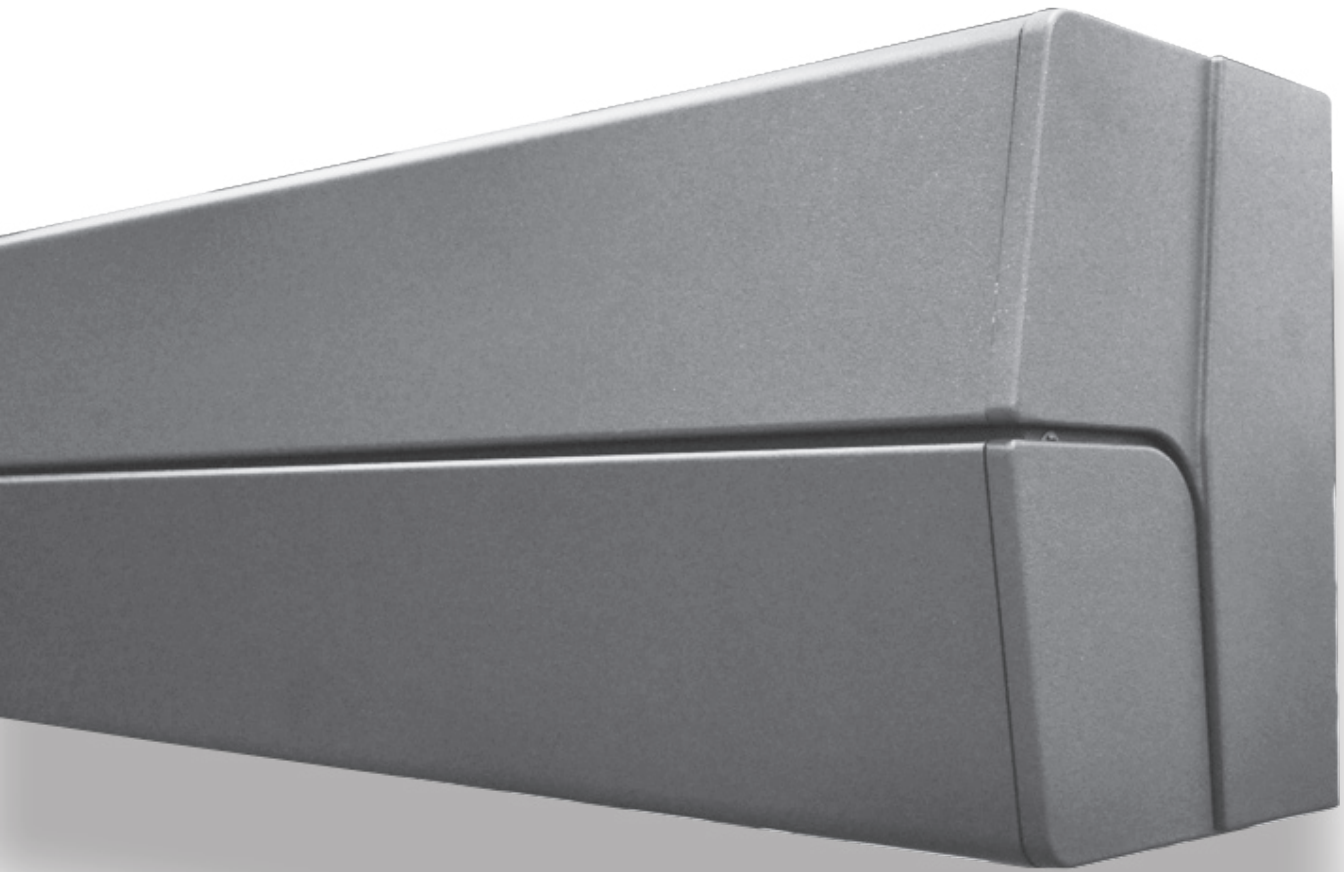


RUBIX

INSTALLATION GUIDE



CONTENTS

	Page
1. SAFETY	
1.1 Explanation of the safety notes	3
1.2 General safety information	3
2. INSTALLATION	
2.1 Tools, resources and materials	3
2.2 Preparing the installation	3
2.3 Mounting situations: Wall, ceiling and rafter	4
2.4 Mounting height and position of the brackets	5
2.5 Mounting technique	6-7
2.6 Fastening the awning	7
3. INITIAL OPERATION	
3.1 With motor drive	
3.2 Adjust inclination of the awning	9
3.3 Completing the installation / Transfer to the client	10
4. DISMOUNTING	10
5. TROUBLESHOOTING	10

