markilux Awnings Handover declaration

To be passed on to the users of folding-arm awnings

The European standard DIN EN 13561 establishes the requirements for the construction and fastening of awnings. The construction of this markilux awning fulfills the requirements of the Wind Resistance Class 2 specified in the CE mark of conformity. The wind resistance class describes the wind speed, at which an awning may be used. If used above the approved wind speed, considerable dangers can occur in rain and in snow, the awning can be destroyed or collapse. Which wind resistance class the installation achieves, critically depends on the type and the number of fastening materials as well as on the existing fastening background.

The awning may only be used up to the wind resistance class declared by the installation firm. This can differ from the wind resistance class specified above in the CE-mark of conformity.

In full knowledge of the local conditions and after completed installation, the installation firm declares to the user, whether the wind resistance class specified by markilux has been achieved in the installed state and documents the actual wind resistance class achieved.

Automatic controllers are to be adjusted to the declared wind resistance class.

Wind resistance class 0	Wind resistance class 1	Wind resistance class 2	Wind resistance class 3	
The Wind Resistance Class 0 represents either a performance not required or not measured or a product, which does not fulfill the requirements of class 1.	The awning may remain extended up to maximum Wind Force 4.	The awning may remain extended up to maximum Wind Force 5.	At Wind Force 6 the awning must be retracted!	
	Definition according to Beaufort: <u>Moderate breeze, moderate wind</u> Wind moves branches and thinner boughs, raises dust and loose paper.	Definition according to Beaufort: <u>Fresh breeze, fresh wind</u> Small deciduous trees begin to sway, white foam caps form at sea.	Definition according to Beaufort: <u>Strong wind</u> Heavy boughs sway, umbrellas are difficult to hold, telephone lines whistle in the wind.	
The awning may not be used during wind.	Speed 20-27 km/h = 5.5-7.4 m/s	Speed 28-37 km/h = 7.5-10.4 m/s	Speed 38-48 km/h = 10.5-13.4 m/s	

Source: German Meteorological Service (DWD) – Offenbach, Wind Forces in Beaufort

The user has been properly instructed in the operation of the awning:				yes	no	
The user has been handed	the	following documentation:				
Operating instructions				yes	no	
 Installation and setting instructions 				yes	no	
		of the motor, switch and controller manuf	actu	rers, if ava	ilable	
The awning may be used u	Inde	er the following conditions:				_
Wind:	Х	permitted up to Wind Resistance Class = Wind force				
Rain:		permitted with awning extended completely				
		not permitted at a pitch angle below 25% = 14°, measured from the horizontal				
Danger of frost and snow:	Χ	not permitted				

0800 328 6250

Date:	_Signature of installation engineer:
-------	--------------------------------------

Signature of user*:__



* Confirmation with the signature, of having received a duplicate of the handover declaration!

06/04/09

CE

markilux

Schmitz-Werke GmbH & Co.

KG

Hansestraße 87

D-48282 Emsdetten

DIN EN 13561

Awnings for use on the

outside of buildings

Wind resistance class 2



markilux Awnings Handover declaration

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		of the motor, switch and controller manuf	actu	rers, if ava	ilable	
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Wind:	Х	permitted up to Wind Resistance Class = Wind force				
Rain:		permitted with awning extended completely				
		not permitted at a pitch angle below 25% = 14°, measured from the horizontal				
Danger of frost and snow:	Χ	not permitted				

0800 328 6250

Date:	_Signature of installation engineer:
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Hansestraße 87

D-48282 Emsdetten

DIN EN 13561

Awnings for use on the

outside of buildings

Wind resistance class 2



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markilux Awnings

Important Information



Contents:

- 1. Who is allowed to fit markilux Awnings?
- 2. Before beginning with the installation, it is to be checked,...
- 3. Reading and passing on the instructions
- 4. Working at greater heights
- 5. Wind Resistance Class
- 6. Partly assembled awnings
- 7. Partly assembled awnings
- 8. Uncontrolled Operation
- 9. Proper intended use
- 10. Crush and Shear Zones

1. Who is allowed to fit markilux Awnings?

The markilux fitting instructions are intended for qualified fitters, who have experienced knowledge in the following fields:

- Work safety, operating safety and regulations for the prevention of accidents
- Handling ladders and scaffolding
- Handling and transport of long, heavy components
- Handling tools and machines
- Attaching fastening materials
- Assessment of the construction material
- Commissioning and operation of the product

If one of these qualifications is lacking, a specialist installation firm must be commissioned.

