

Awning system

markilux markant

The free-standing textile sun and wet weather protection system in a purist design.







Product Characteristics

wall fixture to one side with

wall sealing profile 1)

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installation below ground – water drainage below $^{\mbox{\tiny 1}}$) or above ground $^{\mbox{\tiny 1}}$)



the fields can be extended independently of one another (2-field unit)



10 LED-Spots in the gutter 1)



1) Optional accessories



water drainage through the centre of the fabric in the direction of extension



the inside of the frame system can be cleaned with ease



combination with markilux 625 tracfix and markilux 776 tracfix 1)



11 integrated markilux infrared heater 1)



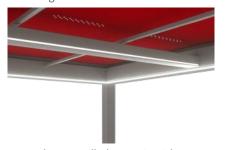
asymmetrical footplates with water drainage



cover support profiles



LED-Line in the frame and / or in 9 the gutter 1)



radio-controlled motor io with markilux hand-held transmitter



Product Characteristics

Description

- free-standing, rectangular awning system on four posts, defined as sun and wet weather protection
- the integrated single or double awning lends the system a unique textile character
- · rainwater drains through the specially manufactured cover into a gutter running down the centre of each awning
- areas up to 3 x 6 m can be protected using one cover or 6 x 6 m using 2 covers.

Special features

- radio-controlled motor in io technology as standard
- in a 2-field unit, each awning can be operated independently
- the tried and tested tensioning system with drive belts and integrated gas pistons
- with tracfix system, the continuous lateral cover guidance system that leaves no gap between the cover and guide tracks
- cover support profiles across the awning (removable if required) offer even greater stability
- the awning cover is bonded with stabilising vertical panel joints in the case of the sunvas / sunsilk / sunbow / perla FR series the standard panel width is 120 cm (sunvas oversized fabric material is used seamlessly up to a post centre to centre separation in the width of 250 cm)
- rainwater drains through holes in the material into a gutter which runs centrally from back to front
- water is channelled to the outside via the gutter and down to the ground via the posts
- posts optionally with water drainage above ground to the side or water drainage below ground
- numerous lighting and heating options
- can be combined perfectly with the vertical blinds markilux 625 tracfix and markilux 776 tracfix (the latter optionally with panorama window) to create a modern, interior design outdoors

Dimensions

- 1 field 1 motor: width 213.5–312.5 cm, extension maximum 612.5 cm
- 2 fields 2 motors: total width 313.5-612.5 cm, extension maximum 612.5 cm, field widths always symmetrical
- total height standard 260 cm, minimum 64 cm maximum 350 cm (post cannot be shortened on site)

Awning profiles

- extruded aluminium, in façade quality, powder coated
- square post profile 125 × 125 mm with integrated cable ducts, very easily accessible
- the frame is visually square in appearance, height 280 mm

Corner joints

- · corner joints of the frame made of die-cast aluminium, cover profiles made of extruded aluminium, powder coated
- the sophisticated design ensures easy access to and maintenance of the front profile of the frame

Post footplates

- the post feet can be adjusted by 120 mm in height to allow the system to be levelled
- asymmetrical footplate covers as standard 201 × 201 mm made of die-cast aluminium, powder coated
- optionally without footplate covers for installation below the ground
- \bullet optionally with adapter plates for installation on Krinner screw-in foundations

Use in wind, rain and snow

- the awning or awnings have to be retracted if the wind speed exceeds 48 km/h. Gusts of wind can cause the cover to hit the cover support profiles / rain gutter and thus generate noise. As a result, draining water may miss the gutter. The awning system must be retracted in gusty wind conditions
- the awning can be used in the case of "normal" rainfallin the case of heavy rainfall, the system must be retracted
- snow must not be allowed to load the system

N.B!: For installation we recommend the use of two electric lifts. E. g. "Portable awning lift Upter CM 340" bearing load 120 kg / extendable height 3 .3 m from KeM. Tech **www.kemtech-ksf.com**.

For additional information and configuration options, please refer to the section "General Information" and "markilux Optional Accessories" in the volume "Designer Awnings for Conservatories, Glass Canopies and Windows".

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Frame colours

markilux frame colours without surcharge

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traffic white, RAL 9016 metallic aluminium, RAL 9006



stone grey metallic, 5215 1)



anthracite metallic, 5204 1)

grey brown, similar to RAL 8019





havana brown textured finish, 5229 $^{\mbox{\tiny 1})}$

off-white textured finish, 5233 1)



Non-standard powder-coated finish

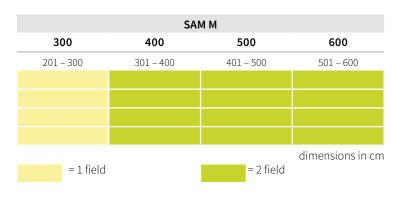
Bespoke frame colours incur a surcharge – matt, metallic, finely textured and pearl finishes as well as other colour ranges (DB, Tiger etc.) on request. All frame colours are available at a surcharge with enhanced corrosion protection. Colours may differ slightly from those depicted in both hue and finish.

