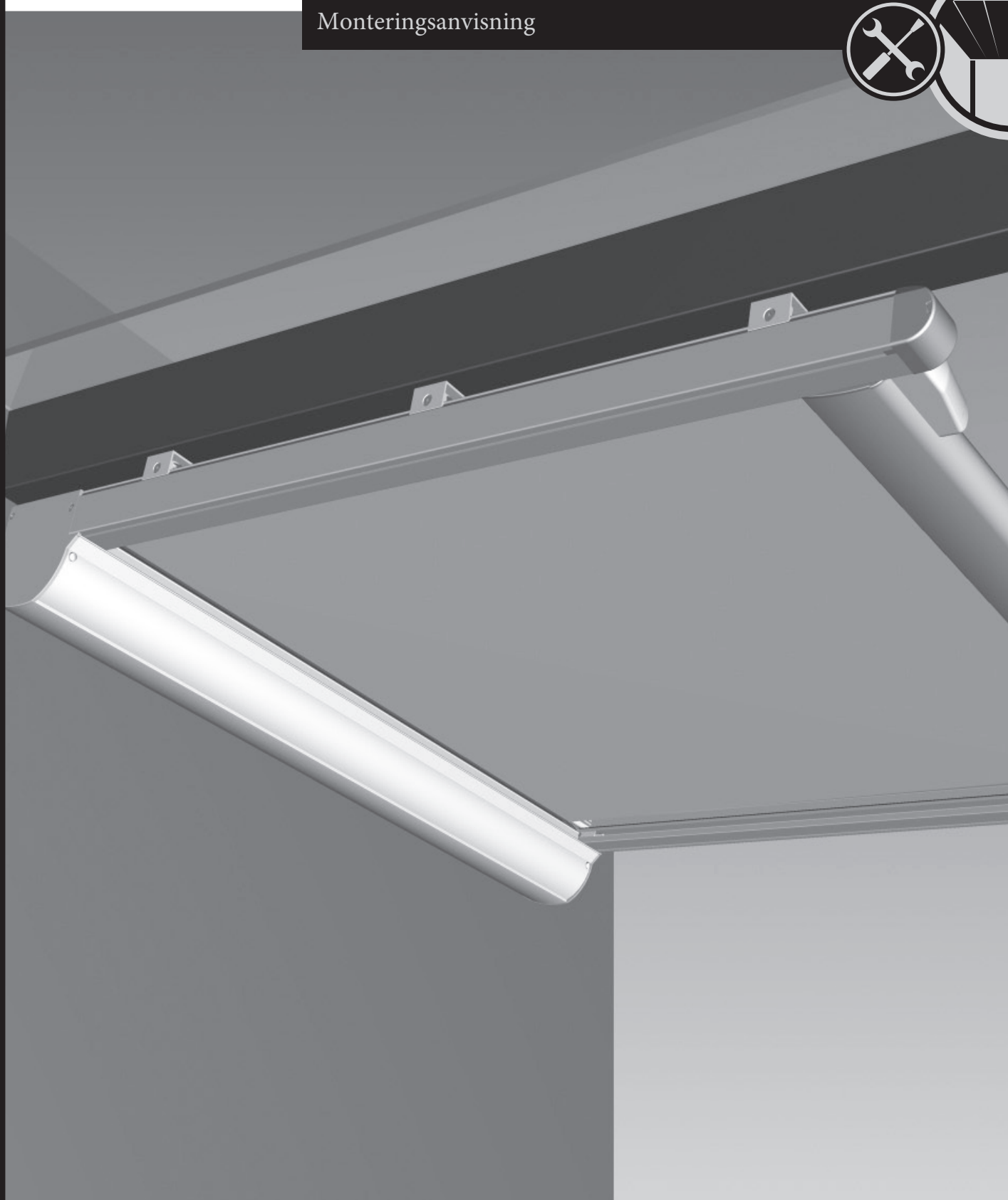
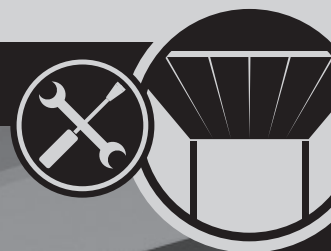


XLIGHT

Monteringsanvisning





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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. THE FOLLOWING SYMBOLS ARE USED TO ALERT THE READER/USER OF THE INSTRUCTIONS.



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.