A Electrical work: Electrical installations must be carried by a qualified electrician according to VDE 0100. The installation instructions enclosed with the electrical devices supplied are to be observed.

It is recommended that fitting is performed with at least two persons, for larger awnings with three.

2. Before beginning with the installation, it is to be checked,...

- ... whether the fitting fixtures supplied correspond in type and number with the order ,
- ... whether the specifications made with the order concerning the fastening background correspond with the actual fastening background at hand (only for folding-arm awnings).

If divergences are determined herewith, which impair safety, then the fitting may not be carried out.

3. Reading and passing on the instructions



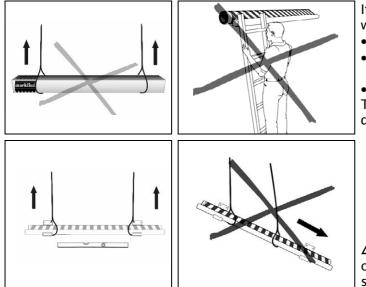


The safety and fitting instructions as well as the operating guides are to be read and observed!

The markilux operating guide, as well as the setting instructions of the motor, switch and controller manufacturers are to be handed over to the user with a **written** confirmation and fitted wind class (see handover declaration) He is to be comprehensively enlightened about the safety and usage information of the awning. With non-observance and maloperation, the awning can suffer damage and accidents can occur.



4. Working at greater heights



If the awning unit has to be hoisted to a higher area with the help of ropes, then the awning is

- to be removed from the packaging,
- to be connected with the lifting ropes in such a way, that it cannot fall out,
- to be pulled up evenly in a horizontal position. The same also applies for the dismantling of the awning.

A When working at greater heights, there is a risk of falling. Suitable climbing aids and appropriate fall safety devices are to be utilized.

5. Wind Resistance Class

CC markilux Schmitz-Werke GmbH & Co. KG Hansestraße 87 D-48282 Emsdetten

DIN EN 13561 Awnings for use on the outside of buildings

Wind resistance class 2

markilux folding-arm awning, markilux 710/810, 720/820, 725/825, 750/850, 730/830, 791/891, 740/840, 745/845, 893, 8500, 869 (size-dependent)

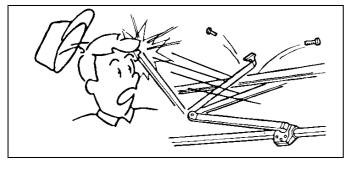
Wind resistance class 3 markilux 760/860,780/880 und 8000, 869 (size-dependent) The awning complies with the requirements of the wind resistance class specified in the CE-conformity symbol (see handover declaration). When fitted, it only complies with these requirements, if

- the awning has been fitted with the type and number of brackets recommended by the manufacturer,
- during fitting, the instructions of the fastenings manufacturer of the dowels used have been observed.

For folding-arm awnings:

• the awning has been fitted taking into account the dowel pull-out forces specified by the manufacturer.

6. Partly assembled awnings

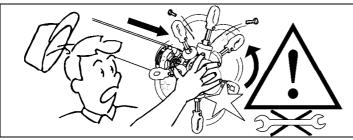


With awnings partly assembled at works – e.g. coupled folding-arm awnings without cover – those parts under spring tension (see illustration: example folding-arm awning) are to be secured against unintentional opening. These safety devices may only be removed after the installation is complete.

There is a high risk of injury from the marked awning parts under tension!



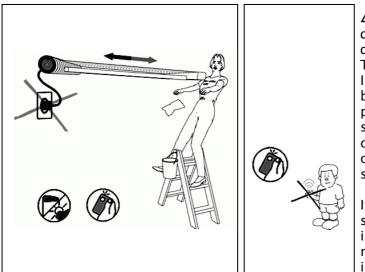
7. Partly assembled awnings



The servo transmission of folding-arm awnings (marked with a sticker) may not be dismantled, it is under high tension!