1) textured finish

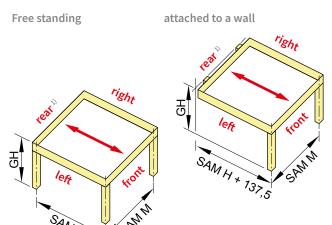
Dimensions and configuration options

Order dimensions





markilux markant 1 field



markilux markant 2 fields

Free standing

To len work

attached to a wall

Fight

SAM H + 137,5

Common

dimensions in mm

GH = order dimension = overall height (standard = 260 cm; min. 64 cm - max. 350 cm)
SAM H = order dimension = centre to centre post separation in the direction of extension

SAM M = **order dimension** = centre to centre post separation in the width

1) Cable exit optionally on the left or right post footplate at the rear, cable exit at the front on request

(Operation	standard	optional	
	crank handle	_	_	
	hard-wired motor	_	_	
	silentec motor (optionally with an external io / RTS receiver)	_	_	
	868 MHz radio-controlled motor io	\checkmark	_	
	868 MHz radio-controlled motor io, with manual override	_	_	
	radio-controlled motor RTS, 433 MHz	_		

Awning cover	fabric pattern no.	standard	optional
sunvas	300315	\checkmark	_
sunsilk	324 / 328 / 369	\checkmark	_
sunbow 2)	411427	\checkmark	_
smart art	340	_	\checkmark
perla FR 1)	371 / 372	\checkmark	_

- 1) recommended
- 2) up to 400 cm extension available

(Control options of lighting / heating	standard	optional
	on/off switch	_	_
	radio-controlled dimmer io 868 MHz	\checkmark	_
	radio-controlled dimmer RTS 433 MHz	_	_

Coupled awnings

not available

Optional accessories

LED-Line all around in the frame profile

LED-Line in the rain gutter ²⁾

LED-Spots attached to the rain gutter ²⁾

infrared heater 2500 W dimmable in 3 stages with integrated radio-controlled receiver 868 MHz io ²⁾

combination with vertical blinds and markilux format

2) for configuration please view section "Lighting and heating options"

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Lighting and infrared heater options

markant 1 field, 1 motor, free-standing or with wall connection (fig. by way of example)

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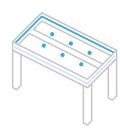
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LED-Line in the frame



Option 5:

LED-Line in the frame and LED-Spots fitted to the gutter



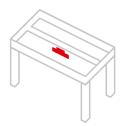
Option 2:

LED-Line in the gutter



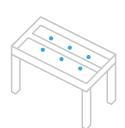
Option 3:

LED-Line in the frame and LED-Line in the gutter



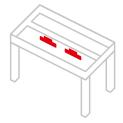
Option 6:

1 infrared heater fitted to the gutter can be combined with Option 1



Option 4:

LED-Spots in the gutter



Option 7 1):

2 infrared heater fitted to the gutter

can be combined with Option 1

Controls

LED-Line in the frame

 \rightarrow can only be switched on / off and dimmed all around

LED-Line in / LED-Spots fitted to the rain gutter

→ can only be switched on / off and dimmed together (1field and 2 fields)

infrared heater

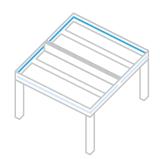
→ can be switched on / off and dimmed individually.

N.B.: infrared heaters cannot be added at a later stage.

1) Recommended when the centre to centre post separation in the direction of awning extension is > 400 cm.

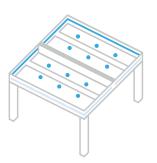
Lighting and infrared heater options

markant 2 fields, 2 motors, free-standing or with wall connection (fig. by way of example)



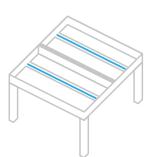
Option 1:

LED-Line in the frame



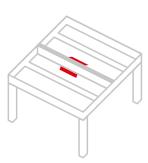
Option 5:

LED-Line in the frame and LED-Spots fitted to the gutters



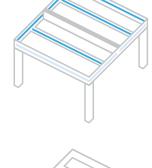
Option 2:

LED-Line in the gutters



Option 6:

2 infrared heaters fitted to the coupling profile can be combined with options 1, 2, 3, 4, 5



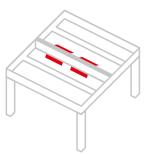
Option 4:

Option 3:

LED-Line in the frame

and LED-Line in the gutters

LED-Spots in the gutters



Option 7 1):

4 infrared heaters fitted to the coupling profile can be combined with options 1, 2, 3, 4, 5

Controls

LED-Line in the frame	→ can only be switched on / off and dimmed all around	
LED-Line in / LED-Spots fitted to the rain gutter	→ can only be switched on / off and dimmed together (1field and 2 fields)	
infrared heater	→ can be switched on / off and dimmed individually.	

N.B.: infrared heaters cannot be added at a later stage.

1) Recommended when the centre to centre post separation in the direction of awning extension is > 400 cm.

