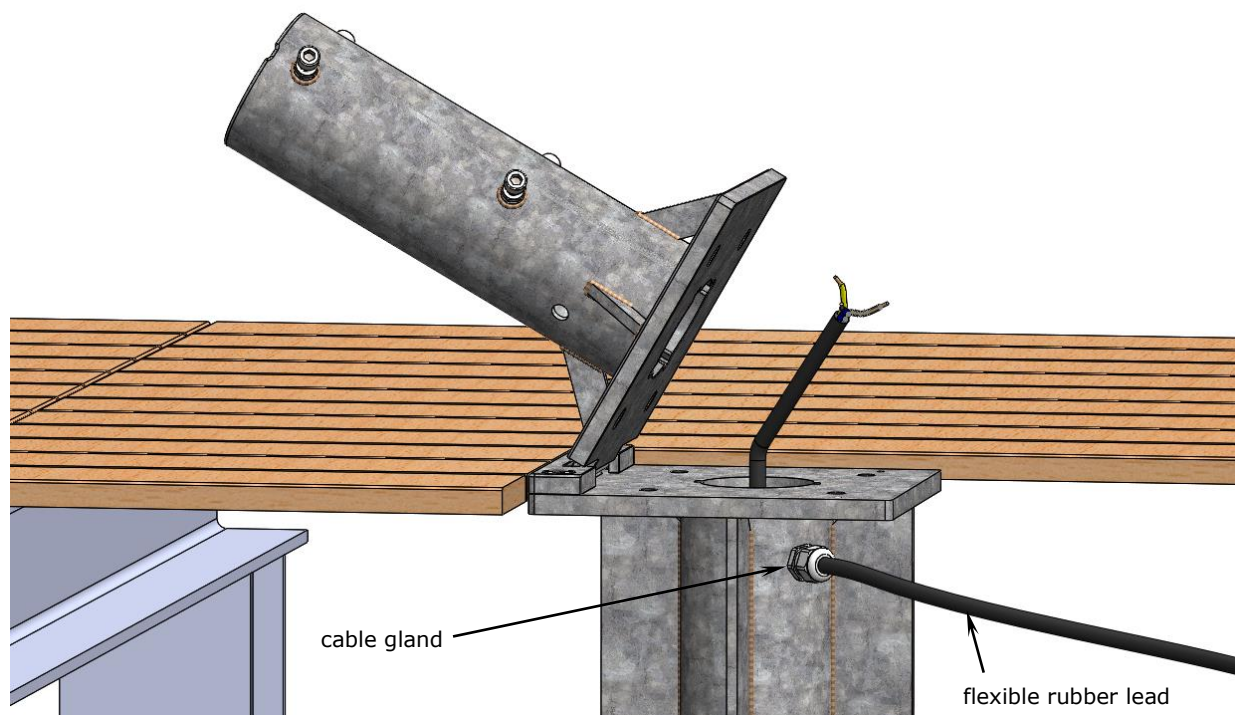
A falling parasol can cause serious or even fatal injury.

If the dimensions of the anchor bolts do not match the size of the parasol, the parasol 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 B25 till B55 and C20/25 to C50/60. Also suitable for concrete C12/15 and natural stone with dense structure.

Power supply (optional)

1. Press the flexible connecting rubber lead (certified approval for outdoor use necessary) through the cable gland and tighten the nut so that the rubber is narrowed and tension relief is provided.



2. Connect the flexible rubber lead (certified approval for outdoor use necessary) and the parasol power-supply. The connection must be absolutely watertight. The ground cable should be installed by a qualified electrician and should be appropriate for the designated consumers and length of the lead.

- power supply for heaters: 5-pole, min. 4 mm² cable cross section
- power supply for light: 230 V, 3-pole, min. 1.5 mm² cable cross section; or for 12 V, lay out individually



Danger

Electric installation work must 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 parasol with a 30 mA RCBO protective switch.
- According to law, the functioning of protective switches must be checked at least every six months.



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 parasol is erected, or seal the connector with silicon (or the like) to make it 100% waterproof.



Caution

Fire hazard.

Do not use a dimmer switch. Otherwise the parasol may catch fire. If the parasol is equipped with a timer switch or automatic switch off, a dimmer will interfere with the electrical system.

3. Wire colours (number dependent on consumers installed):

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

Storage / Dismounting

1. Fold down the upper foot with the closed parasol.
2. Disconnect the underground cable from the cable in the parasol pole.



