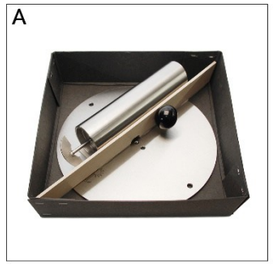
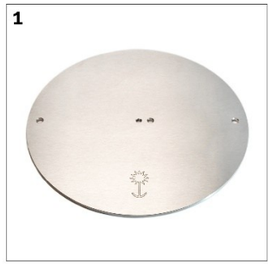
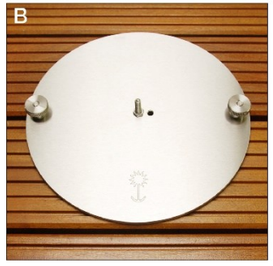
INSTRUCTION MANUAL

Parasol Base with Double Anchor







Contents

Unless otherwise stated, all parts are made of stainless steel of at least V2A grade, and often V4A grade.

The following parts are included in the delivery:

1 **1 base plate**, Ø 29 cm (1)
2 **1 pole holder** (2a), internal Ø 42, 52 or 68 mm
2b 1 ball screw
2c 1 threaded pin M 8
2d Inserts (EPDM and hard PVC)
3 **2 anchors** with points (3a) including nuts and washers
3b 2 washers Ø 16 mm
3c 3 flat hex nuts M8
3d 4 washers Ø 20 mm
3e 2 knurled nuts Ø 30 mm, M 8
3f 2 rings Ø 16/19 mm
4 **Accessories**
4a 13 mm spanner
4c Instruction manual

Caution! Small parts may fall through the gaps between the decking boards. That is why we include an extra spare for important small parts.

Your parasol base can be assembled quickly. All you need is the supplied spanner! Follow the video on our website sonnenanker.de or these step-by-step instructions.

Please follow these instructions!

Even if you are assembling the parasol base using our video (www.sonnenanker.de/videos), please read these instructions. They contain important additional information.

This parasol base works differently from most others. To ensure you enjoy using it, please read the user manual thoroughly and carefully. Admittedly, there is a lot of text; but it can save you from unpleasant experiences.

Please pay particular attention to the safety instructions. Faulure to follow these instructions may in personal injury or poroperty damaget. We accept no liability for damage caused by improper use.

You can also find these instructions at www.sonnenanker.de/-service/bedienungsanleitungen/.

Suitability

This parasol base must only be fixed to decking boards that are screwed down. Two small anchors are placed in the gaps between securely your decking boards and secured to them. Your decking boards and the parasol base thus form a system that cannot tip over.

The load-bearing capacity of this system depends mainly on the pull-out strength of the decking boards. This system depends far more on the type of fastening than on the material of the boards.

This parasol base is designed for heavy parasols with a round central pole. For cantilever parasols, our parasol base with four anchors is suitable.

Load-bearing capacity

This parasol base is designed to secure heavy parasols with a central pole and a canopy up to Ø 3.5 m on well-screwed decking boards. Using two anchors instead of a single central anchor provides greater stability.

Furthermore, you can place the two anchors in two adjacent joints. The parasol base then engages with three decking boards instead of two. This distributes the load across additional screw connections between the decking boards and the substructure.

With this parasol base, you can set up parasols with a central pole up to Ø 3.5 m on almost any decking, provided you close the parasols when wind speeds exceed force 5. Larger parasols and higher wind speeds are possible if your decking boards are screwed from above.

The pull-out strength of concealed screw-fastened systems varies considerably. The following figures can therefore only be taken as a guide. In addition to the screw-in depth, the material of the decking boards and the substructure, as well as the fastening clips or fittings, the elasticity and stability of the parasols also play a role.

Our recommendations apply to all fastenings where the decking boards are not simply laid loosely or clipped in place. In most cases, the fixings can withstand higher loads. Only test higher

loads if you are continuously monitoring the situation. With natural wood decking, failure is usually preceded by noticeable noises. Screws in WPC decking, on the other hand, usually tear out without warning. Screw connections in aluminium profiles often have low pull-out strength.

The following recommendations take into account a tensile force limit of 500 kg. Higher tensile forces may damage the anchors.

beau-fort	size of the canopy for centre-pole parasols				
	Ø 2.5 m	Ø 3.0 m	Ø 3.5 m	Ø 4.0 m	4 m x 4 m
5	A	A	B	C	C
6	A	B	C	D	D
7	B	C	D	D	E
8	C	D	E	E	
9	D	D	E		

A suitable for most fixings, even when the parasol is tilted

B suitable for most fixings

C suitable for most fixings, provided your parasol does not deform

D suitable for any screw fixing from above through the decking

E Suitable for any top-down screw-fixing through the decking into a hardwood substructure

Wind force 5, a fresh breeze, can be recognised by larger branches moving. At wind force 7, trees sway. At wind force 9, it is stormy and branches break.