Lighting options LED Line

LED-Line all around in the frame profile

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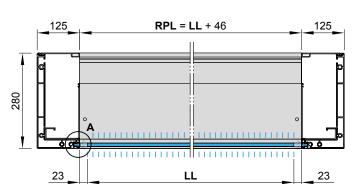
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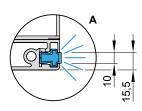
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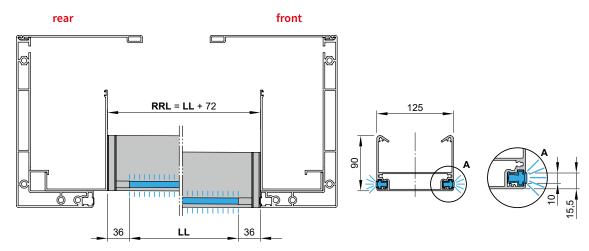
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LED-Line in the gutter, on both sides



Technical specification

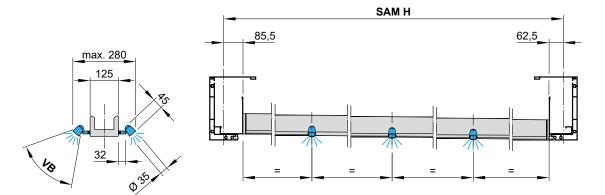
operating voltage	230 V, 50 Hz		
power output per metre	9 W / metre		
number of LEDs per metre	90 units / metre		
number of transformers	1 unit		
light temperature	warm white		
IP protection class	iP 44		
service life	approx. 15,000 hours		

LL = LED-Line length
RPL = frame profile length
RRL = front gutter length

dimensions in mm

Lighting options LED-Spots

LED-Spots fitted to the gutter, on both sides



Technical specification

operating voltage	230 V, 50 Hz
power output of one LED spotlight	5 W
light source	LED (12 V)
number of transformers	1 unit
light temperature	warm white
IP protection class	iP 44
service life	approx. 20,000 hours

order dimension = centre to centre post separation in the direction of extension SAM H =

adjustment range dimensions in mm

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	operating voltage	230 V, 50 Hz
	power output of one LED spotlight	5 W
	light source	LED (12 V)
	number of transformers	1 unit
	light temperature	warm white
	IP protection class	iP 44
	service life	approx. 20,000 hours

markilux infrared heater 2500 W

Dimmable in 3 stages with integrated radio-controlled receiver 868 MHz io

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Special features

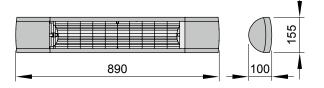
- · soft start function with reduced initial current surge
- cooling fins on the back prevent excessive heating of the mounting surface
- · the asymmetrical reflector gives optimum heat distribution
- infrared halogen lamp with "Ultra Low Glare" heating tube technology and pleasant colour temperature
- minimum installation height 1.8 m
- minimum distance to any irradiated object 1 m

markilux heaters offer the benefit of cosy infrared warmth – making your stay outside a pleasant one. While producing a minimum of glare, they turn the energy used into a maximum of warmth. Infrared heaters are perfect leisure time companions for garden, terrace, balcony and under awnings. They are efficient, conserve energy and create a warm atmosphere at the touch of a button.

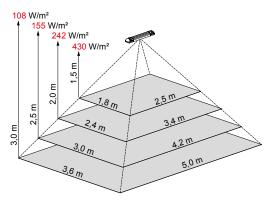
Technical specification

power supply	230 V, 50 Hz, 16 A
power supply wire cross section	H05SS-F2G 3 × 1,5 mm ²
power output (per heater)	2500 Watt
length × depth × height	890 × 100 × 155 mm

Overview of dimensions



Maximum infrared radiation intensity Infrared heater 2500 Watt



Core radiation zone (50 % of the central radiation intensity)

Power supply

Recommendations for radio-controlled io motor / lighting / infrared heater

All cables only ever exit at the base of one post (state when ordering). The wire cross-section for the power connection to VAC 50 Hz are recommendations and can also be chosen larger as long as they fit the plugs / sockets.

Connection for

Connection only to a VDE-certified 230. V AC connection, which must be protected by an RCCB. For an infrared heater, the house installation for the power supply must be protected by a circuit breaker of at least 16 A with higher inrush current (trigger characteristic C).

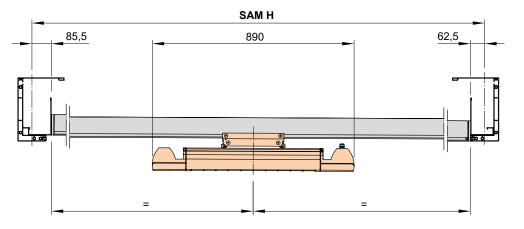
Number of cores × wiring cross section

motor for 1 field motors für 2 fields		1		3 × 1,5 mm ²
		1		5 × 1,5 mm ²
motors fur	2 fields	2	or —	3 × 1,5 mm ²
LED-Line	frame	1		3 × 1,5 mm ²
LED-Line in the frame and	LED-Line in the gutter	1		3 × 1,5 mm ²
infrared hea	ter (each)	1		3 × 1,5 mm ²
Power connection type →		Permanent		Flexible
Cable description → NYY-J		N	/M-J	H07RN-F
Ground cable for the permanent installation • indoors • outdoors • under the ground • in concrete		• for the perman	doors only with tective tube for installation	Flexible rubber-sheathed cable for outdoor use for connection to a junction box on a building

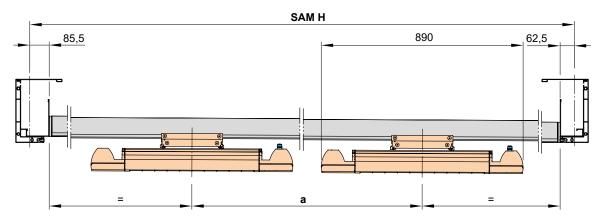
Number of wire cores

Heating options, 1 field

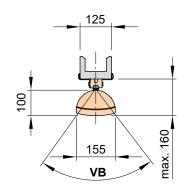
1 infrared heater fitted to the gutter



2 infrared heater fitted to the gutter



Front view



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SAM H	a
up to 4000	_
	(one infrared heater)
4000 – 4500	1900
4501 – 5000	2100
5001 – 5500	2300
5501 – 6000	2500

a = heater separation

SAM H = **order dimension** = centre to centre post separation in the direction of extension