If the awning cover or the transmission is to be exchanged, beforehand please request the guide "What to do when... the servo drive needs to be dismantled?".

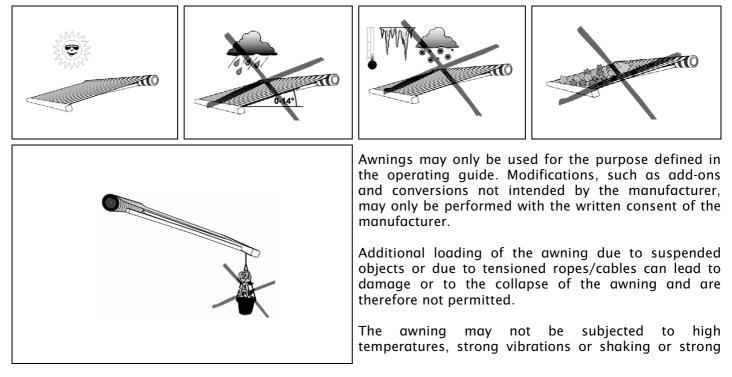
8. Uncontrolled Operation



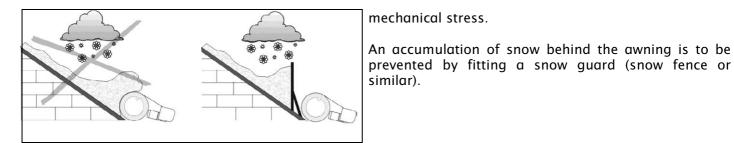
A When working in the range of travel of the awning (see illustration: example folding-arm awning), automatic control must be switched off. There is a risk of being crushed and falling down. In addition, it must be ensured, that the unit cannot be unintentionally operated manually. For this, the power supply is to be interrupted, e.g. switch off safety switches or disconnect the connector coupling on the motor. Likewise, with manual operation the operating crank must be disengaged and safely stored away.

If awnings are operated by several users, a priority switching interlocking device (controlled power interruption from outside) must be installed, which makes any extending and retracting of the awning impossible.

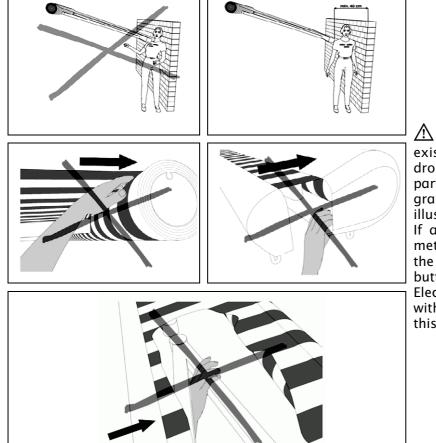
9. Proper intended use







10. Crush and Shear Zones



Depending on the type of awning, there exist crush and shear zones, e.g. between drop rod and cassette and between moving parts. Items of clothing or limbs can be grabbed by the unit and pulled in! (See illustration: example folding-arm awning.) If an awning is fitted at a height under 2.5 meters above accessible traffic routes, then the awning may only be actuated with a pushbutton switch with a view of the moving parts. Electrical controllers, radio-controlled drives with catch switches, stop switches etc. are in this case not permitted.



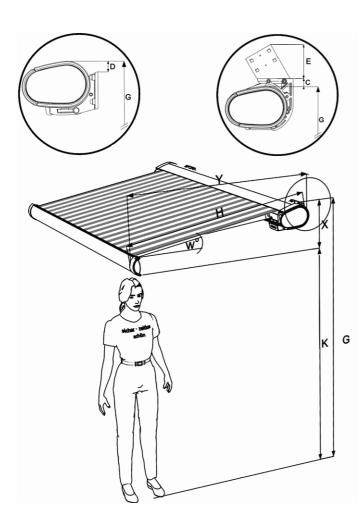
Folding-Arm Cassette Awning *markilux 6000*

Fitting Instructions

1. Fitting the mounting fixtures 1.1 Fitting height

H = Proje	ection
-----------	--------

- Y = Horizontal cover
- **X** = Value from Table 2
- K = Headroom = G X
- **G** = Fitting height
- W° = Pitch angle