Assembly

Important note: The screws and nuts for this parasol base have been tested to ensure they can be tightened by hand. Always ensure that the screws and nuts do not jam! If they do not grip or become stuck, start again! Clean the threads if necessary. Do not use force!

1. First, lift the stainless steel tube with the wooden strip out of the box (**FIGURE A**), remove the inserts (**FIGURE 2d**) from the tube and unscrew the wooden strip. The wooden strip is only used to secure the item during transport.

2. Remove the box containing the fixing materials and the base plate (**FIGURE 1**) from the box. Some of the fixing materials are so small that they can easily fall through the gaps in your decking. Therefore, empty the contents of the box onto the lid of the box.

3. Screw the mast mount onto the base plate. To do this, screw the threaded pin (**FIG. 2c**) by hand into the thread in the centre of the base plate (**FIG. B**). The threaded pin must not protrude beyon. Screw a flat nut (**FIG. 3c**) onto the threaded pin. Hold the threaded pin with your fingertips and tighten the nut using the spanner. Screw the mast mount onto the threaded pin and tighten it firmly by hand. This works best if you have screwed the large ball screw (**FIG. 2b**) into the mast mount. Ensure that the connection between the base plate and the pole holder is always tightened securely. There must be no gap between the pole holder and the base plate. If the gap is too large, the threads of your parasol base will almost inevitably be damaged due to the high leverage forces involved.

4. Insert the two anchors (**FIG. 3a**) from below through the two holes at the edge of the base plate. Slide a small washer (**FIG. 3b**) onto each anchor from above. Screw a flat nut (**FIG. 3c**) onto each anchor until it is halfway into the thread.

5. Lift the parasol base. It is best to grip it by the ball screw in the pole holder (**FIG. C**). Position the parasol base in the desired location by rotating it until the anchors fit into two adjacent gaps between the decking boards. Align the anchors so that they can slide into the gaps. The markings on the tops of the anchors, on the pins, must point in the direction of the gap.

6. Rotate the anchors into the correct position to secure the parasol base to the decking boards. The marking on the anchors must be perpendicular or at an angle to the joint. The anchors do not need to be aligned exactly perpendicular to the joint. With decking boards that are profiled at the bottom, the tips on the anchors may find a grip if the anchor is positioned at an angle to the joint. Press the anchors all the way down. The anchors should now rotate freely. Move the umbrella stand if an anchor is too close to the sub-structure and cannot be rotated. If necessary, unscrew the flat nut slightly further. If the anchors still cannot be turned, please contact us. You will then need longer anchors.

7. Using the fingertips of one hand, lift one of the anchors and, using the fingertips of the other hand, screw the flat nut down as far as possible. Release the anchor and carefully continue to tighten the nut with your fingertips. You will soon notice that the anchor no longer moves, as the small prongs on the underside of the anchor have found a firm grip on the underside of the decking boards.

8. Now tighten the nut with the spanner. As soon as you feel significant resistance, tighten the nut by no more than half a turn. Make absolutely sure that the anchors are not crooked. Otherwise, the flat nuts would jam and become stuck when tightened.

9. Finally, slide the ring (**FIG. 3f**) over the washer and the flat nut, and screw the knurled nut (**FIG. 3e**) onto it. If you cannot slide the ring on completely, this can be easily achieved with the help of the knurled nut. In this way, the anchor and the screw connection are covered and can no longer get dirty or injure you.

10. Although the knurled nut does not rest directly on the flat nut, it prevents the flat nut from loosening by more than half a turn. This is sufficient to ensure that the anchor cannot shift. You can check the position of the mark at any time on the anchors whether the anchors are still secured to the decking boards. Therefore, the upper end of the anchor should protrude slightly beyond the knurled nut. If it protrudes too far, place one or more washers (**FIGURE 3d**) under the knurled nut. With this method of fastening, the anchors are unlikely to come loose on their own, unless you are installing your parasol base whilst the decking is still very wet. Thicker decking boards can shrink so much during prolonged dry spells that you will need to retighten the flat nuts.

11. Proceed in the same way with the second anchor. Ensure that the pole holder and base plate are securely screwed together.