1. SAFETY NOTES, WARNINGS AND MOUNTING INFORMATION:

1.1 EXPLANATION OF THE SAFETY NOTES

SAFETY NOTES AND IMPORTANT INFORMATION ARE INTEGRATED IN THE TEXT AS APPROPRIATE. THESE NOTES ARE ALSO HIGHLIGHTED BY SYMBOLS.







This symbol means that the relevant note is important for the safety of persons or for the function of the awning.



This symbol highlights important product information for the installation engineer or user.

1.2 GENERAL SAFETY INFORMATION



-  The HELIOSCREEN RUBIX awning has been designed and manufactured in conformity with DIN EN 13561. However, when the awning is mounted or operated, the persons involved in the respective activity may be put at risk if the relevant instructions are not observed.
-  Only qualified and duly specialized companies or trained specialist personnel may be permitted to mount the awning.
-  Always observe the information and notes in the installation and operation instructions.
A failure to observe the relevant information will render the manufacturer's liability null and void.
-  The safety-at-work and accident prevention regulations specific to each country must be complied with. In particular, a person performing special work at height must be suitably secured.
The notes on the product and its packaging must be observed.

2. INSTALLATION


2.1 TOOLS AND MATERIALS

- Drill
- Drill bits, suitable for the drilling substrate and the mounting pieces
- SW 3, SW 5 and SW 10 Allen keys
- Ratchet with SW 17 socket
- SW 13 ring or fork spanner
- Spirit level and string for alignment
- String for alignment of the brackets
- Test cable, resp. adjustment set (for initial operation)

2.2 PREPARING THE INSTALLATION

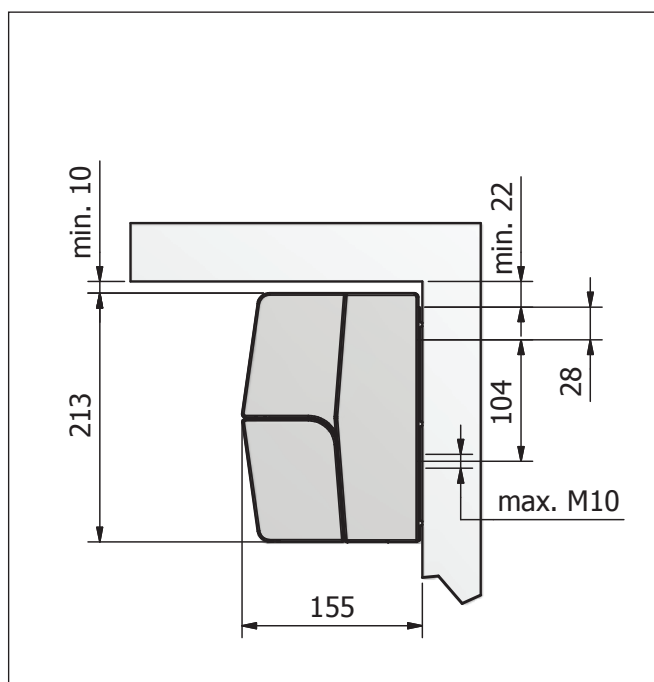
-  Transport the awning to the site of installation, ensuring that the orientation is correct.
-  Secure the installation zone (the secured zone must be at least equivalent to the size of the fully deployed awning). If the awning is hoisted to higher installation positions with ropes, the awning must be removed from the packaging. When attaching the hoisting ropes, ensure that the awning is properly fastened, but not damaged. Hoist the awning exclusively in horizontal position and evenly.

Before commencing the installation, please verify whether the type and number of brackets is in conformity with the order and whether the base material is the same as that stated on your order.
If significant differences make the safe installation of the awning seem doubtful, please consult the manufacturer of the system and a mounting/installation specialist.

