

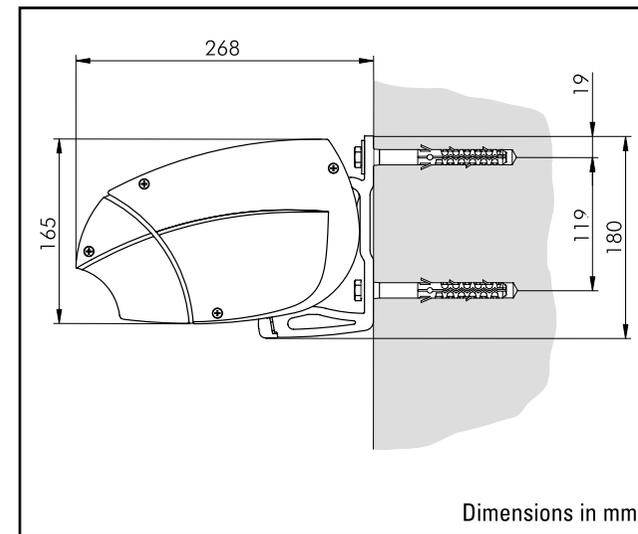
MOUNTING INSTRUCTIONS: HELIO SHADE CASSETTE – FOLDING ARM AWNING

1. The following tools are required:

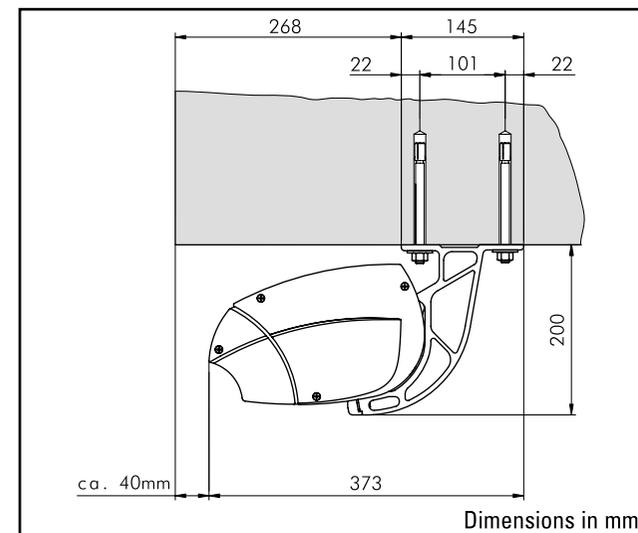
- Percussion drilling machine with
- Masonry drill bit, Ø 10 mm, for mounting on concrete
- Masonry drill bit, Ø 12 mm, for mounting on stone walls
- Masonry drill bit, Ø 16 mm, for mounting on masonry
- Wood and HSS drill bit, Ø 6 mm, for mounting on wood
- Ratchet with extension and 13 mm respectively 17 mm sockets
- Allen key (5 mm and 6 mm)
- Open-end wrench (7, 13 and 17 mm)
- Slotted screwdriver
- Spirit level and string for the alignment
- String to align the consoles
- Blind rivet pliers