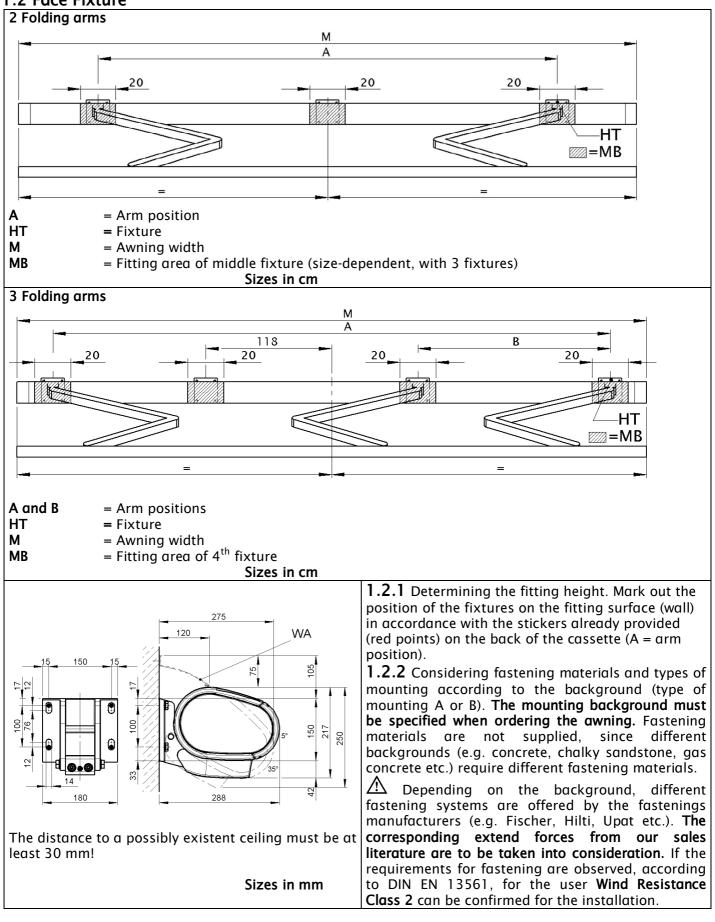


BS-Wall fixture 5 - 35°	0			BS-Wa 36 – 7	0°	ure	0	
D = 28 mm				D = 16 mm				
BS-Ceiling fixtu	ure			BS-Cei	ling f	ixture	<u>e</u>	
5 - 35° C = 30 mm				36 - 7 C = 30				
				$\mathbf{c} = \mathbf{s}\mathbf{c}$, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~		
BS-Eaves fixtur	re 5 – 3	5°		BS-Eav			5 - 35	5 °
E = 153 mm Table of fittir	na heir	ahts		E = 27			5° to	35°
	ig neig	JIIIS	utu	pitten	ung	0	5 10	55
Projecti	on i n							
cm		150	200	250	300	350	400	
W = 5°	×	26	28	30	32	34	36	
vv = 5	Y	148	198	_	298	348	398	
$W = 10^{\circ}$	х	36	43	50	57	74	81	
	Y	146	196	246	296	346	396	
W = 15°	Х	47	59	70	81	92	103	
	Y	144	193	242	291	340	389	
W = 20°	X	58	74	90	106	122	138	
	Y	141	189	-	285	333 146	381	
W = 25°	X Y	70 138	89 184	108 230	127 276	316	165 362	
W = 30°	X	80	103		149	180	205	
w = 30	Y	132	176		264	308	352	
W = 35°	X	89	116	143	170	197	224	
1 1 -	Y	126	168	210	252	294	336	