1.2 GENERAL SAFETY INFORMATION



The WO&WO XLIGHT underglass 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.



These installation instructions are intended for use by qualified fitters. Such fitters may be assumed to possess substantial practical experience in the following:

- Workplace safety and accident prevention
- Working with ladders and scaffolding
- Handling and transporting long, heavy parts
- Working with tools and machines



Securing elements must be suitable for the type and constitution of the installation subsurface. The quantity and type of the fixing bolts and the tightening torque must be selected in keeping with the installation subsurface.

XLIGHT – UNDERGLASS AWNING

INSTALLATION INSTRUCTIONS

1.2 GENERAL SAFETY INFORMATION



Sunlight and/or operation of the motor can cause the surfaces of the parts to heat up and cause burns.



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.



Systems must not be used beyond the wind resistance class specified by the manufacturer (section 2.3). If the maximum permissible wind limit is exceeded, the system must be retracted!



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

- Measuring tape 10 m
- Cordless screwdriver
- Drilling machine
- Drill bits, suitable for the drilling substrate and the mounting pieces
- Ratchet (catrake) with extension, SW 13 socket
- SW 4, SW 5 and SW 6 Allen keys
- SW 13 open fork or ring spanner
- Slot screwdriver
- Phillips screwdriver
- 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. The location of the drive side is indicated on the packaging.



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.



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

2.3 WIND RESISTANCE CLASSES

DEFINITION:

Depending on the quality of the product DIN EN 13561, table 4 and item 4.4. defines different wind resistance classes for vertical blinds. The higher the class, the better the quality of the product.

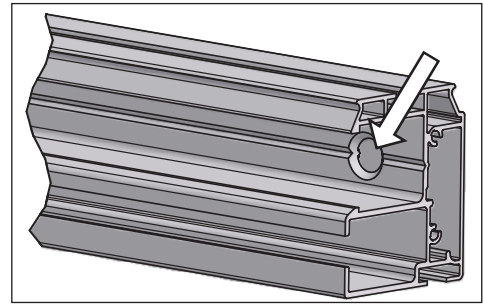
WIND CLASS	DESCRIPTION	WIND FORCE	WIND SPEED
Class 0	undefined, product not tested or unsuitable		
Class 1	light breeze	4 (according to Beaufort wind scale)	20 - 27 km/h
Class 2	fresh breeze	5 (according to Beaufort wind scale)	28 - 37 km/h
Class 3	strong breeze	6 (according to Beaufort wind scale)	38 - 48 km/h

Classification XLIGHT: Wind resistance class **2**

XLIGHT – UNDERGLASS AWNING

INSTALLATION INSTRUCTIONS

At one end, the guide rails have a countersink for the peg on the inner side. This end of the rail must always be orientated towards the housing.



2.5.1 CEILING INSTALLATION

Clip the guide rails into the brackets, arrange them so that they are parallel and fix to at least one bracket.