2. Mounting dimensions

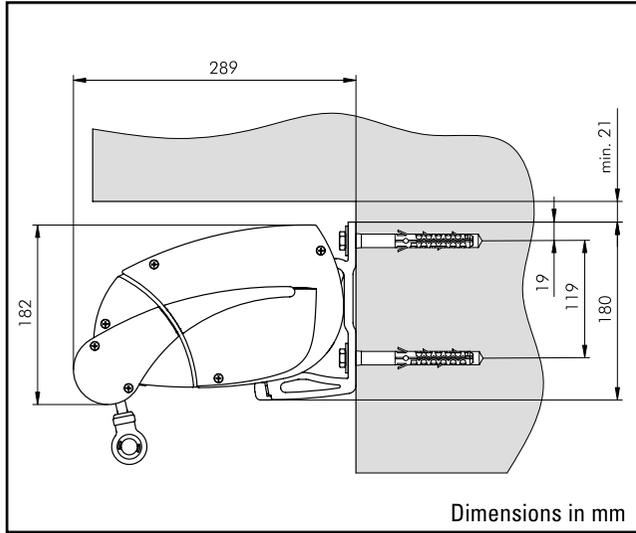
Wall mounting Helioshade Cassette



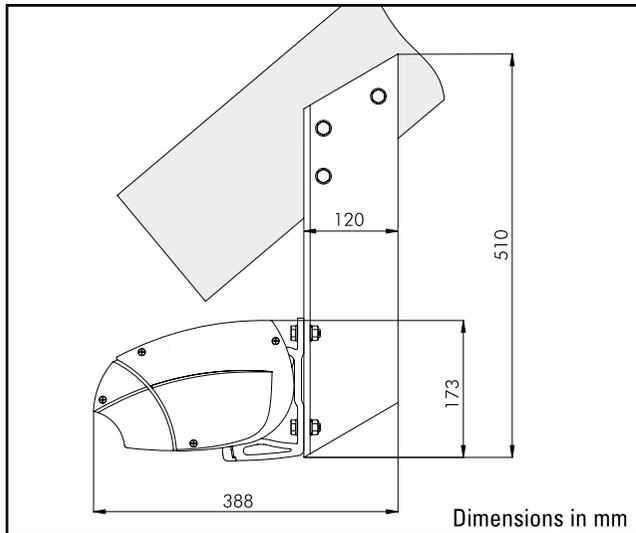
Ceiling mounting Helioshade Cassette



Wall mounting Helioshade Cassette (with Variovolance)

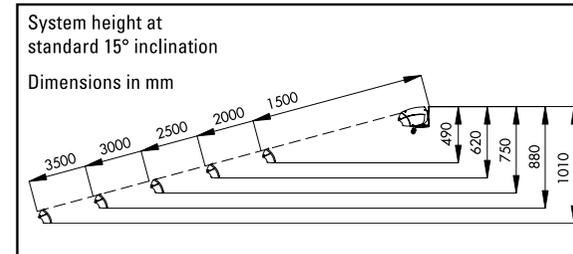


Rafter mounting Helioshade Cassette

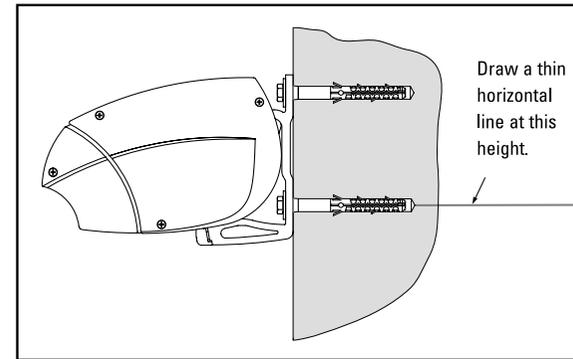


3. Determination of the mounting height for wall mounting applications

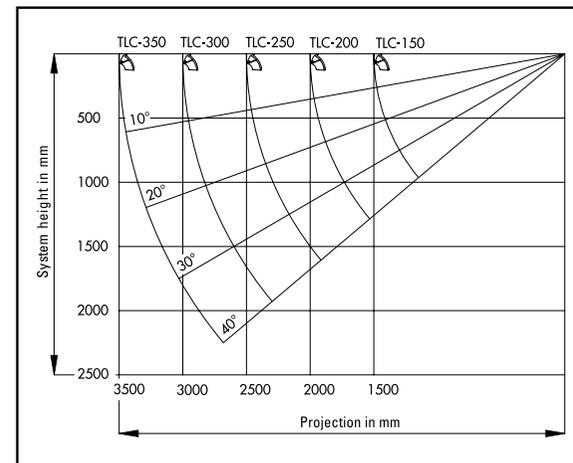
To determine the mounting height, consider the projection and the inclination of the awning...



... then draw a thin horizontal line on the wall.

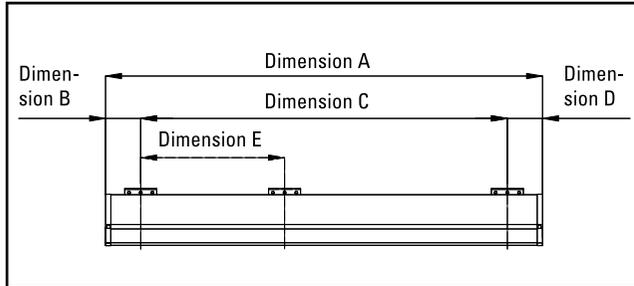


Important! A minimum inclination of 15° is recommended if the awning is to provide protection against rain.