1

1.2 Face Fixture





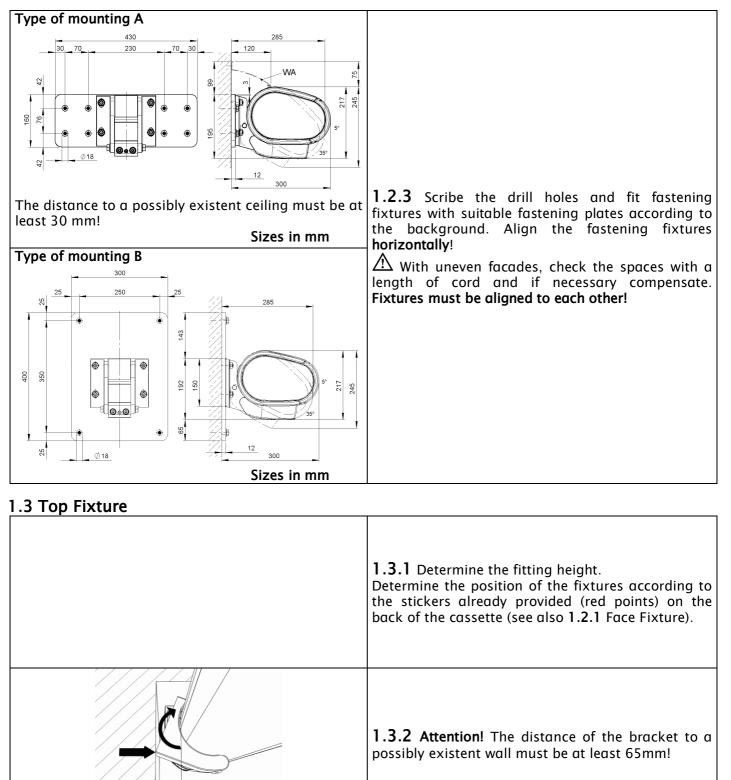
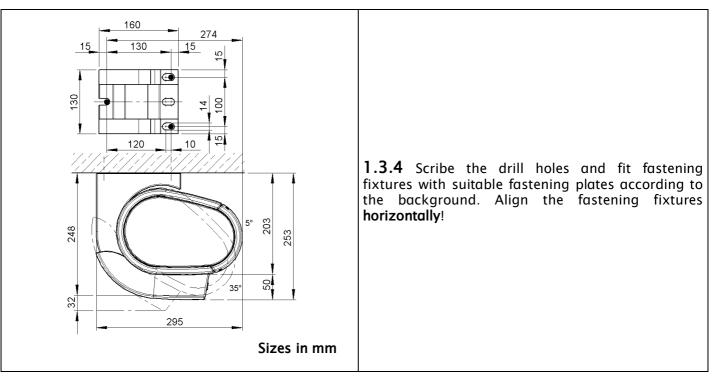
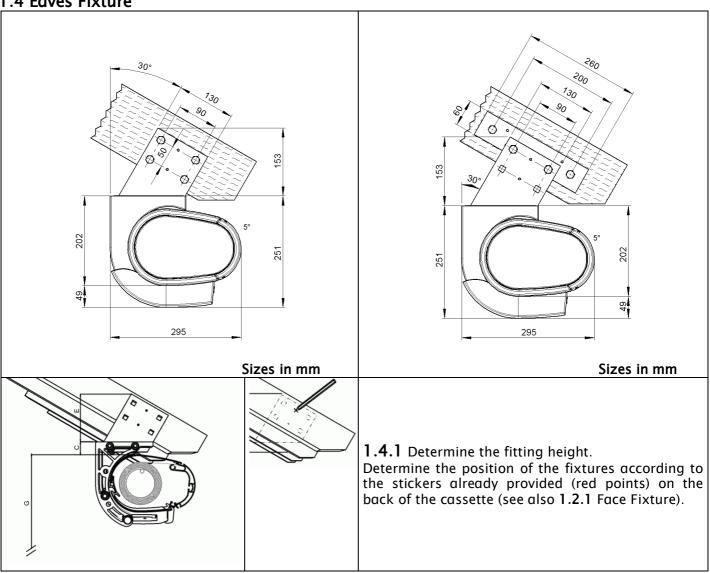


Image: Print 65.1.3.3 Concrete (B 25) is presumed as fastening
background. Fastening materials are not supplied,
different fastening systems are offered by
fastenings manufacturers (e.g. Fischer, Hilti, Upat
etc.).The corresponding extend forces from our sales
literature are to be taken into consideration. If the
requirements for fastening are observed, according
to DIN EN 13561, for the user Wind Resistance
Class 2 can be confirmed for the installation.





1.4 Eaves Fixture





	1.4.2 Fasten the eaves fixture with a nail. Align the fixture horizontally with a spirit level and fix with a second nail.
	1.4.3 Drill through the eaves at the screw holes. Screw fixture with suitable fastening materials. Align the fastening fixtures horizontally.