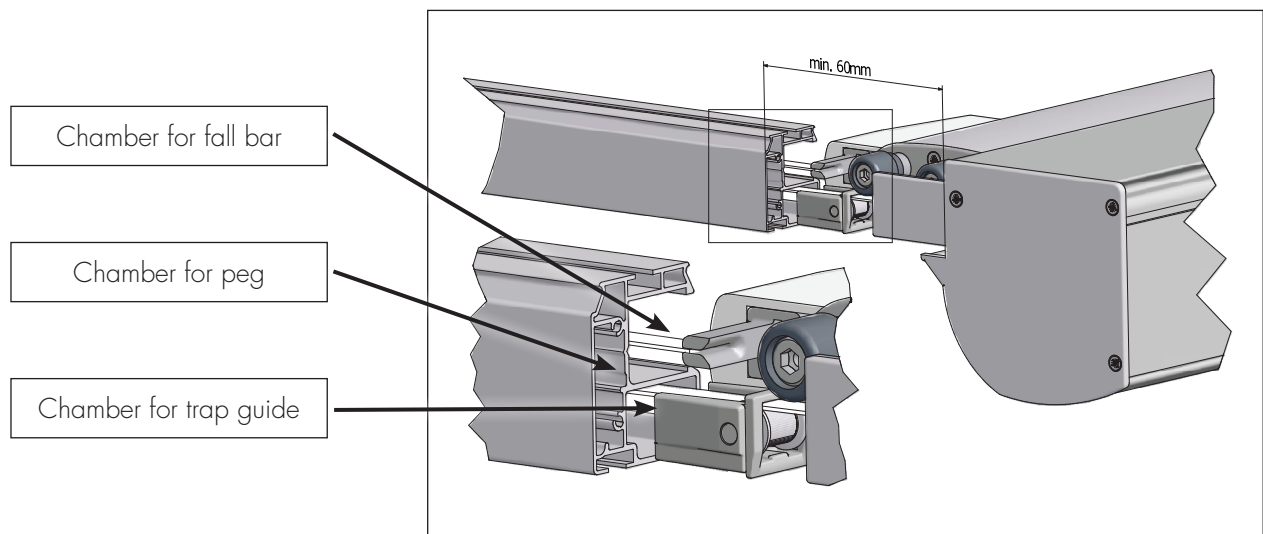


Ensure that sufficient personnel is available to lift the awning. The awning weighs up to 70 kg; the weights are defined on the packaging.

Assemble case:

Lift the case. First place the cage with the guide roller into the guide rail.

Then insert the fall bar with the guide rollers into the corresponding slot in the guide rail and insert the case with the peg into the guide rails. Ensure that the pulling strap does not become stuck and runs cleanly over the guide roller.



Measure the alignment and diagonal arrangement of the installation and tighten the locking screws on the brackets.

Unwind the pulling strap from the end cover of the guide rail and arrange it so that it is not twisted.

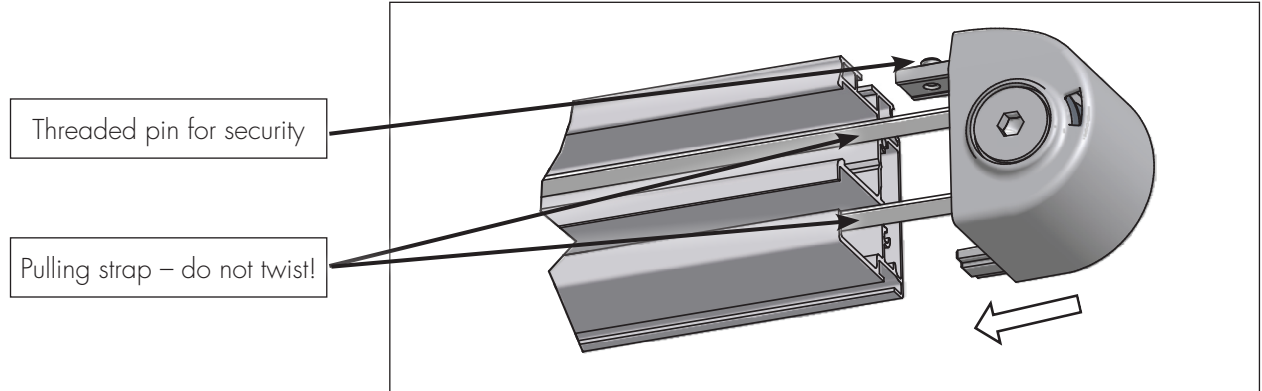
Remove the four strap attachment clips (two for each strap).



If the attachment clips are not removed, the installation may be damaged during operation!

This symbol indicates a reference to an imminent or possibly imminent danger that may result in injury, serious injury or death if not avoided.

XLIGHT – UNDERGLASS AWNING INSTALLATION INSTRUCTIONS



Ensure that the pulling strap is not twisted, runs in the corresponding channels in the guide rail without sticking and runs smoothly over the guide roller. A twisted strap may cause excessive shifting of the guide rollers during operation and thereby damage them and/or be damaged, or separate from the guide rollers.

Hand-tighten the threaded pins in the end cover in order to secure the end cover.

Continue with point 3 Initial operation.

2.5.2 CEILING INSTALLATION ON THE FLOOR

Insert the cages with the guide rollers into the guide rails. Insert the fall bar with the guide rollers into the corresponding channel in the guide rail and place the rail on the pegs in the housing.

Unwind pulling strap from the end cover of the guide rail and ensure that it is not twisted.

Remove the four strap attachment clips (two for each strap).



If the attachment clips are not removed, the installation may be damaged during operation!

Pull the fall bar out using the pull cord on the tensioner and replace the guide rail end covers into the guide rails.



Ensure that the pulling strap is not twisted, runs in the corresponding channels in the guide rail without sticking and runs smoothly over the guide roller. A twisted strap may cause excessive shifting of the guide rollers during operation and thereby damage them and/or be damaged, or separate from the guide rollers.