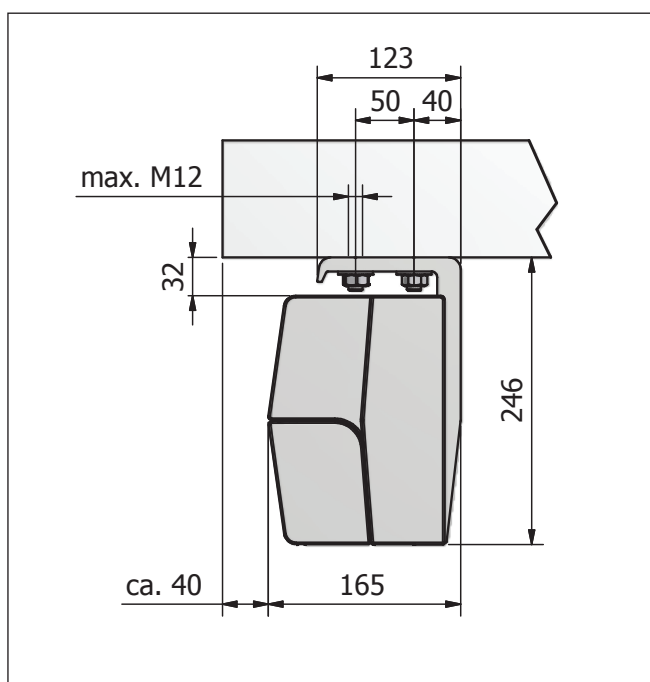
-  If the information above is not observed, the awning system may fall down and put the health of persons at risk!

2.3 MOUNTING SITUATIONS

WALL MOUNTING



CEILING MOUNTING



2.4 MOUNTING HEIGHT AND POSITION OF THE BRACKETS

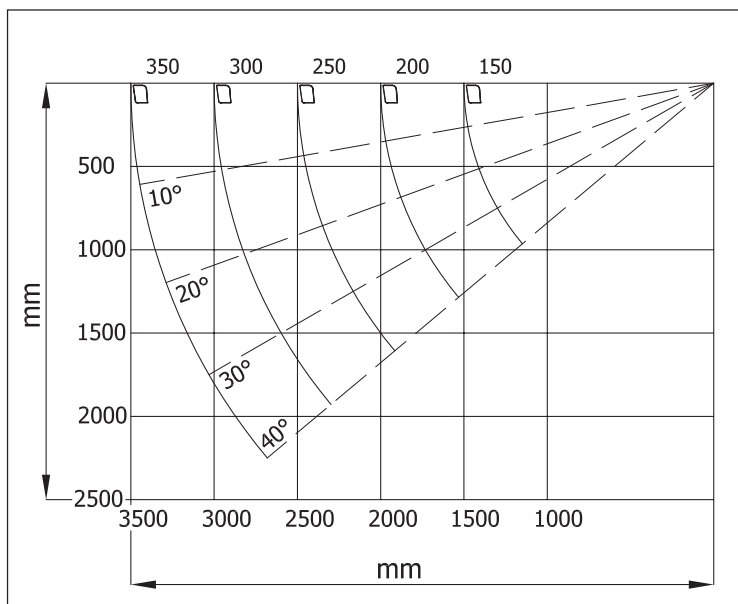


MOUNTING HEIGHT:

The awning can produce crushing forces and shear stresses, for instance between the drop profile and the casing, on the articulated arms and at the point where different profiles meet. To protect human safety, the mounting height must be at least 2.50m. If the situation requires a mounting height less than the stated minimum height, the awning must be operated exclusively with a switch mounted at a location from where the moving parts can be observed.

DETERMINATION OF THE MOUNTING HEIGHT FOR WALL-MOUNTED AWNINGS:

The mounting height depends on the extended length and inclination of the awning. Please refer to the drawing on the right for basic orientation. Always ensure that there is sufficient headroom.