2. Hanging the awning (e.g. face fixture)

2.1 Place the awning on the wall fixtures, tilted slightly upwards.
2.2 Let the casing rest on the rear slot and the clamping plate.
2.3 Tightly screw the two outer socket head cap screws of the clamping plate (SW8).



3. Awning with motor drive

5. Awning with motor drive	
	3.1 The electrical connection for motor drive and/or controller connection is to be carried out as prescribed by the motor and controller manufacturer. Modifications, in particular concerning the motor, the controller and the connection lead require written authorization. The installation and setting guide is attached to the power supply cable of the motor. Instructions for other electrical components are to be found in the appropriate packaging.
	The integrated motor has a learned end position in the extending direction. This setting is carried out at works. If it needs to be altered or corrected, one must proceed according to the motor instructions (with radio: portable transmitter, without radio: setting cable)
Direction of rotation when retracting	
	ATTENTION: A coiling of the cover onto the roller from below can lead to the awning being damaged when retracted. When altering the end positions, definitely observe the direction of rotation.
	3.2 If required, the Hirschmann plug can be situated behind the side panel. (Not possible with the Studio variant!) Remove side panel inside (there are four small snaplocks at the edge, which grip behind the outer
	side panel). Unscrew the sheet metal screws with cross slot for securing the side panel outside. Place the Hirschmann plug in the side panel, shorten the cable if necessary.



3.3 Motor connection data

	with radio (433 MHz): U = 230 V ~ / 240 W, 50 Hz, I = 1,00 A
markilux 6000 motor drive: 2 folding arms 2^{n}	without radio: U = 230 V ~ / 240 W, 50 Hz, I = 1,10 A
<u>۸</u>	with radio (433 MHz): U = 230 V ~ / 290 W, 50 Hz, I = 1,25 A
markilux 6000 motor drive: 3 - 4 folding arms 🖄	without radio: U = 230 V ~ / 350 W, 50 Hz, I = 1,50 A

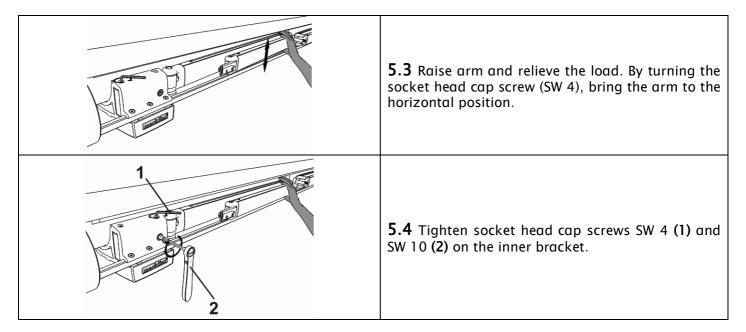
4. Setting the pitch angle

	4.1 With awning extended, first loosen the side clamping screws (SW 19) of the fixtures.
	4.2 Raise arm and relieve the load. By turning the front-face socket head cap screw (SW 8), adjust the pitch angle.
The second secon	4.3 Firmly retighten the clamping screws (SW 19) of the fixture.

5. Arm position with awning retracted

5.1 If with awning retracted, one arm is positioned too high or too low and because of this the front profile does not close correctly, then the arm position is to be corrected.
5.2 Loosen socket head cap screws SW 10 (2) and SW 4 (1) on the inner bracket.





- 6. Fixture covers
- 6.1 Face fixture cover

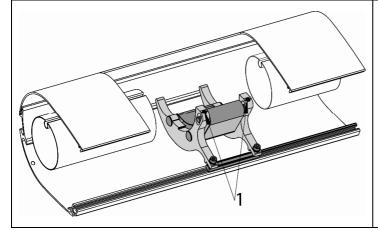
$W = \frac{52^{\circ}}{25^{\circ}} \cdot \frac{35^{\circ}}{15^{\circ}} \cdot \frac{15^{\circ}}{15^{\circ}} \cdot $	6.1.1 From an awning pitch angle of approx. 15°, it is necessary to cut out the plastic covers of the wall fixtures at the thin-walled bridges with a safety knife according to the pitch angle setting. Screw on wall cover.	
		6.1.2 Screw on wall cover with socket head cap screw (SW 5).