Accessories

Each parasol base comes with materials to securely attach thinner poles. These accessories consist of a larger piece of pipe that can be clipped onto the pole, and a smaller piece of pipe to fill the remaining annular space (**FIGURE 2d**). There is also a rubber-mat that can be cut to size. Additional material is supplied if requi ed. The two pipe sections for the largest mast mount (Ø 68 mm) are the same size.

Try wrapping the entire EPDM mat around the end of the mast. If you can press the larger pipe section onto the side of the thickened end of the mast with moderate force, the adjustment is successful. The adjusted mast now fills the mast mount well. If it is too thick, you must shorten the EPDM mat accordingly or omit it entirely. The larger tube section clamps the EPDM mat securely in place without any additional aids. It is best to leave the spares on the mast. Wherever possible, use these aids to protect your parasol pole. Otherwise, the clamping screw may leave dents or other marks on the parasol pole.

Dismantling

1. Unscrew the knurled nut. Remove the ring and – if used – the washers for height adjustment. **Caution!** The parts can easily fall through the joints.

2. Loosen the flat nut, but do not unscrew it completely. With wide joints, the anchor could fall through the joints. The thread should protrude about half a centimetre beyond the nut. If the anchor does not sink down by itself, press the anchor down or tap the upper pin of the anchor lightly.

3. Twist the anchors so that they are disengaged from the decking boards. To do this, the mark on the anchor's pin must be aligned with the joint.

4. You can now lift the parasol base and move it to another location.

Safety instructions

Take particular care when setting up the parasol base on a roof terrace. Parasols and bases that come loose can fall from a height and injure people or damage property.

The sonnenanker parasol base does not simply rest on the decking boards; it relies on the boards to achieve stability. Therefore, ensure that the decking boards are not rotten and are securely screwed to the substructure. Information regarding the load-bearing capacity of your decking can be found at the beginning of this user manual. Only test loads higher than those specified there if you constantly monitor the parasol and stand.

The load-bearing capacity specifications for concealed-fixing decking boards are only guidelines and not binding guarantees. Gauge the actual pull-out strength carefully. Reduce the load if

components of the decking board fixing system become permanently deformed. Close your parasol in good time or use a smaller one.

The anchors of our parasol bases are individually tested. They can withstand a tensile load of 500 kg. Beyond this, deformation or breakage may occur. Check the anchors at least once a year and after any exceptionally high load for cracks below the thread and at the weld seam, as well as for deformation. Do not continue to use anchors with cracks. Please send them to us. You will receive a replacement immediately.

We strongly recommend that you do not leave the parasol open in strong winds. At the very latest when your parasol becomes deformed and the wind catches in the fabric, you should close it and under no circumstances leave it unattended. It cannot be ruled out that your parasol may be damaged or torn away. Furthermore, your decking or the anchor of the parasol base may be damaged. Check the anchors after such an incident.

We endeavour to avoid plastic packaging. Keep plastic film, bags and small parts well out of the reach of children. There is a risk of suffocation!

Please observe any additional national regulations that may apply in your country.

Care

Keep all parts of the parasol base clean, particularly the threads. Dirty threads are stiff to turn. Under certain circumstances, they may become so badly damaged that they are unusable. Accumulations of dirt can disrupt the passive layer and cause even stainless steel to rust.

Ensure that no parts of your parasol rust and that this rust cannot come into contact with the parasol base.

Follow the enclosed care instructions for stainless steel surfaces.

Packaging

It is advisable to keep the box in case of a return. Pack the components exactly as they were delivered. You can then ship the parasol base without any additional packing material.

The box is not just for transport. It can also be used to store your parasol base over the winter, saving space. The sturdiness of the box matches the durability of the parasol base.

Troubleshooting

Problem: The parasol base is wobbly.

Causes: The anchors are not securely fixed to the decking.

Solution: Unscrew the knurled nuts. Tighten the flat hex nuts using a spanner.

Problem: The parasol is wobbly.

Causes: The ball screw or the pole holder has come loose.

Remedy: Tighten the ball screw or the pole holder. There must be no gap between the pole holder and the base plate. If such a gap is too large, the threads on your parasol base will almost inevitably be damaged due to high lever forces.

Do not allow anyone to operate the parasol base whom you have not instructed.

Please follow these operating instructions. Do not make any modifications to the parasol base without our consent.

Keep these operating instructions in a safe place. Pass on the operating instructions if you pass on this parasol base to someone else. You can also read and download any operating instructions from our website.

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