4. Bracket mounting position

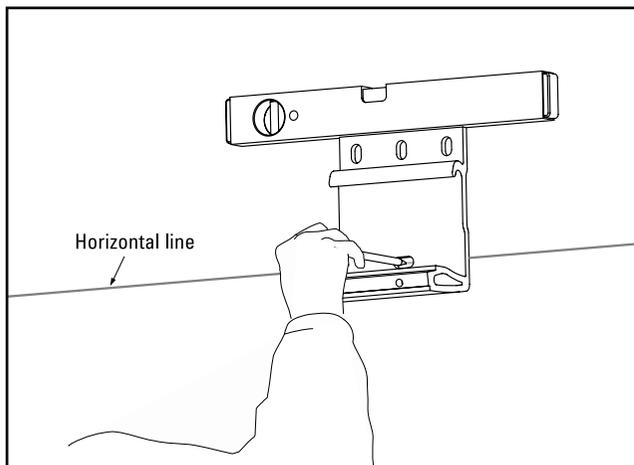
Determine the bracket positions in accordance with the sticker on the rear side of the cassette and mark them on the wall or ceiling.



Important! Do not exceed the max. positions from the bracket centre as indicated on the stickers. Attempt to achieve the ideal position for the bracket centre.

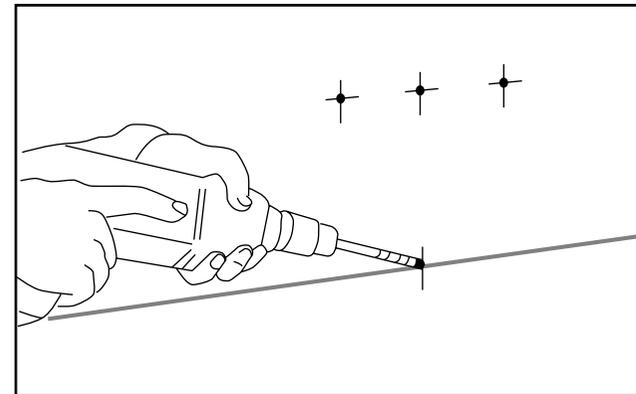
5. Drilling holes for the brackets

Hold each bracket against the position determined for it and mark the bracket bore hole positions on the respective base material.



Select the appropriate drill bit for the respective base material:

- **Concrete:** Ø 10 mm masonry bit for M10 segment anchors (standard length: 90 mm).
- **Hollow brick masonry:** Ø 16 mm masonry bit for injection gluing with a Ø 16 mesh sleeve (not included in the scope of delivery)
- **Stone walls and other massive base materials:** Ø 12 mm masonry bit for injection gluing without mesh sleeve (not included in the scope of delivery)



Important!

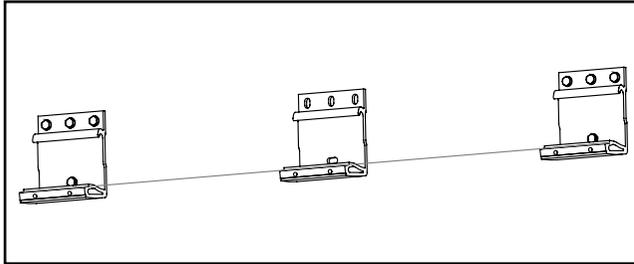
In consideration of the weight of the awning and the wind load, the dowels are subjected to pulling forces of up to 4,600 N (approx. 460 kg) at wind force 5 (approx. 35 km/h).

The number of supplied brackets and fixtures is appropriate for these values if mounted in concrete.

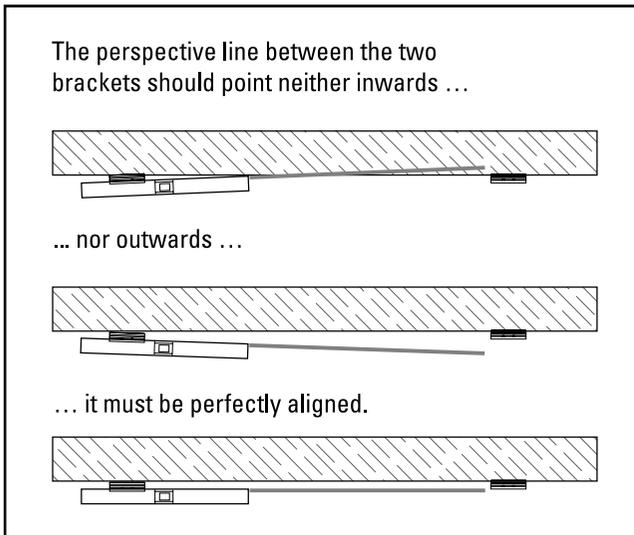
To purchase suitable mounting accessories for the applicable base material, please consult your specialist dealer.