VB = adjustment range

dimensions in mm

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Heating options, 2 field system

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2 infrared heaters fitted to the coupling profile

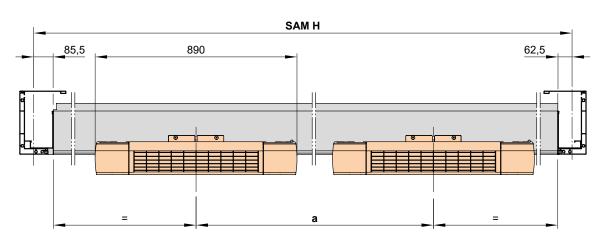
SAM H

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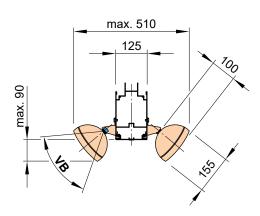
890

62,5

4 infrared heaters fitted to the coupling profile



Front view



Heater separation

SAM H	a
up to 4000	_
	(one infrared heater)
4000 – 4500	1900
4501 – 5000	2100
5001 – 5500	2300
5501 - 6000	2500

a = heater separation

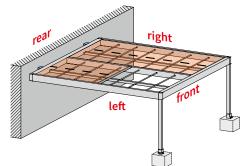
SAM H = order dimension = centre to centre post separation in the direction of extension VB = adjustment range

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 $dimensions \ in \ mm$

Wall fixture

At the rear as standard - can be planned individually



Example: Fixture **at the rear** using two face fixture brackets – the rear support posts left and right can be done away with

Overview of dimensions

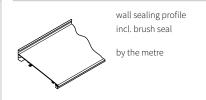
Wall sealing profile



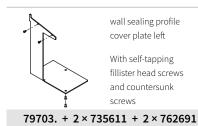
face fixture bracket for bracket frame profile 72535.

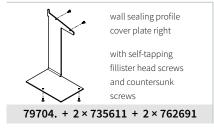
72535.

frame profile bracket

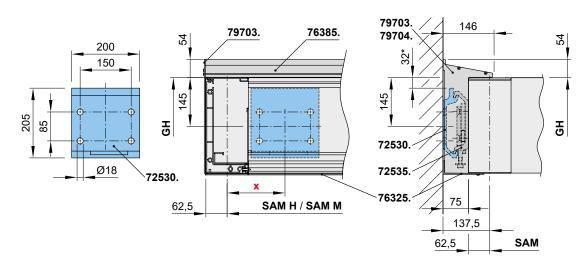


76385. and 704241.









* = as supplied / max. 45 mm

GH = **order dimension** = overall height (standard = 260 cm;

min. 64 cm - max. 350 cm)

SAM H = **order dimension** = central post spacing

SAM M = **order dimension** = post separation centre to centre

x = order dimension = inward bracket position = min.

17 cm bis max. 90 cm (max. 15 % von **SAM M**)

704241 = brush seal for wall sealing profile 76385.

72530. = face fixture bracket for the markant frame profile 72535.

72535. = frame profile bracket

735611 = pan-head self-tapping screw

762691 = countersunk screw

76385. = wall sealing profile (optional)

76386. = side plate for wall sealing profile 76385. **79703.** = side plate for wall sealing profile left

79704. = side plate for wall sealing profile right

dimensions in mm

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Overview of dimensions

1 field, free-standing, 1 motor

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KR

F2

SAM H

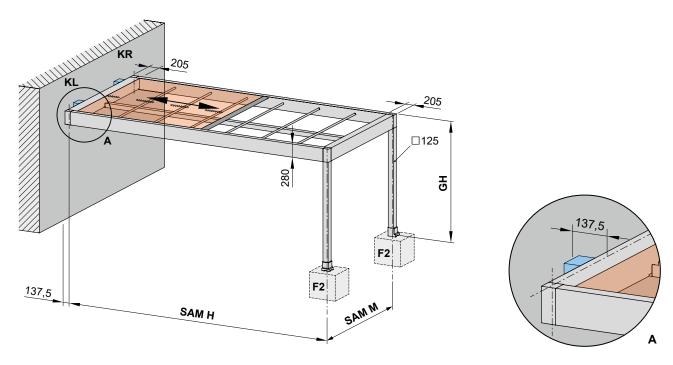
SAM M

SAM M

1 field with wall fixture, 1 motor

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N.B! To ensure the awning functions properly, the frame of the awning must be set up to be perfectly level in both width and extension.