See point 2.5.1



Ensure that sufficient personnel is available to lift the awning. The awning weighs up to 70 kg; the weights are defined on the packaging.

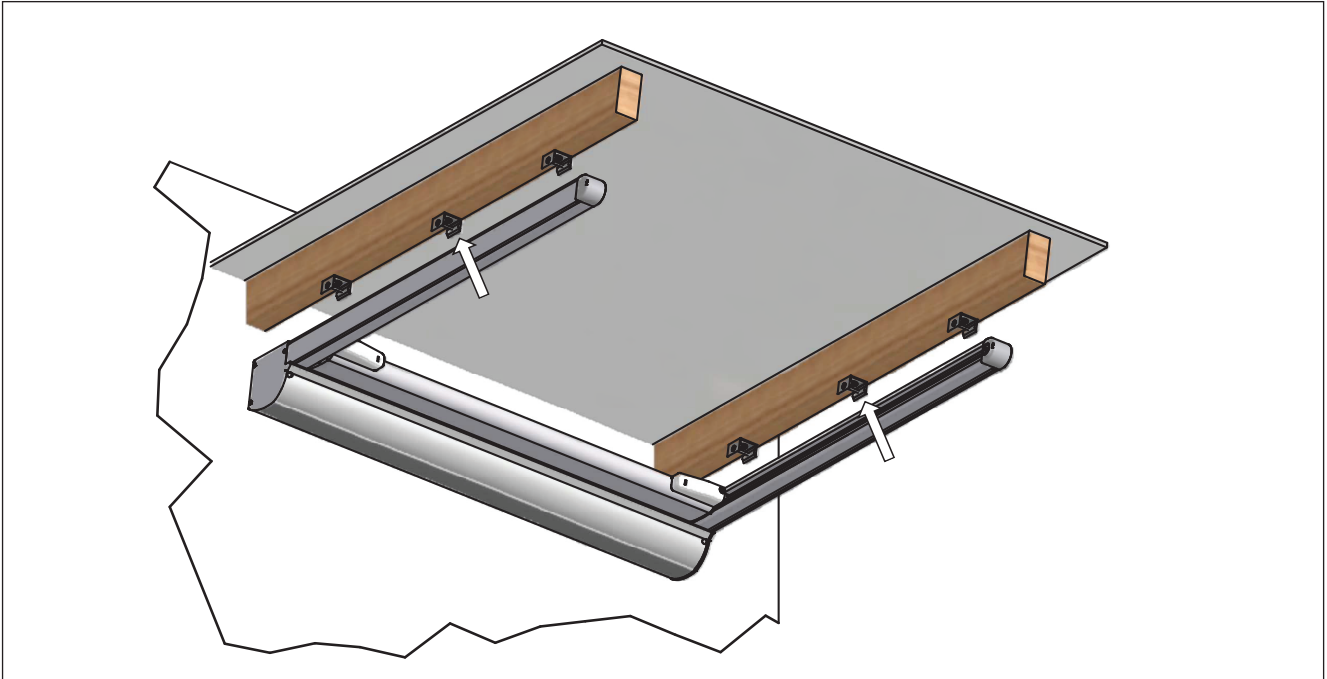


When lifting the system, take care not to move the guide rails back and forth excessively because this may damage the pegs!

Lift the pre-assembled installation and press the guide rails into the clip brackets. When the rails have clicked into the brackets, the installation will support itself.

Adjust the installation diagonally. Firmly tighten the securing screws on the brackets.