6. Attachment of the brackets

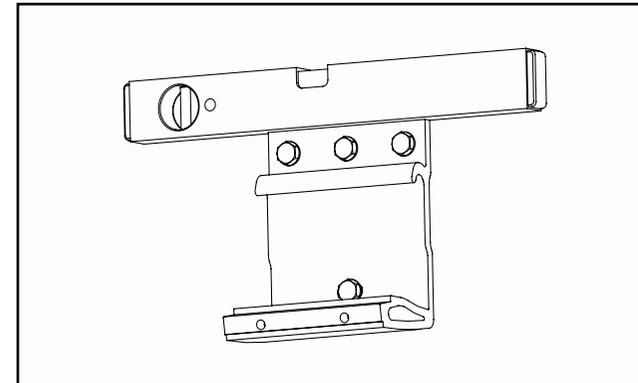
At first, tighten the bracket screws only slightly...



...then align the brackets exactly using a spirit level.

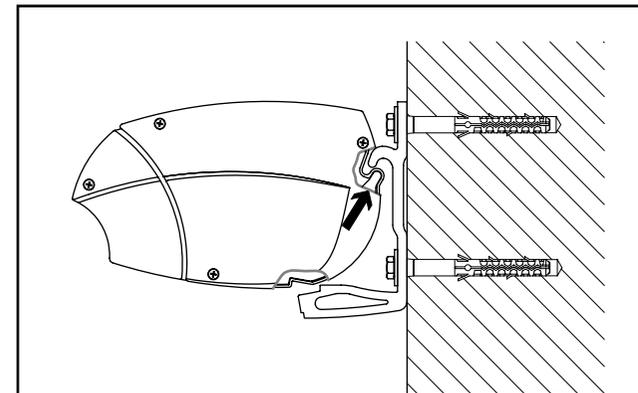


- Please note that uneven sections in the wall may cause considerable deviation with regard to the bracket alignment. Therefore, it is necessary to check the alignment of each bracket with a spirit level.
- Now tighten all screws fully and check that the brackets are attached properly.

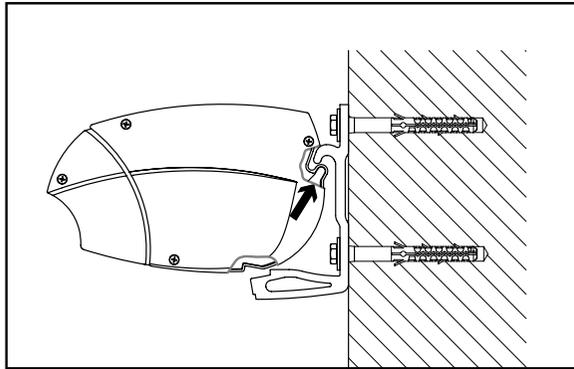


- If three brackets are required, loosely fit the two outer brackets first, then align the middle bracket exactly with a string.
- Build up the base material if necessary to compensate for any unevenness in the wall.
- Now tighten all screws firmly and check the brackets to make sure they are seated properly.

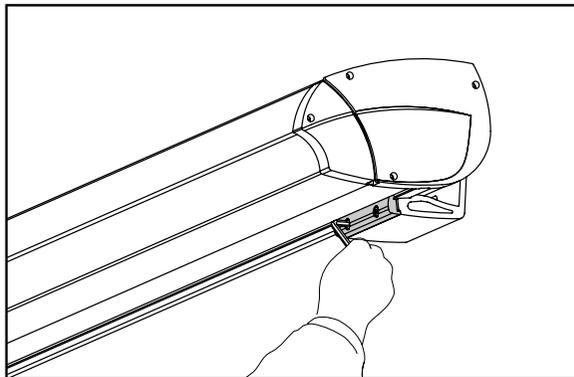
7. Fastening the awning



Tilt the awning upwards slightly and hook into the bracket from below...



...push back and then let the awning down. Once the awning has been hooked in properly, it will support itself, but it still needs to be secured.



Now insert the Allen screws to fix the console closing parts to the brackets and tighten firmly with the Allen key (6 mm). This secures the awning and prevents it from falling down.