Please note: For installation we recommend the use of two electric lifts. E. g. "Portable awning lift Upter CM 340" bearing load 120 kg / extendable height 3.3 m from KeM. Tech (www.kemtech-ksf.com)

F2 = please view section "Concrete foundations"

GH = order dimension = overall height (standard = 260 cm; min. 64 cm – max. 350 cm)

KL, KR = order dimension = cable exit point on the left / right, cable exit point at the front on request

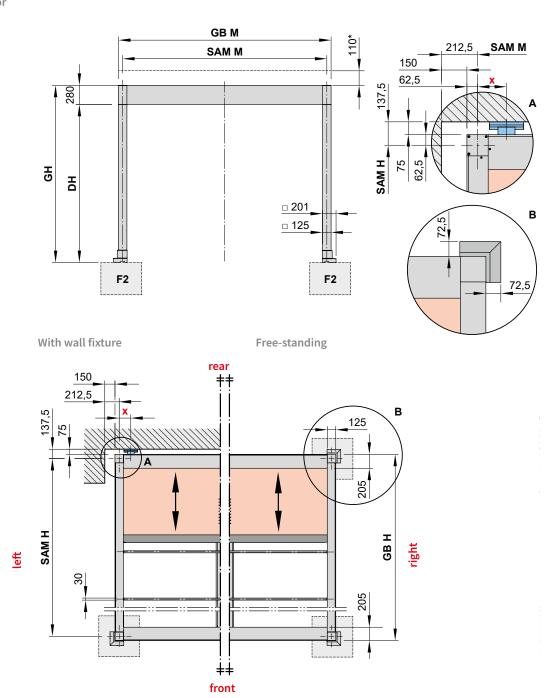
SAM H = **order dimension** = centre to centre post separation in the direction of extension

SAM M = **order dimension** = centre to centre post separation in the width

dimensions in mm

Overview of dimensions

1 field, 1 motor



* = minimum distance eaves ←→ top of markilux markant

DH = headroom

F2 = please view section "Concrete foundations"
GB H = overall size in the direction of extension
GB M = overall size in the direction of width

GH = order dimension = overall height (standard = 260 cm; min. 64 cm - max. 350 cm)
SAM H = order dimension = centre to centre post separation in the direction of extension

SAM M = **order dimension** = centre to centre post separation in the width

x = order dimension = inward bracket position = min. 17 cm bis max. 90 cm (max. 15 % von SAM M)

dimensions in mm

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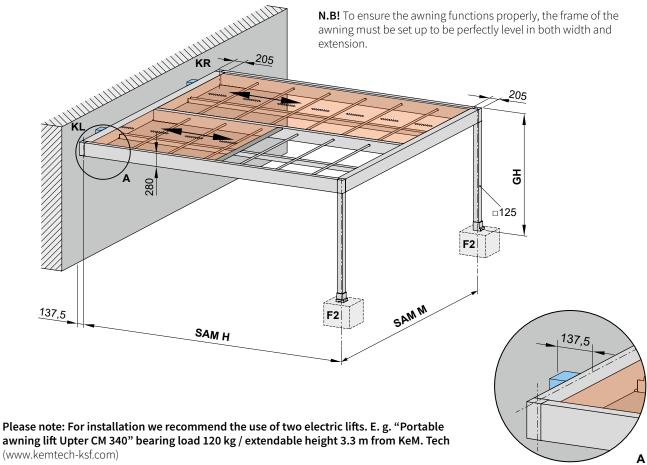
Overview of dimensions

2 fields, free-standing, 2 motors

205 205 125 80 KR F2 SAMM

2 fields, with wall fixture, 2 motors

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F2 = please view section "Concrete foundations"

GH = order dimension = overall height (standard = 260 cm; min. 64 cm – max. 350 cm)

KL, KR = order dimension = cable exit point on the left / right, cable exit point at the front on request

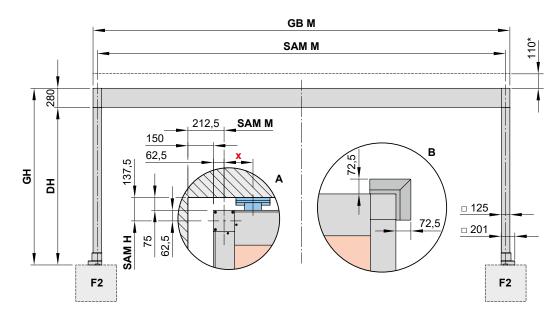
SAM H = **order dimension** = centre to centre post separation in the direction of extension

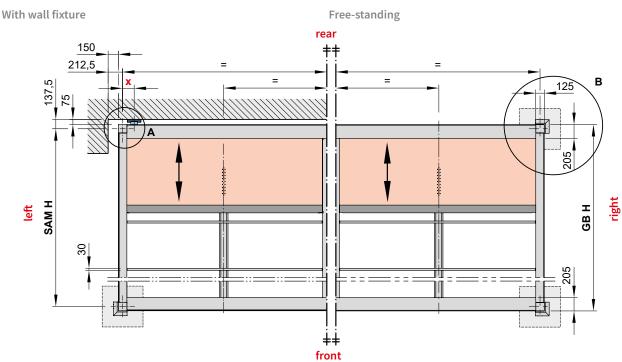
SAM M = **order dimension** = centre to centre post separation in the width

dimensions in mm

Overview of dimensions

2 fields, 2 motors





* = minimum distance eaves ←→ top of markilux markant

DH = headroom

F2 = please view section "Concrete foundations"
GB H = overall size in the direction of extension
GB M = overall size in the direction of width

GH = order dimension = overall height (standard = 260 cm; min. 64 cm - max. 350 cm)
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SAM M = **order dimension** = centre to centre post separation in the width

x = order dimension = inward bracket position = min. 17 cm bis max. 90 cm (max. 15 % von SAM M)

dimensions in mm

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Schematic diagram - water drainage

1 field 2 fields

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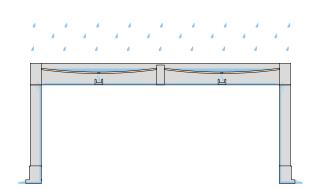
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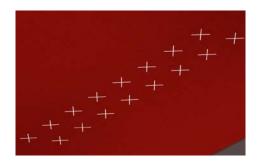
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N.B! If the unit is to be used in rain, a fabric from the perla FR ranges should definitely be selected. Standard fabrics from the sunsilk, sunvas and sunbow ranges do not remain waterproof if subjected to rainfall for a longer period.