Danger

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

- First unplug the parasol (fuse box), then disconnect the ground cable from the parasol power cable.
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3. Lift the parasol out of the foot.
4. Remove the upper foot completely by screwing it off.

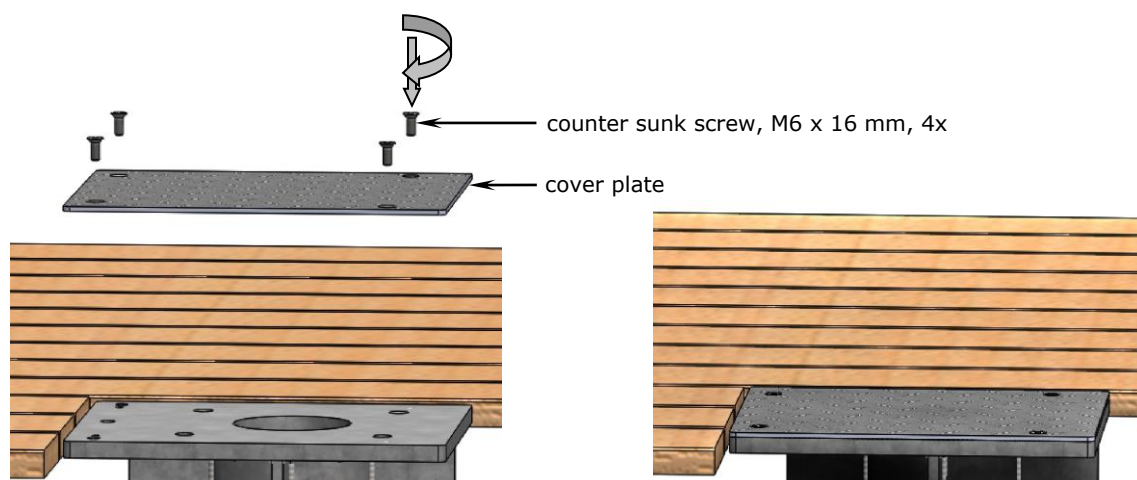
5. Unscrew the set screws with a 3 mm hex key. These serve to protect the internal thread against dirty water and sand.
6. Screw the cover plate (for winter) onto the lower foot (cf. illustration).



Caution

The thread can get damaged.

When the cover plate is not on the lower foot, 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.



7. If you have two or more parasols, 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).



Tip

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

If clearly marked, each parasol 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 foot and the lower part. For example, for parasol No. 1, all three parts should carry number 1, all three parts of parasol No. 2 should be marked with a 2, etc.
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8. Grease the screws regularly to prevent them from rusting.

Project management

All persons involved should discuss this installation option on site. If these instructions are provided to everyone during the planning period, arguments can be harmonised and therefore unnecessary costs for incorrect planning can be saved. In case this installation option is found not to be suitable, you may select another option from the MAY program. Customized options are available upon request depending on complexity.

Following parties may be involved:

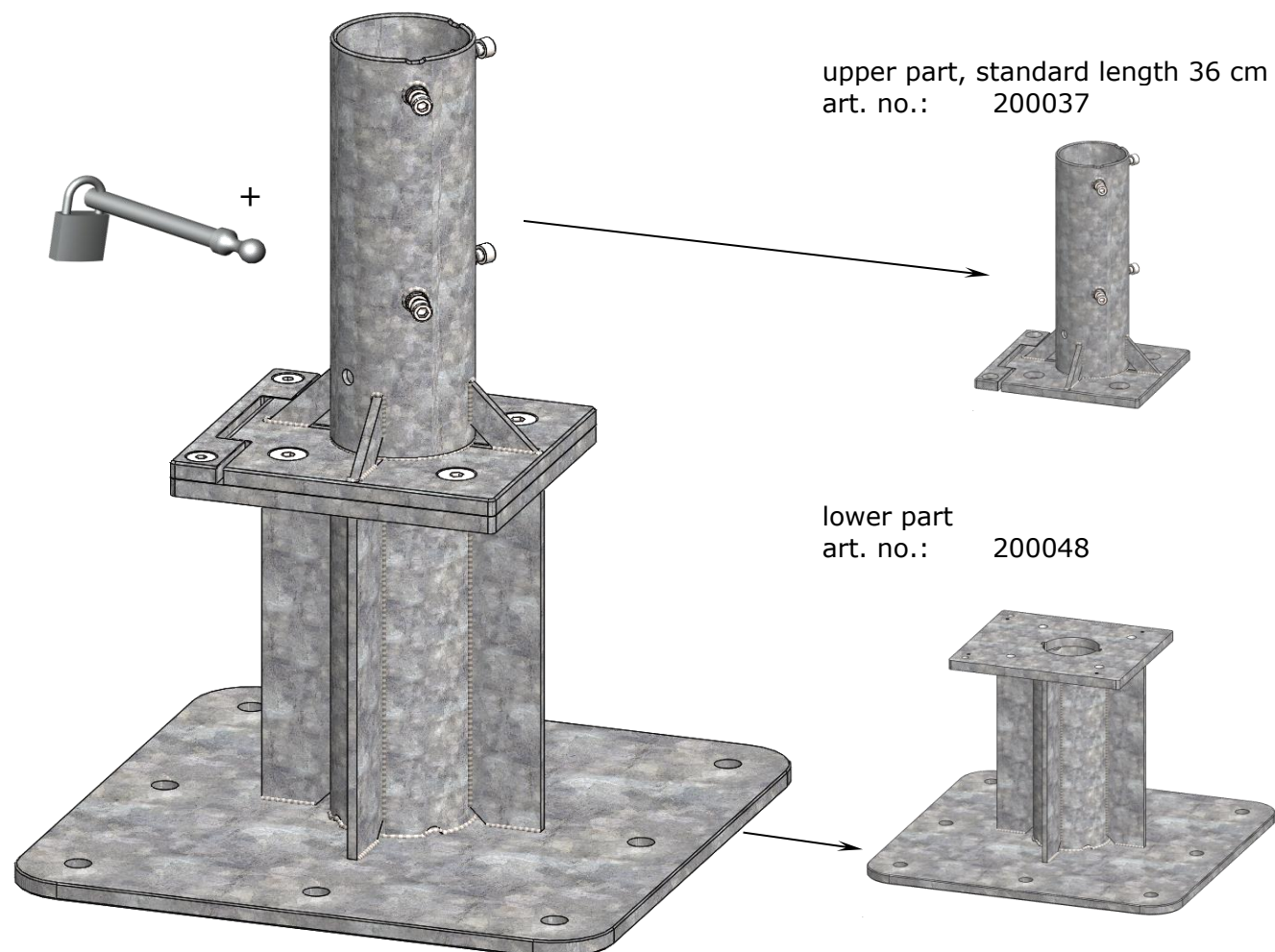
1. House owner: Approval of project, assumption of costs, order placement, etc.
2. Leaseholder / gastronome: Is the positioning of the parasols suitable for the seating, assumption of costs, etc.
3. Architect: General legal planning, positioning, statics of the flat roof (dynamic and static load by weight and wind), control and supervision of the workmen, etc.
4. Workmen: Roofer clarifies and mounts the installation option, pay attention to waterproofing sealing, setting heavy-duty anchor bolts, etc.
5. Electrician: Defines electrical connection, clarifies cable and control, etc.

Dowel-anchored plate with placement hinge and upper anchor tube, AZ128

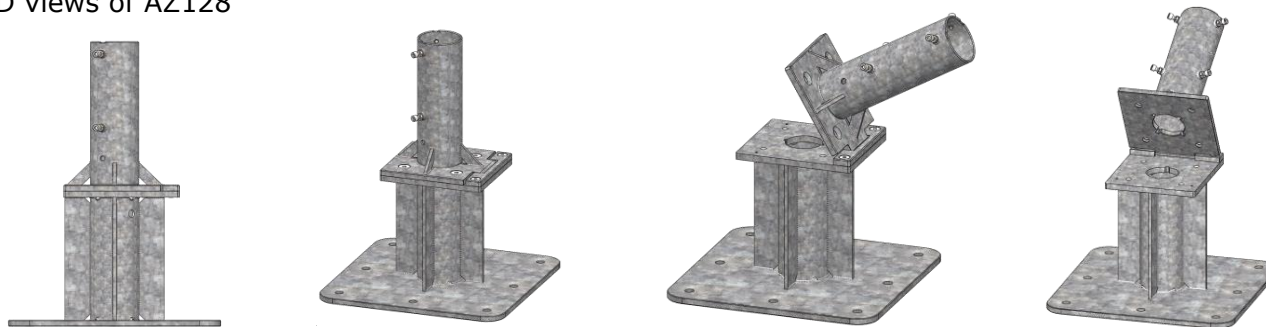


This order sheet must be filled out completely and supplied to the MAY company before production.