8. Initial operation

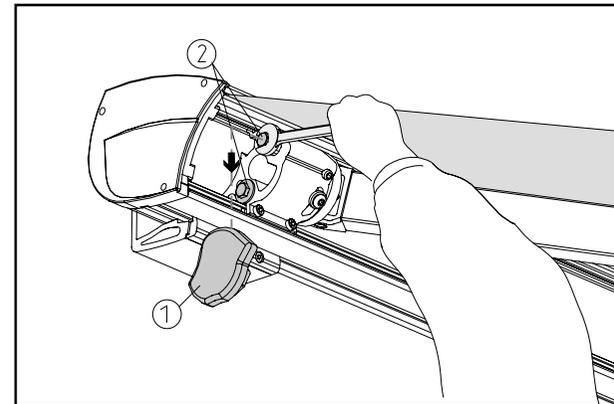
8.1 Motor drive

- The electrical installation on site must be performed by a skilled electrician.
- **The limit switches of the motor are pre-set in the factory.**
- In the event of a significant correction of the angle of inclination, the motor must be readjusted.

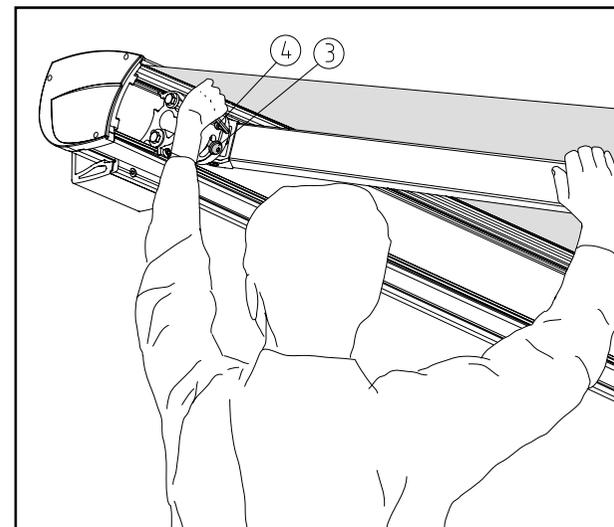
9. Alignment of the arm inclination, adjustment of the angle of inclination

9.1 Adjusting the arm inclination

- Extend awning a little.



- Using a slotted screwdriver, remove the cover (1) from the arm support.
- Slightly loosen the hex-head screws (2) with the 17 mm open-end wrench.



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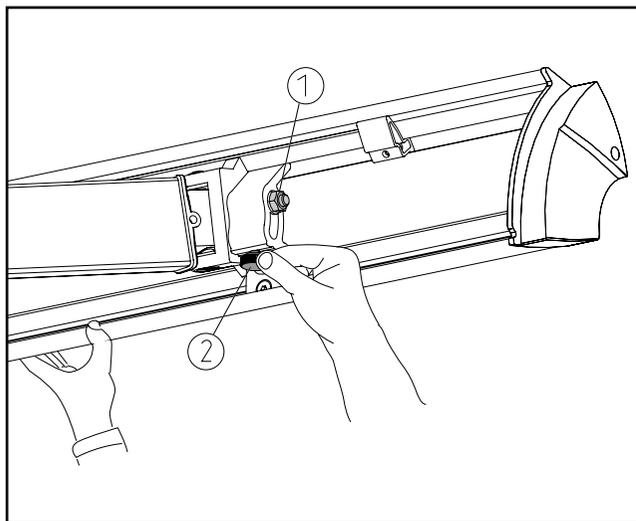
- Loosen tallow-drop screw (3) with the 6 mm Allen key.
- Lift slightly to relieve the load on the arm and adjust the inclination by turning threaded pin (4) with a 6 mm Allen key.

**To lower the awning, turn counter-clockwise;
to raise the awning, turn clockwise.**

- If the inclination setting is changed significantly, the arms must be adjusted alternately. The maximum permissible difference in inclination is 10°.
- After having performed the arm adjustment, retighten tallow-drop screw (3) firmly.
- Then tighten hex-head screws (2) firmly.
- Finally, refit cover (1).

- Loosen stop nut (1) with the 13 mm open-ended wrench.
- Move the drop profile into the desired inclination position with one hand.
- With the second hand, re-adjust setscrew (2) to fix the position.
- Make the identical setting on the second side.
- Visually verify whether the side parts of the front cover element and the cassette are properly aligned. If necessary, re-adjust the front cover element.
- Re-tighten stop nut (1) on both sides.
- Retract the awning and check the closing of the cassette. The inclination of the front cover element is set optimally if the joint between the side parts is parallel.

9.2 Adaptation of the front cover element to the set inclination of the awning



- Visually verify by how much and in which direction the front cover element must be adjusted in relation to the cassette.
- Slightly extend the awning.