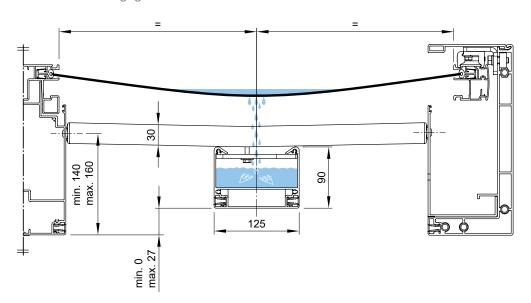
perla FR. This flame-retardant and water-repellent sunsilk fabric with an additional transparent, highly water-resistant coating on the underside of the fabric offers optimum protection against rain.

Water drainage in the cover
The water drains into the rain gutter underneath through centrally placed cross holes in the cover.





Dimension overview of the drainage gutter



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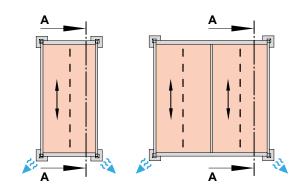
= water drainage

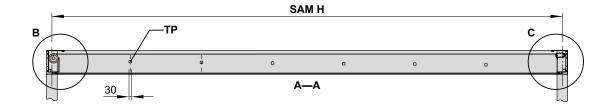
SAM M = **order dimension** = centre to centre post separation in the width

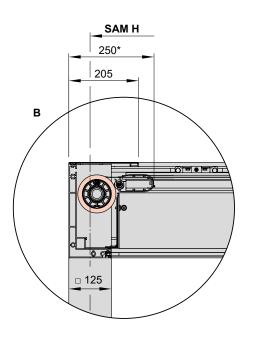
dimensions in mm

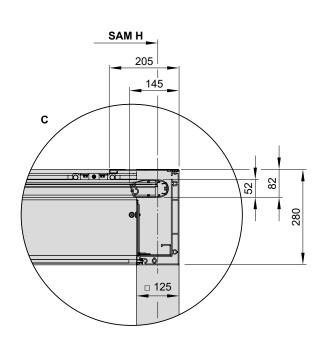
Overview of dimensions

1 field and 2 field units, sectional view in direction of awning system width









Quantity of cover support profiles

SAM H	Number of TP
2000 – 3450	3
3451 – 4300	4
4301 – 5150	5
5151 – 6000	6

= water drainage

= extension when retracted

SAM H = **order dimension** = centre to centre post separation in the direction of extension

TP = cover support profile

dimensions in mm

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Overview of dimensions

1 field and 2 field units, sectional view in direction of awning system width

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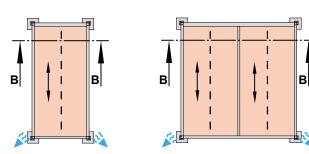
04

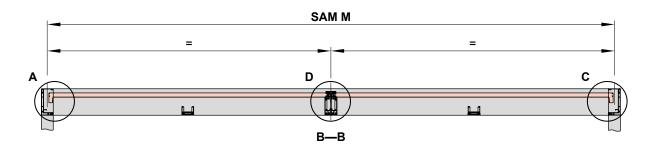
05

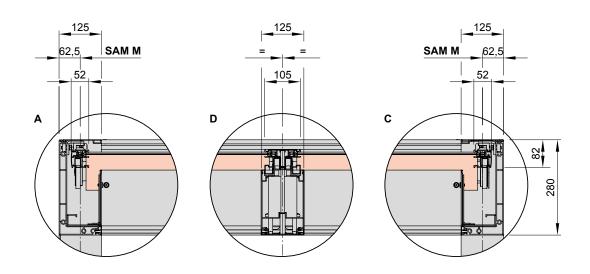
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water drainage detailed view, 2 field unit D

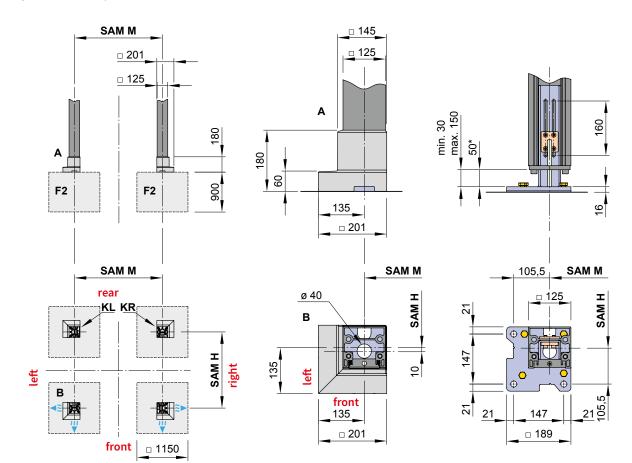
SAM M = **order dimension** = centre to centre post separation in the width

dimensions in mm

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Post feet dimensions

Asymmetrical footplate cover (standard)