XLIGHT – UNDERGLASS AWNING INSTALLATION INSTRUCTIONS



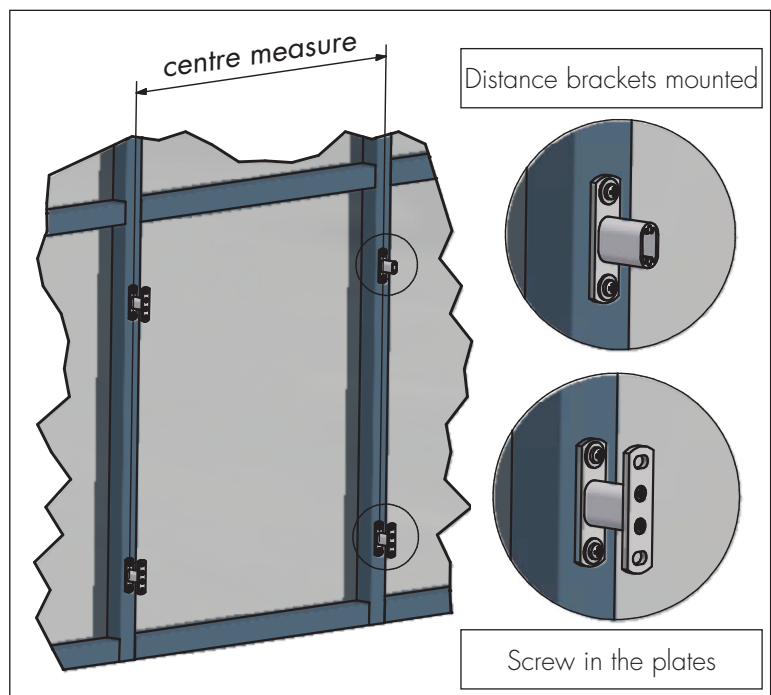
Continue with point 3 Initial operation.

2.6. FACADE INSTALLATION WITH DISTANCE BRACKETS

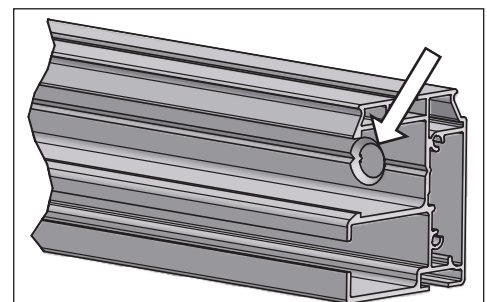
Fit distance brackets with fixing elements suitable for the subsurface;

Unit spacing = system width – 43mm

Screw the plates to the distance brackets.



At one end, the guide rails have a countersink for the peg on the inner side. This end of the rail must always be orientated towards the housing.