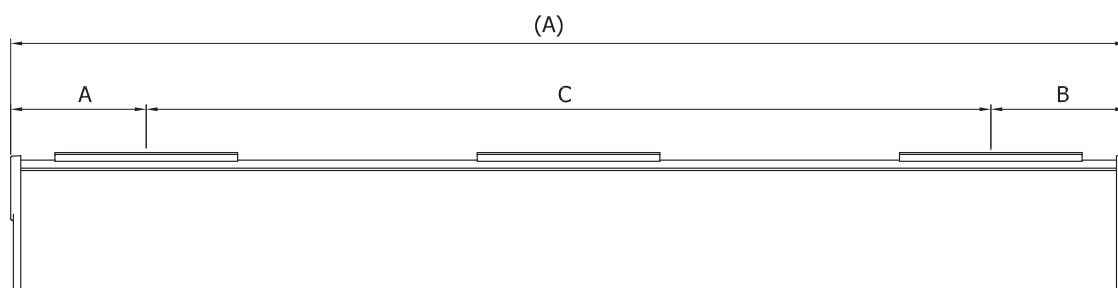
The awning is appropriate to a limited extent as a means of protection against rain. In any event, the minimum inclination for such applications must be 14°. The limitations of the use are defined in the relevant operating instructions.

POSITION OF THE BRACKETS:

On the back of the casing of the awning, there are stickers with the definition of the bracket positions. Mark the positional points on the base material. Try to find the ideal position for the bracket center.



Do not go beyond the limit areas of the bracket centers, this could lead to damages to or a malfunction of the awning.

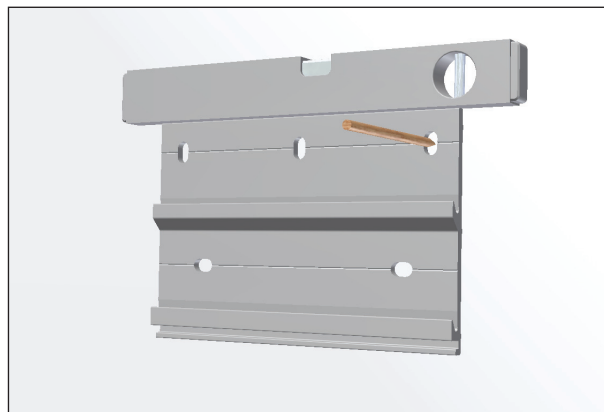


DRILLING HOLES FOR THE BRACKETS:

Transfer the drilling outlines of the brackets to the determined bracket positions.



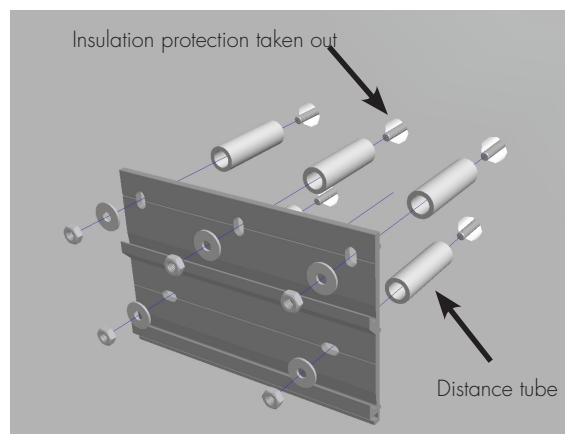
When mounting the awnings, select the appropriate drill bit for the respective base material and mounting method.



2.5 MOUNTING TECHNIQUE

MOUNTING ON THERMALLY INSULATED FACADES:

Insulating plaster and full multi-layer thermal insulation are not pressure stable. Therefore, it is necessary to use backing for the entire surface, or at least distancers for the area around the screws. The accompanying figure explains a possible variant:



BRACKET MOUNTING:

Loosely fasten all brackets and achieve true alignment. Even out irregularities of the base by using suitable spacers. Then tighten all screws and check that brackets are firmly attached.



Reduce the projection of installation bolts to a minimum (max. 11 mm), otherwise it is impossible to hook in the awning.