🗱 = water drainage

1) = optional, cannot be combined with vertical cassette blind markilux 625 tracfix or 776 tracfix

= dimensions on delivery

F2 = please view section "Concrete foundations"

KR, KL = order dimension = cable exit point on the left / right at the rear via the base plate Ø 40 mm, cable exit point at

the front, on request

SAM H = **order dimension** = centre to centre post separation in the direction of extension

SAM M = **order dimension** = centre to centre post separation in the width

dimensions in mm

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Overview of dimensions

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Foundation below ground, water drainage via the post above ground

right rear Α 71979. F2 left F2 front F2 SAM H 71979. <u>℃</u> 8 GH 230 min. F2

= water drainage* = dimensions on delivery

ED = under the ground

F2 = please view section "Concrete foundations"
UH = datum below ground (min. 180 mm – max. 270 mm)

SAM H = **order dimension** = centre to centre post separation in the direction of extension

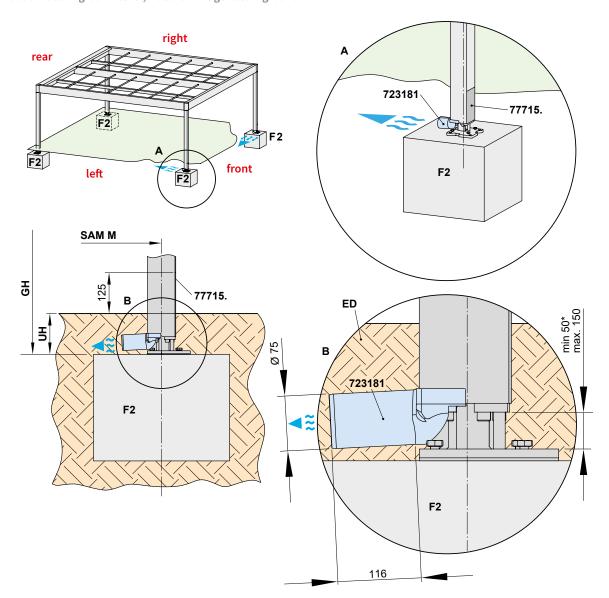
71979. = cover for water drainage outlet to the side

Dimensions in mm

172

Overview of dimensions

Foundation below ground level, water drainage below ground



= water drainage
* = dimensions on delivery

723181 = drain spout

77715. = post cover profile, in two pieces

ED = under the ground

F2 = please view section "Concrete foundations"

SAM M = **order dimension** = centre to centre post separation in the width

UH = datum below ground (min. 180 mm – max. 270 mm)

Dimensions in mm

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Dimension overview KRINNER ground screw

Krinner KSF140×1600-P

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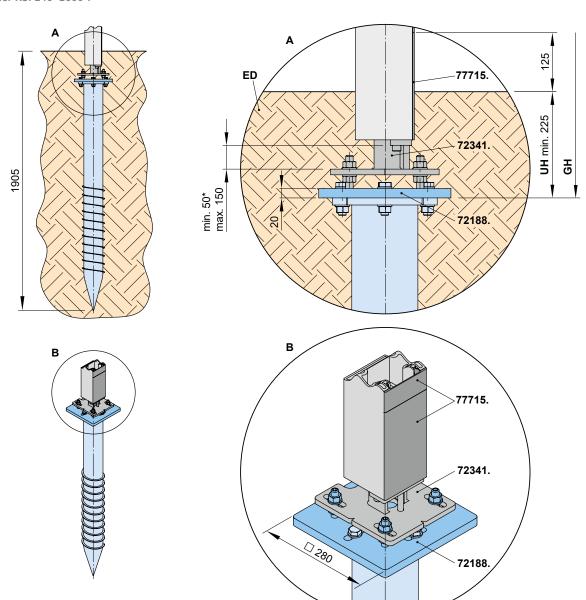
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For up-to-date technical information please refer to the document "Krinner Ground Screw" (can be found in the restricted area of the website under "Information for Specialist Dealers" at promarkilux.com

* = dimensions on delivery
72341. = foot (adjustable in height)
72188. = adapter plate markilux markant
77715. = post cover profile, in two pieces

ED = under the ground GH = overall height

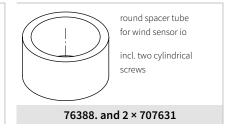
UH = foundation level below ground (min. 225 mm)

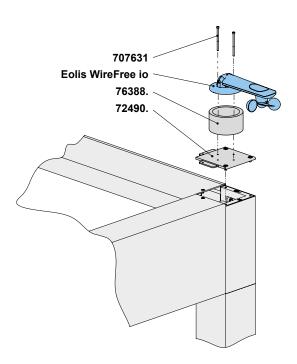
Dimensions in mm

Overview

Installation of wind sensor Eolis WireFree io (optional)







N.B! The wind sensor can be installed on any of the four corners.

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Overview of dimensions

markilux 776 tracfix fitted to the markilux markant

Teal

Tight

205

Tight

205

Tight

And

SAM H

SAM H

Panoramic window feature optional.

11

markilux markant can also be combined with the vertical blind markilux 625 tracfix.

Subsequent installation of vertical blinds is not possible.

N.B! If the system needs to be levelled by adjusting the height of the post feet, any vertical blind that has been fitted may not finish parallel to the ground.