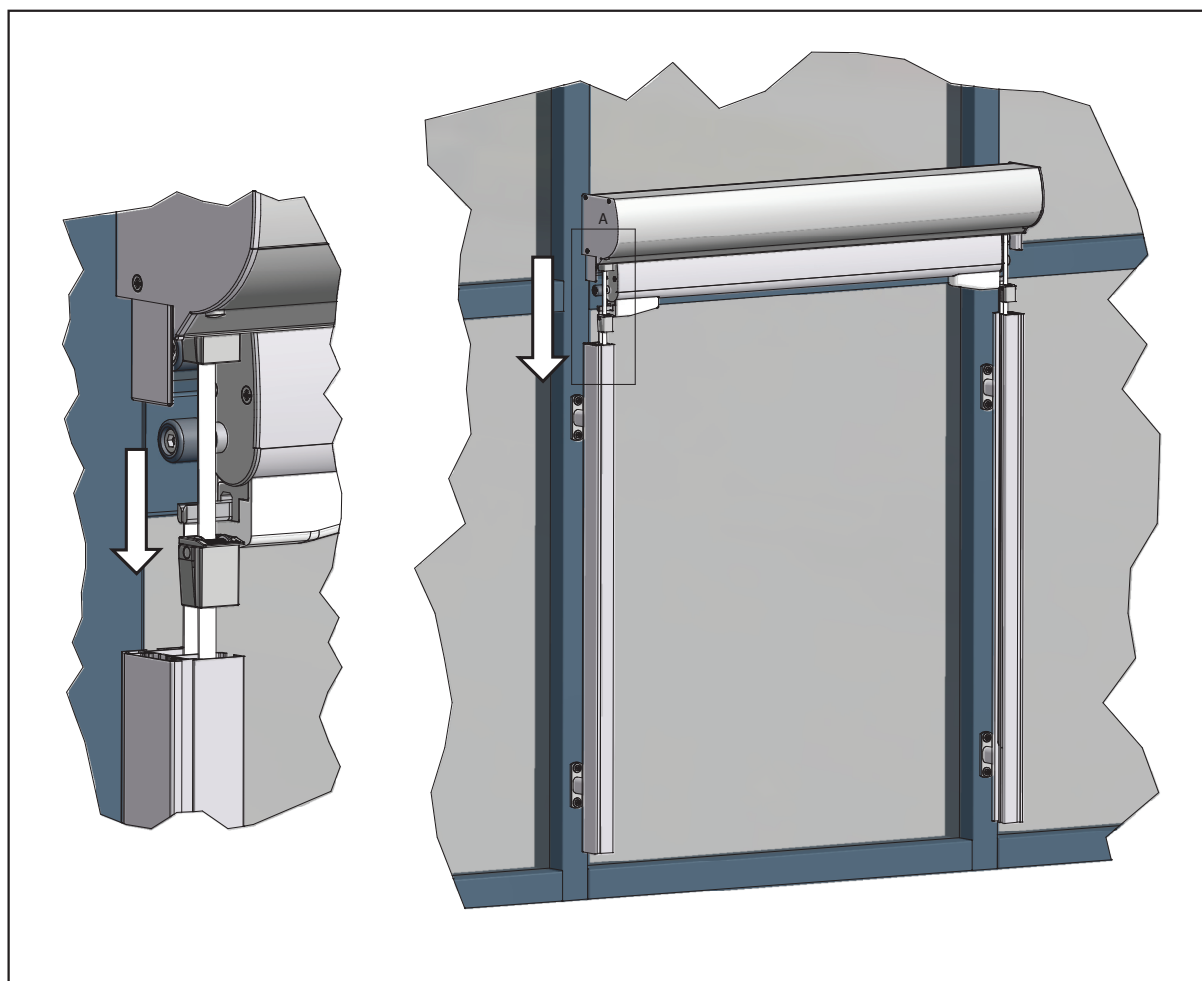


2.6.1 FACADE INSTALLATION

Slide clamping plates into the guide rail according to the number of distance brackets per rail.
Insert rails onto the distance brackets and fix them slightly. Ensure that the rails are mounted at the same height so as to be able to equally insert the pegs of the housing.

i Ensure that sufficient personnel is available to lift the awning. The awning weighs up to 70 kg; the weights are defined on the packaging.

Lift the case, insert the guide rollers with the cage into the guide rails, then insert the fall bar with the guide rollers into the corresponding channel in the guide rail and insert the case with the pegs into the guide rail. (see 2.5.1)



Unwind pulling strap from the end cover of the guide rail and ensure that it is not twisted.
Remove the four strap attachment clips (two for each strap).

! If the attachment clips are not removed, the installation may be damaged during operation!

Pull the fall bar out using the pull cord on the tensioner and replace the guide rail end covers into the guide rails. (see 2.5.1)

! Ensure that the pulling strap is not twisted, runs in the corresponding channels in the guide rail without sticking and runs smoothly over the guide roller. A twisted strap may cause excessive shifting of the guide rollers during operation and thereby damage them and/or be damaged, or separate from the guide rollers.

Continue with point 3 Initial operation.

XLIGHT – UNDERGLASS AWNING INSTALLATION INSTRUCTIONS

2.6.2 FACADE INSTALLATION WITH WITH PRELIMINARY FLOOR ASSEMBLY

Slide clamping plates into the guide rail according to the number of distance brackets per rail.

Insert the cages with the guide rollers into the guide rails, then insert the fall bar with the guide rollers into the corresponding channel in the guide rail and insert the case with the pegs into the guide rail. (see 2.5.1)

Unwind pulling strap from the end cover of the guide rail and ensure that it is not twisted.

Remove the four strap attachment clips (two for each strap).



If the attachment clips are not removed, the installation may be damaged during operation!

Hold the installation firmly, pull the fall bar out using the pull cord on the tensioner and replace the guide rail end covers into the guide rails. (see 2.5.1)