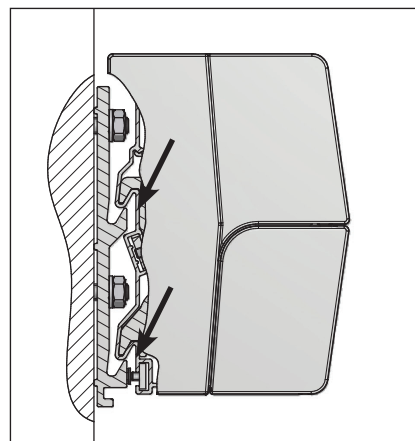
2.6 FITTING THE AWNING



Ensure that sufficient personnel is available to lift the awning. The awning weighs up to 75kg; the weights are defined on the packaging.

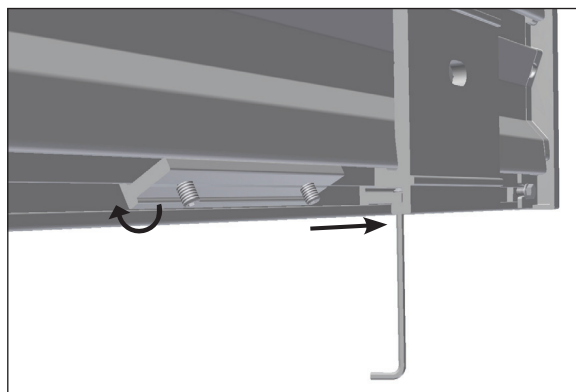
Hook awning with the base profile into the bracket profile. Ensure that the position of the brackets coincides with the marked positions of the central supports.

If the assy is hooked in correctly and if the length of the installation bolts is right, the awning will stay in place, but it must still be secured.



Insert the bracket fasteners in the appropriate channel of the base profile, move to the right position and tighten the threaded pins with SW3 Allen key.

This secures the awning and prevents it from falling down.



3. INITIAL OPERATION



Before the initial operation of the awning, remove all objects (e.g. ladders, tools etc.) from the full travel range (in/out) of the awning and from underneath the awning. During the trial operation, ensure that nobody is in this area – there is a risk of injury in case of a malfunction.

3.1 WITH MOTOR DRIVE



For trial operation, always use the test cable (no automatic control units etc.). In addition, the operator must be able to see the awning.

If the test cable has not yet been connected, connect to the cable of the driving gear.



The end position switches of the motors are factory set. However, readjustments on location according to the "motor adjustment manual" are possible.

Fully extend awning and check switch-off point. In fully extended condition, the awning is optimally stretched. When winding up the awning for the first time, check that the covering is wound up properly and that the articulated arms fold correctly (parallel).

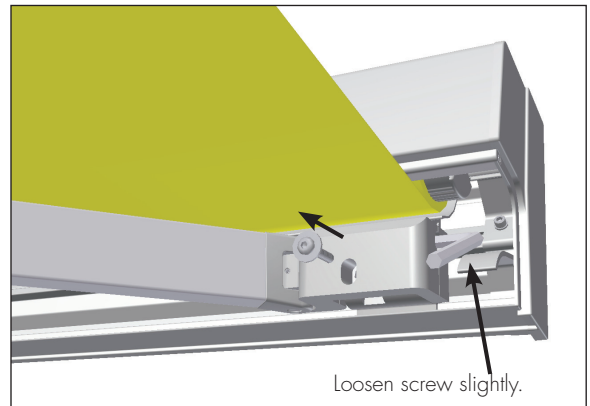


Electrical installation work and connections to the mains must be carried out exclusively by a licensed electrical company. Electrical installation work and connections to the mains must be carried out exclusively by a licensed electrical company.

3.2 SETTING THE INCLINATION OF THE AWNING

ADJUSTMENT OF THE INCLINATION OF THE AWNING:

- Half extend the awning.
- Remove securing screw with Allen key 5.
- Loosen the side screw with Allen key 10.
- Lift arm slightly to relieve the load on the pivoting part and adjust the inclination by turning the screw in the pivoting part with SW 10 Allen key.