AH = order dimension markilux 776 tracfix = unit height

GH = order dimension = overall height (standard = 260 cm; min. 64 cm - max. 350 cm)

MA = order dimension markilux 776 tracfix = awning fixture width

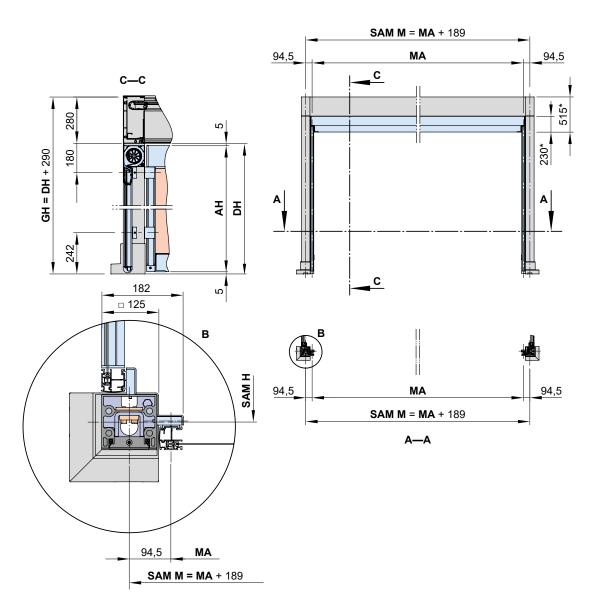
SAM H = order dimension markilux markant = centre to centre post separation in the direction of extension
SAM M = order dimension markilux markant = centre to centre post separation in the direction of width

dimensions in mm

Overview of dimensions

markilux 776 tracfix fitted to the markilux markant





N.B! Vertical blinds cannot be added at a later stage.

* = extension when retracted

AH = order dimension markilux 776 tracfix = overall awning height

DH = headroom

GH = **order dimension** = overall height (standard = 260 cm; min. 64 cm – max. 350 cm)

MA = order dimension markilux 776 tracfix = awning fixture width

SAM H = order dimension markilux markant = centre to centre post separation in the direction of extension
SAM M = order dimension markilux markant = centre to centre post separation in the direction of width

dimensions in mm

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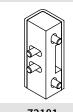
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Overview of dimensions

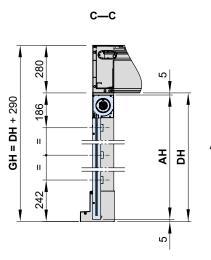
markilux 625 tracfix fitted to the markilux markant

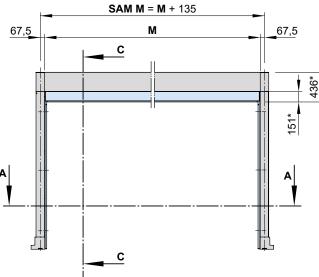


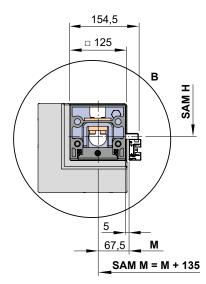
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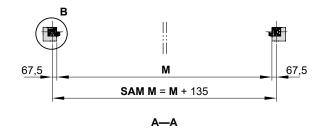
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reveal fixture bracket markant for the markilux 625 tracfix 72181.









N.B! Vertical blinds cannot be added at a later stage.

extension when retracted

order dimension markilux 625 tracfix = overall awning height ΑH

DH

GH order dimension = overall height (standard = 260 cm; min. 64 cm – max. 350 cm)

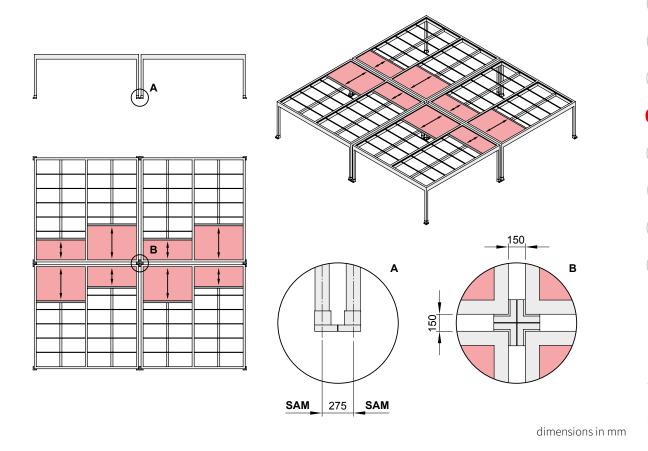
order dimension markilux 625 tracfix = overall blind width М

order dimension markilux markant = centre to centre post separation in the direction of extension SAM H = order dimension markilux markant = centre to centre post separation in the direction of width SAM M =

dimensions in mm

Overview

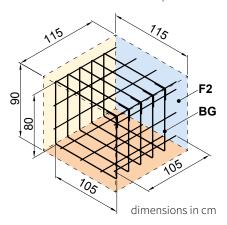
Combination example four 2-field awning systems



Concrete foundation

To be supplied on site:

Concrete foundations with compressive strength C25/30 (previously B25) with rebar matting basket made of rebar matting Q188.



The footplates F2 are to be fitted to the concrete footings using Fischer marine-grade stainless steel anchor bolts FAZ 16/50 aus A4 and washers certified to DIN 9021 (or equivalent).

Alternatively fixture can be realised using Krinner ground screws. Adapter sets for installation to these are available.

SAM = post separation centre to centre