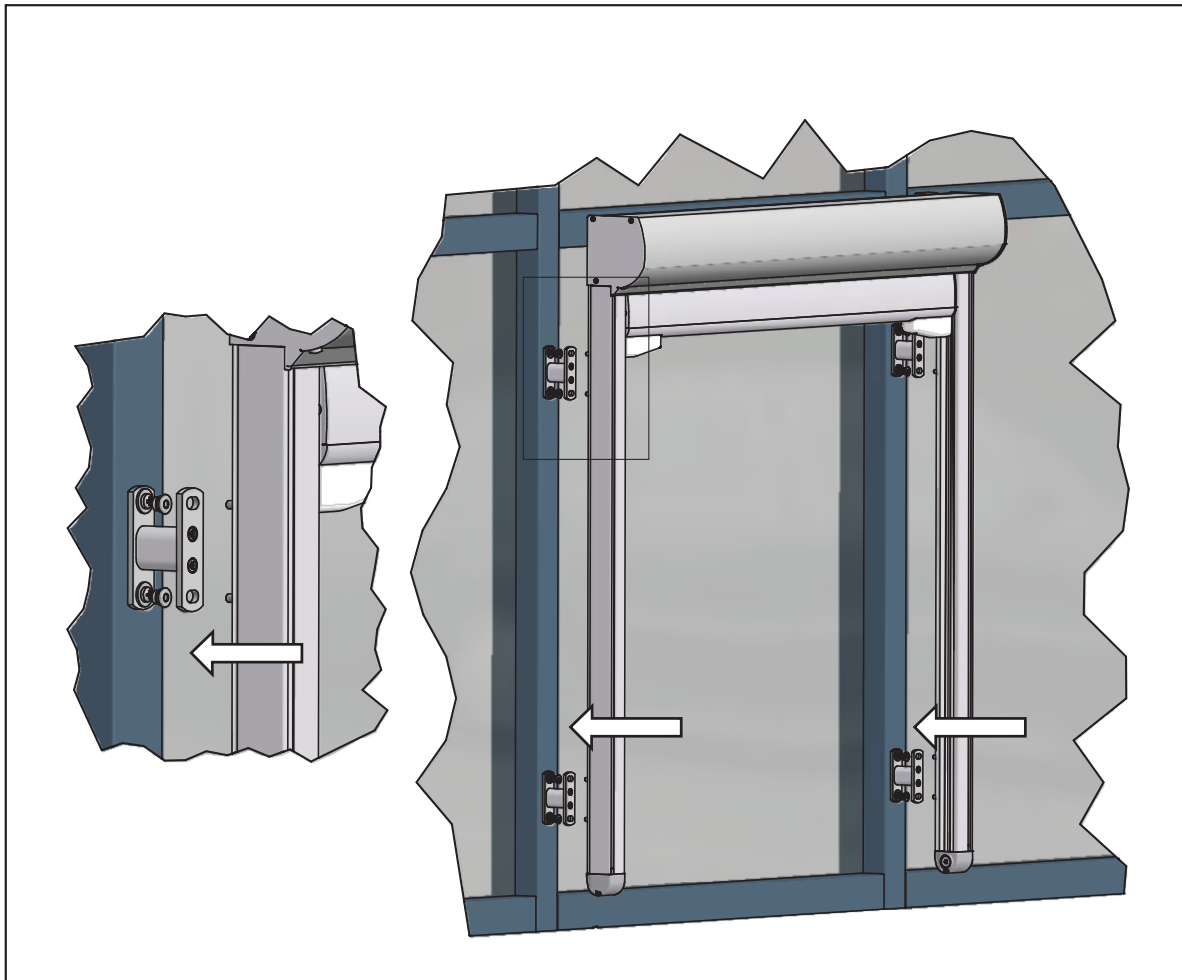
Ensure that the pulling strap is not twisted, runs in the corresponding channels in the guide rail without sticking and runs smoothly over the guide roller. A twisted strap may cause excessive shifting of the guide rollers during operation and thereby damage them and/or be damaged, or separate from the guide rollers.



Ensure that sufficient personnel is available to lift the awning. The awning weighs up to 70 kg; the weights are defined on the packaging.



When lifting the system, take care not to move the guide rails back and forth excessively because this may damage the pegs!



Fit the system with the clamping plates in place, insert threaded bolts through the plates on the distance brackets and secure the guide rails with SW 10 nuts.

Adjust the installation vertically, in its alignment and diagonal orientation and tighten the nuts with SW 10.

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.



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



The end position switches of the motors and the fall bar alignment are factory set. However, readjustments on location according to annex A (Adjustment of the driving gear end position) resp. annex B (Alignment of the fall bar) are possible.



When attaching the fall bars to the end covers of the guide rails, the cage for the guide roller may be pressed out of the rail by the case! Therefore, always ensure that there is sufficient play when adjusting the final lower position.

If the test cable has not yet been connected, connect to the drive cable.

Extend the awning so that the security screws for the case can be screwed into the guide rail. When the security screws have been tightened, completely extend the awning and examine the fall bar alignment and shut-off point (fall bar may not be in contact with the end covers on the outside).

When retracted, the pulling straps must remain under tension, they may not have any slack.



Electrical installation work and connection to the mains may only be carried out by certified electrical specialists.