6.2 Top fixture cover

6.2.1 Guide the inner side cheek of the ceiling fixture around the awning casing with a 90° turn.
6.2.2 Push outer and inner fixture cheek together.
6.2.3. Screw ceiling fixture cover to the bracket with socket head cap screw (SW 5).

7. Awnings with Rolltex Bearing (size-dependent)



Despite the factory setting, with local pitch angle adjustment a correction may be necessary. The Rolltex bearing has two setting options for an optimal travel of the cover:

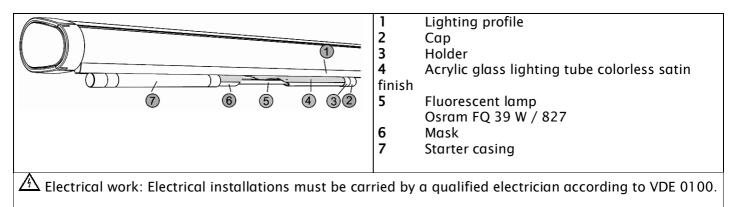
1. Greatest tension of the transport band with a small front awning profile. By evenly turning the two SW 3 set screws (1) clockwise, the transport band is tensioned, relieved by turning evenly anti-clockwise.

2. With **larger awning widths**, it is recommended to set the transport belt more loosely.



8. Awning with lighting (two lamps per unit)

8.1 Overview



8.2 Lighting with dimmer

8.2 Lighting v			
	arkilux® 6000 DIM 9 54 (1) (2) (3) (4) (5) (5)	8.2.1 The cable for the marked with this sticker. The wiring diagram must de faulty connection can lead to device!	finitely be observed, a
Wire color	Terminal		
(1) gray	Control voltage dimmer 10V (+)		
(2) black	Control voltage dimmer 10V (-)	8.2.2 For the connection of	the supply and control
(3) brown	230V~ voltage supply phase	cable, 5 approved screw ter	minals or non-screwed
(4) blue	230V~ voltage supply neutral	terminals with a rated volta	ge of at least 230 V~
	conductor	are required.	
(5)	230V~ voltage supply protective		
green/yellow	conductor		
without protect permitted! It is t the protective c interrupted in/or All electrical cor	Danger to Life: Electrical operation tive conductor connection is not o be observed, that during operation onductor (5) green/yellow is neither in the product nor by the mains cable. Innections and connection leads must necked after being connected and rial operation!	Technical data of a lamp: Power supply: Max. wattage: Lamp: System of protection:	230 VAC 50 Hz (10/16A) 39W OSRAM FQ39W/827 IP54 min. 1.0 mm ²



8.3 Lighting with On/Off switch

(6) { mar IP 5 (6) { AC230V~ { N PE	$ \frac{(1)}{(2)} \\ (3) \\ (4) \\ (5) \\ (5) \\ (4) \\ (5) \\ (5) \\ (6) \\ (6) \\ (7) \\ ($	8.3.1 The cable for the lighting connection is marked with this sticker. The wiring diagram must definitely be observed, a faulty connection can lead to the destruction of the device!
	(6)=Not used!	
Wire color	Terminal	8.3.2 For the connection of the supply and control
(1) gray	Not used!	cable, 5 approved screw terminals or non-screwed
(2) black	Not used!	terminals with a rated voltage of at least 230 V~
(3) brown	230 V~ voltage supply phase	are required.
(4) blue	230 V~ voltage supply neutral	
	conductor	
(5)	230 V~ voltage supply protective	
green/yellow	conductor	
without protect permitted! It is t the protective c interrupted in/or All electrical cor definitely be c before the first t	Danger to Life: Electrical operation tive conductor connection is not to be observed, that during operation onductor (5) green/yellow is neither in the product nor by the mains cable. Innections and connection leads must hecked after being connected and rial operation! ith Shadeplus and Motor Drive	Technical data of a lamp: Power supply:230 VAC 50 Hz(10/16A)39 WMax. wattage:39 W
J. AWIIIIY W		
The electrical connection for motor drive Shadeplus is to be carried out as prescribed by the motor and controller manufacturer. Modifications, in particular concerning the motor, the controller and the connection lead require written authorization.		with radio (433 MHz): U = 230 V ~ / 100 W, 50 Hz, I = 0,80 A

connection lead require written authorization. The installation and setting guide for the motor is enclosed with the fitting instructions.	
The integrated motor has learnt end positions. This setting is carried out at works. If it needs to be altered or corrected, one must proceed according to the motor guide (with radio: portable transmitter)	without radio:



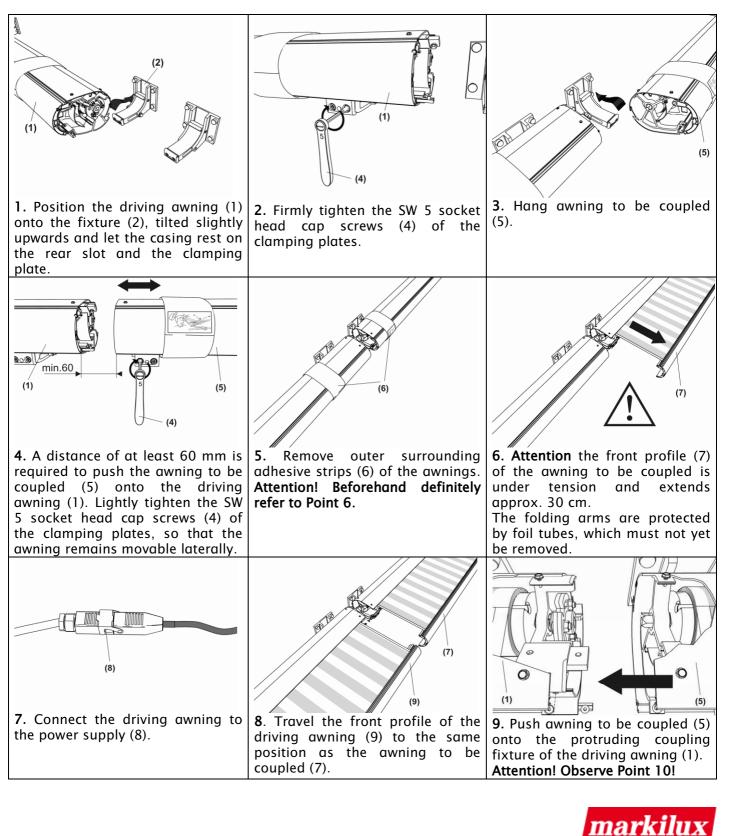
Folding-Arm Cassette Awning markilux 6000

Fitting Instructions for Coupled Units

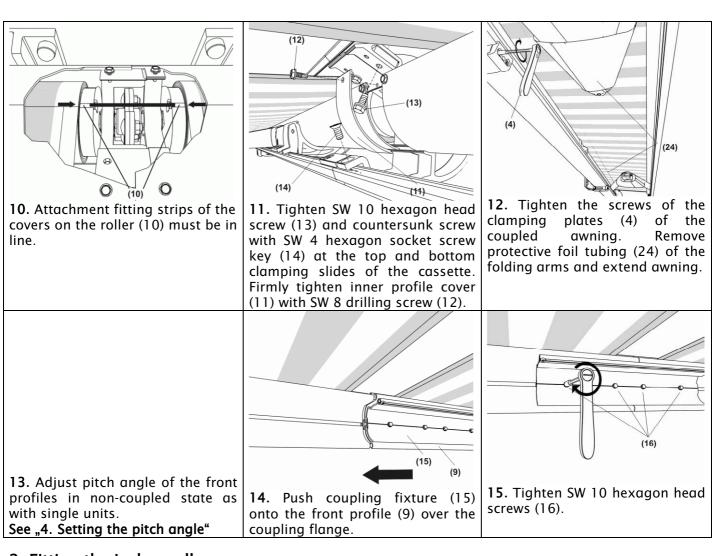


1. Coupled Units

Fit brackets at the points marked with the stickers (red dot) **as with single units**. (No coupling bracket in the middle of the coupling point). During coupling, the unit to be coupled must be pushed onto the driving awning. For this, a distance of at least 60 mm is required.



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2. Fitting the jockey rollers