art. no. AZ128: 2 pieces, screw-off upper part, fits for pole \varnothing 100 mm
delivery content: inclusive pin and padlock, art. no. 200826



3-D views of AZ128



3-D views of lower part



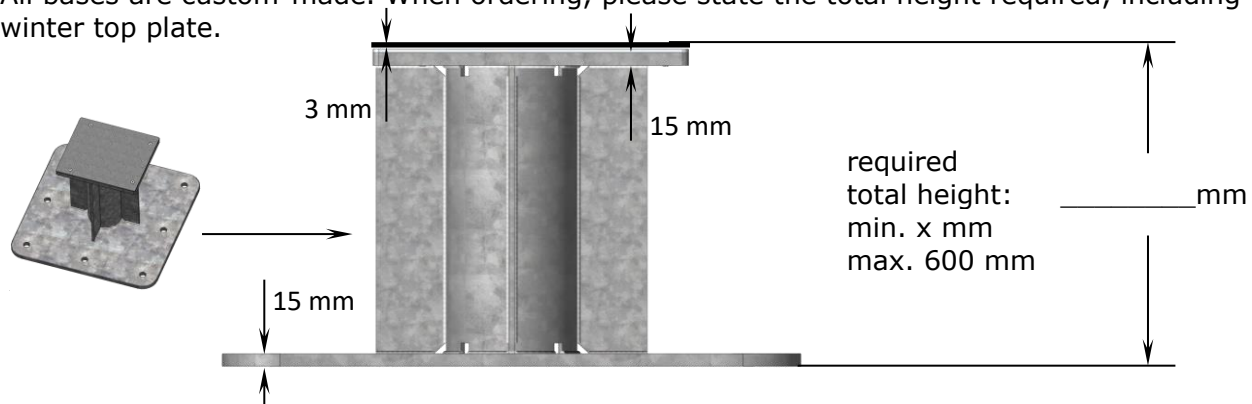
Dowel-anchored plate with placement hinge and upper anchor tube, AZ128



This order sheet must be filled out completely and supplied to the MAY company before production.

Lower part of AZ128 (200048) with top plate for winter protection.

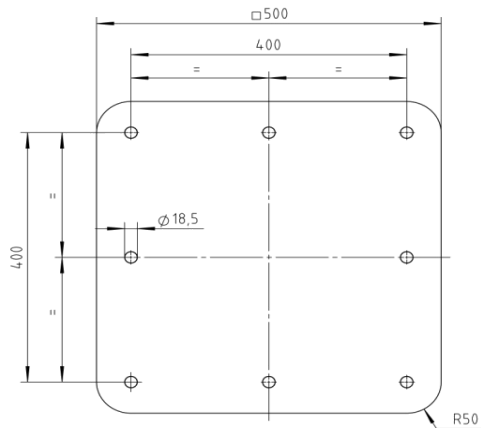
All bases are custom-made. When ordering, please state the total height required, including winter top plate.



- x: Versions without cable gland, 85 mm minimum
- x: Versions with cable gland, 100 mm minimum

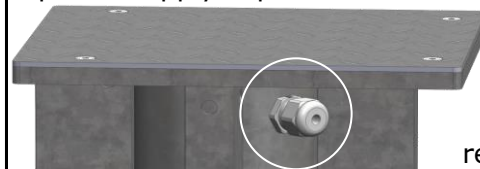
In case the „height of the lower part“ needs to be lower than 85 mm or 100 mm, option AZ028 must be used.

anchor plate:



When drilling the heavy-duty anchor bolts into the designated site position, use the anchor plate as a drilling jig. You will need 4 heavy-duty anchor bolts. Available in stainless steel A4, art. no. 200900, 2 packages.

Cable gland for tension relief. Only necessary if power supply is planned.



required _____ (mandatory)
not required _____

When ordering, please fill in the fields below:

Quantity: _____ (mandatory)

(Dealer-) Name and address: _____ (optional)

(Dealer-) Commission: _____ (optional)

(Dealer-) Order number: _____ (optional)

(Dealer-) Name of clerk in charge: _____ (optional)

Order placed: _____ (mandatory)

Name

Date

Only for MAY Gerätebau GmbH:

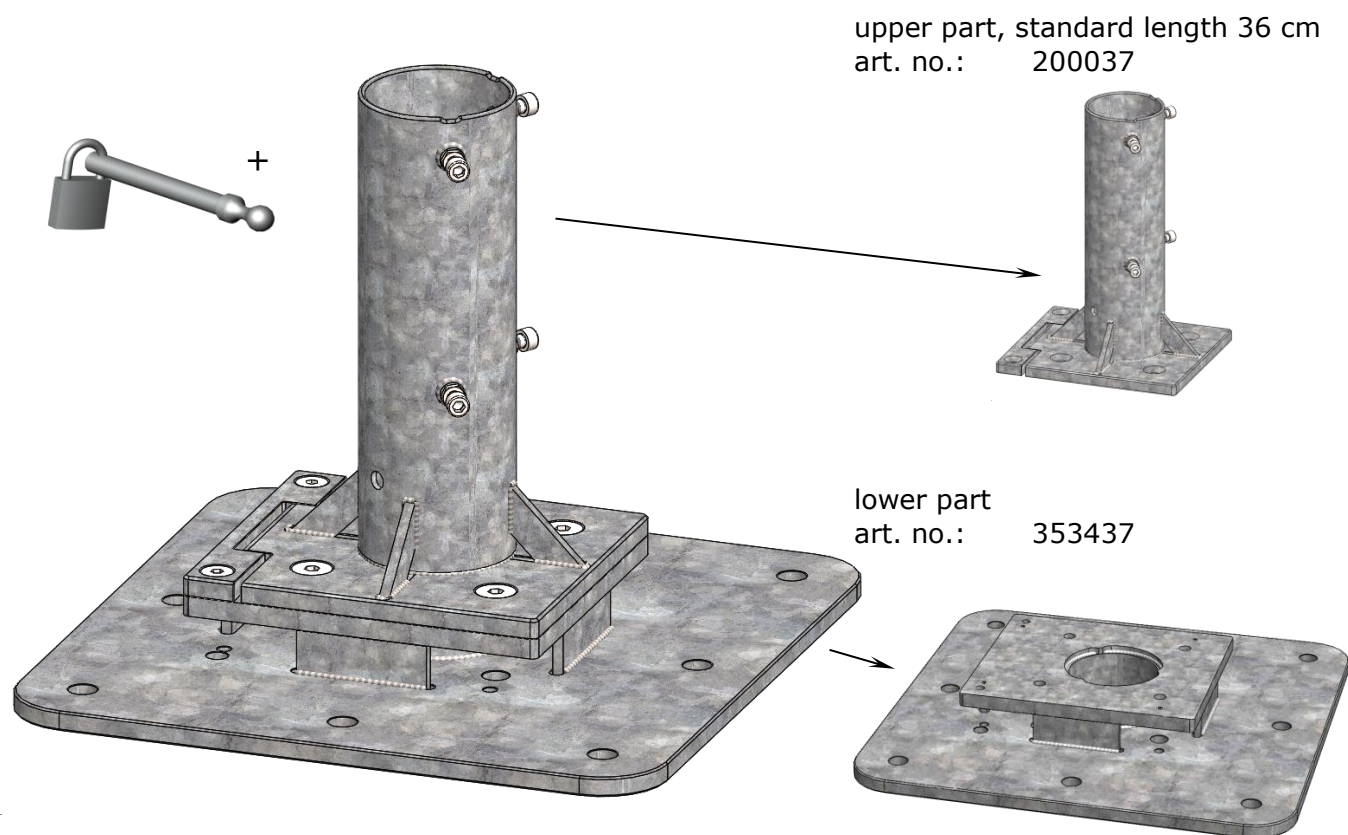
Order number: _____

Dowel-anchored plate with placement hinge and upper anchor tube, AZ028

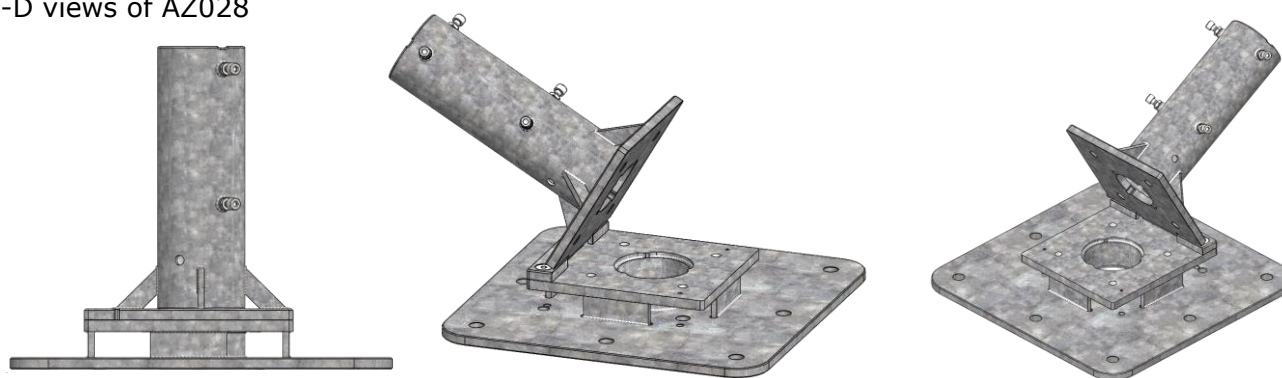


This order sheet must be filled out completely and supplied to the MAY company before production.

art. no. AZ028: 2 pieces, screw-off upper part, fits for pole \varnothing 100 mm
delivery content: inclusive pin and padlock, art. no. 200826



3-D views of AZ028



3-D views of lower part

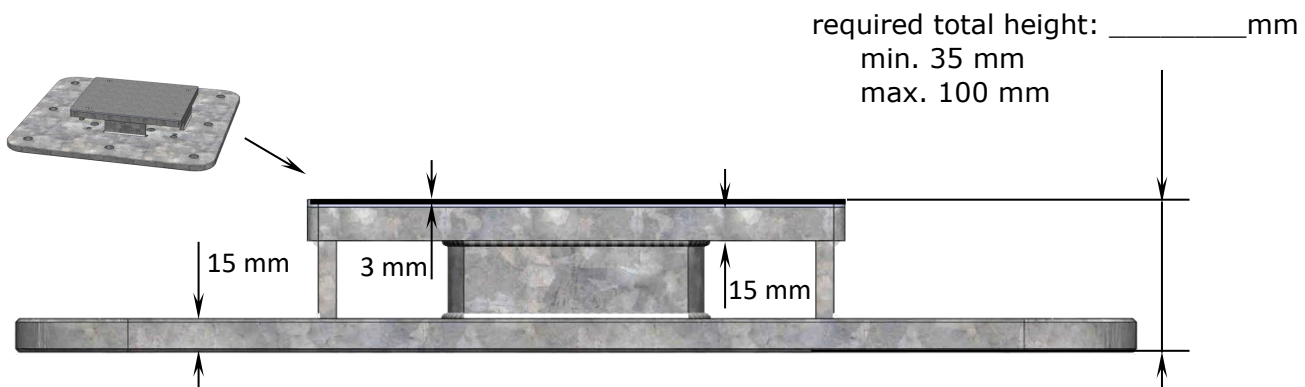


Dowel-anchored plate with placement hinge and upper anchor tube, AZ028



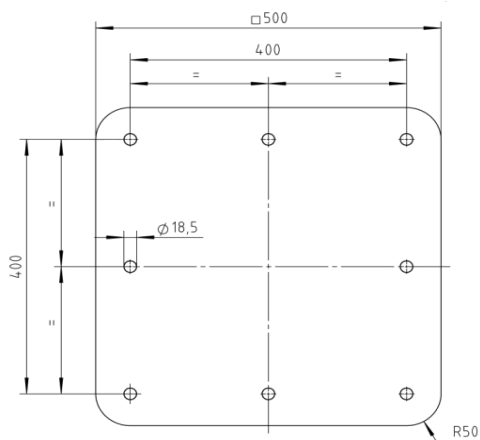
This order sheet must be filled out completely and supplied to the MAY company before production.

All bases are custom-made. When ordering, please state the total height required, including winter top plate.



In case the „height of the lower part“ needs to be larger than 100 mm, option AZ128 must be used for stability reasons.

anchor plate:



When drilling the heavy-duty anchor bolts into the designated site position, use the anchor plate as a drilling jig. You will need 4 heavy-duty anchor bolts. Available in stainless steel A4, art. no. 200900, 2 packages.

No space for cable gland (for tension relief).

When ordering, please fill in the fields below:

Quantity: _____ (mandatory)

(Dealer-) Name and address: _____ (optional)

(Dealer-) Commission: _____ (optional)

(Dealer-) Order number: _____ (optional)

(Dealer-) Name of clerk in charge: _____ (optional)

Order placed: _____ (mandatory)

Name

Date

Only for MAY Gerätebau GmbH:

Order number: _____