Following entry into operation, screw pegs of the case with the guide rails.

3.1 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.



For connected installations, the driven installation (without motor) must be loosened before connection or the preliminary tension must be secured. To do so slightly press the fall bar in the direction of extension by hand and simultaneously insert the transport lock (3) between the channel for the fabric and a seam in the disc.

XLIGHT – UNDERGLASS AWNING

INSTALLATION INSTRUCTIONS

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 min., 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 Drive Instruction Manual)
System does not close on one side	Thickness of the tapes differs	In retracted condition, apply textile tape backing to the pulley on the side on which the system does not retract sufficiently. Extend system and achieve parallel fall bar alignment (Annex B)
	Not the same number of windings on the pulley	Check number of strap windings on the pulley and equalize.
	Fall bar parallelism changed or incorrectly adjusted.	Reset fall bar parallelism (see Annex B)
Awning fabric sags unevenly	Fall bar parallelism changed or incorrectly adjusted.	Reset fall bar parallelism (see Annex B)
	Rail parallelism or rectangularity changed	Reset rail parallelism or rectangularity (see item 2.6.)
When operated, system moves by jerks and jolts or generates indefinable noises	Foreign bodies or lots of dirt in the channels of the guiding rails	Clean guiding rails and spray lubricant on the rollers of the fall bar

A. ADJUSTMENT OF THE DRIVING GEAR END POSITION

For adjustments of the driving gear, please refer to the "Driving gear adjustment" sheet.



The XLIGHT shading system requires the adjustment of both driving gear end positions. A failure to set the driving gear end positions can lead to an impaired function of or damages to the system. The use of a driving gear with electronic torque-activated cut-off mechanism is not permissible.

B. ALIGNMENT OF THE FALL BAR

Measure the distance between the fall bar and the rail end on both sides.

The correction is made on the side that extends further.

Remove countersunk screw (1) with SW 4mm Allen key and take off plastic cover (2). Loosen counternut (3) with SW 13 mm ring spanner.

Get hold of the end of the pulling strap (5) with your hand or a tool and do not let go.

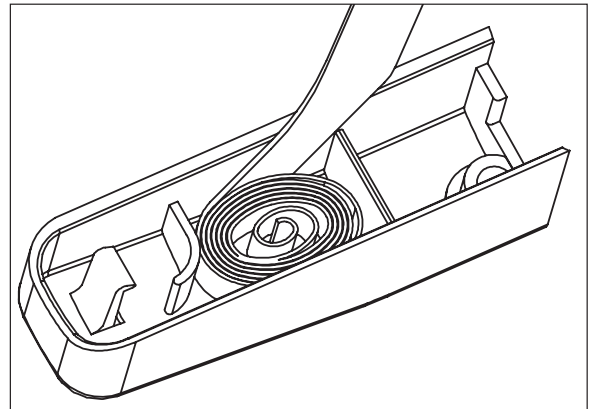
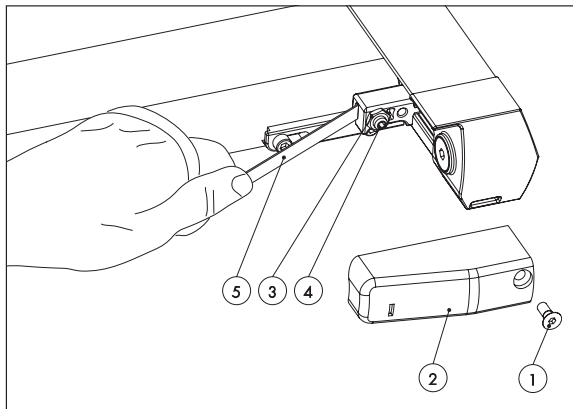
Loosen the threaded pin (4) with SW 4mm Allen key.

Now give pulling strap enough rope so that the fall bar moves to the correct position.

Then slightly tighten threaded pin (4) and lock with nut (3).

Wind up protruding tape and stow away in the cover. Fit cover and fasten with countersunk screw.

If the fall bar is parallel, the fabric tension should be roughly the same on either side.



WWW.WOUNDWO.COM

WO&WO Sonnenlichtdesign GmbH & Co KG

Hafnerstraße 193, 8054 Graz, AUSTRIA

office@woundwo.at

Austria

Tel +43 (0)316 2807 - 0

Fax +43 (0)316 2807 - 8100

Germany

Tel +49 (0)5684 9232 - 0