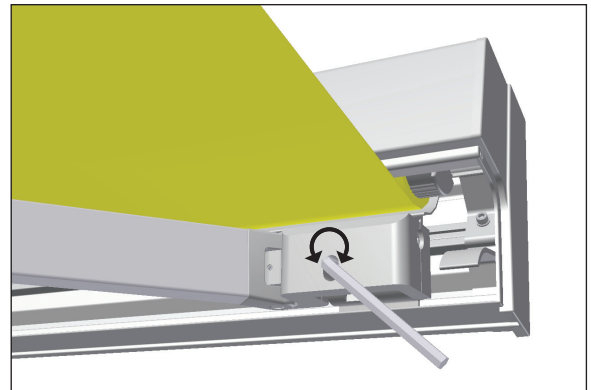
i TO LOWER THE AWNING, TURN CLOCKWISE
TO RAISE THE AWNING, TURN COUNTER-CLOCKWISE

In the event of a significant change of the inclination setting (more than 10°), the arms must be adjusted alternately.



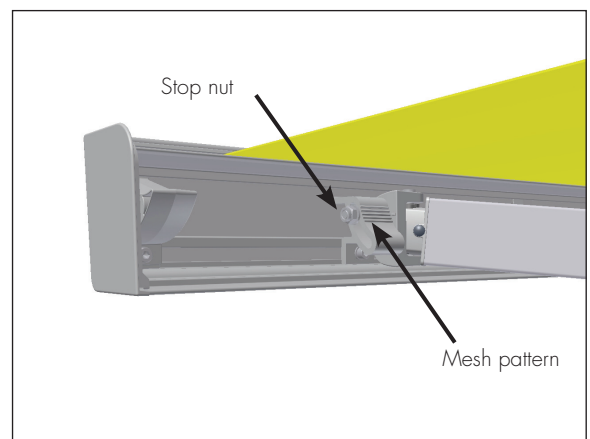
Ensure that the pivoting part rests with its surface on the head of the countersunk screw.

- Following the adjustment of the inclination, firmly tighten the side screw and insert the securing screw with the washer, then also tighten firmly.



ADJUSTMENT OF THE CASSETTE DROP PROFILE:

- Extend the awning by approximately 40 to 50cm.
- Loosen stop nuts at the side of the drop profile holders with SW 13 spanner.
- Move drop profile with one hand into the desired inclination position.
- Push drop profile to the desired position and fix by tightening the stop nut.
- Make the same adjustment on the other side. Use the mesh pattern on the drop bar holder for easier orientation.
- Visually verify whether the side parts of the housing and the drop profile are in alignment. If necessary, correct drop profile again.
- Wind up awning and check that the drop profile closes exactly.



3.3 COMPLETING THE INSTALLATION / TRANSFER TO THE CLIENT

- Clear site. Remove packaging materials from site and dispose according to local regulations.
- Hand over to client all instructions concerning the installation and operation of the awning as well as the instructions for the electrical connections of control units and switches.



Give client comprehensive instructions about the operation of the awning. Failure to observe the instructions and incorrect operation can result in damages to the awning and accidents.
Notify client of the wind resistance class of the awning.

4. DISMOUNTING



Ensure that the area around the awning is free of unauthorized personnel. Shut off power to motor-driven awnings and take steps to ensure they cannot be switched on again.

- Dismount the awning exclusively in retracted condition.
- Dismounting of the awning is the reverse of the mounting procedure.

5. TROUBLESHOOTING

TYPE OF FAULT	CAUSE	REMEDY
Motor drive does not work	No power	Check connection (specialized company)
	Motor drive not correctly connected	Check connection (specialized company)
	Thermal protection of the motor drive activated	Wait for 15-20 mins, then operate again
	Remote control batteries empty	Check light signal on sending unit, replace batteries
	Higher-level control unit prevents manual operation	Wait until higher-level signal is not activated any more.
System does not extend or retract fully	End positions of the motor drive changed, or incorrect end position setting	Reset or re-program end positions (see motor adjustment manual)
Awning makes grating noises	Insufficient lubrication	Spray arm articulation bearing with a suitable lubricant (e.g. Teflon spray)
Drop profile does not close exactly	Adjustment of the drop profile inaccurate	Adjust drop profile according to Item 3.2
System does not close on one side	Fabric unevenly sewn	Line covering on this side by applying fabric tape to cloth roller