

Pergola awning

markilux pergola classic

Exceptional sun and wet weather protection for large areas.





Product characteristics

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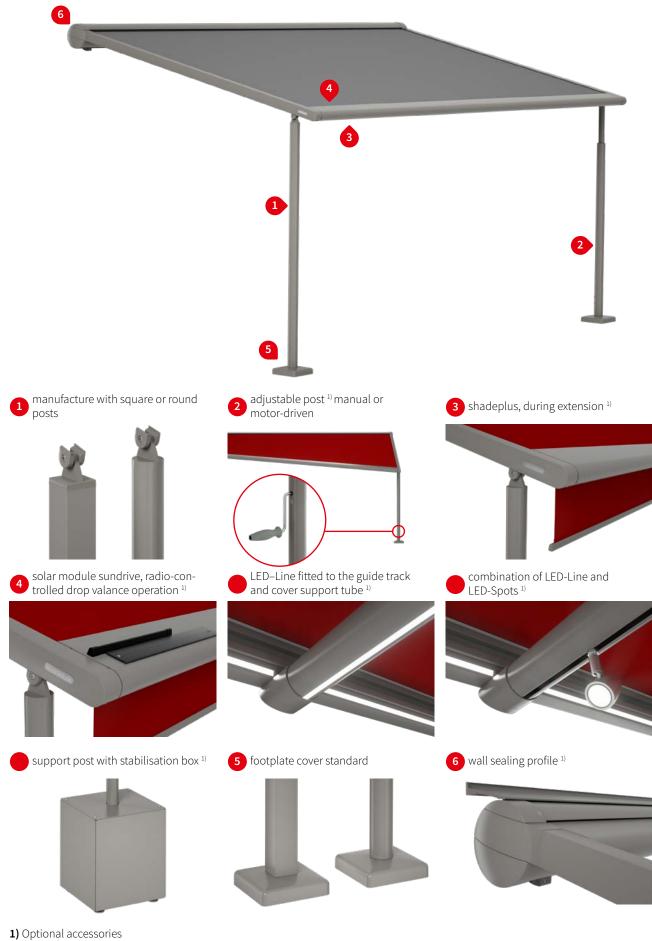
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Wind resistance class 3 Beaufort $6 \rightarrow 38-48 \text{ km/h} \rightarrow 10.5-13.4 \text{ m/s} \rightarrow 24-30 \text{ mph}$



Pergola awning markilux pergola classic

Product characteristics

Description

• the awning system on slender posts and with lateral guide tracks provides generous shade with an extension of up to 6 metres and for areas up to 30 m² with a single unit. Thanks to the tracfix cover guidance system, the sophisticated and reliable tensioning technology and its sturdy construction, the system can be used up to Beaufort 6 (wind resistance class 3).

Special features

- fully encompassing cassette that protects the cover perfectly
- tried-and-tested tensioning system with drive belts and integrated gas pistons delivers optimum cover tension in any phase of extension
- with tracfix system, the continuous lateral cover guidance system that leaves no gap between the cover and guide tracks
- option of shadeplus vertical protection against low-lying sun, wind and inquisitive glances integrated into the front profile, can be be operated manually or solar driven by radio remote control
- various lighting combinations available: light strip LED Line in the guide tracks, LED Line in the cover support tube or LED-Spots fitted to the cover support tube individually configurable lighting options providing a pleasant atmosphere in the evening
- an optional telescopic post, manually operated, ensures water drainage, even at the low minimum pitch of 7° (Depends on the extension the greater the extension the greater the minimum pitch required)
- support posts optionally round or square, incl. screw-on footplates or ballast boxes for versatile installation
- can be combined perfectly with the awning systems markilux syncra, the vertical roller blinds markilux 876 tracfix, markilux 776 tracfix and the side screen, markilux 790

Dimensions

- single unit: 72,5–600 cm in width, maximum projection 600 cm (depending on the width)
- maximum dimensions width × extension: 500 × 600 cm / 550 × 500 cm / 600 × 450 cm
- coupled units up to 5 fields wide are available
- intermediate sizes are available

Roller tube and lateral bearings

- round roller tube Ø 95 mm with keyway, galvanised steel excellent stability, ensures near perfect cover performance even at the largest widths
- Bearing Die-cast aluminium cloth shaft

Awning profiles

- extruded aluminium, in façade quality, powder coated
- cassette profile in two pieces, round, Ø 187 mm
- angular guide tracks, width × height 60 mm × 70 mm (coupling guide track 116 × 70 mm)
- front profile rounded at the front, depth \times height 150 mm \times 70 mm

End caps

- the cassette end caps with opening for guide tracks are made of die-cast aluminium, powder coated
- \bullet the top maintenance cover is made of high-quality plastic, powder coated
- the front profile end caps are made of high-quality plastic, powder coated

Fixture brackets and support posts

- extruded aluminium, powder coated
- Cassette holder: wall mounting, ceiling mounting, rafter mounting
- support post round \emptyset 70 mm or square 70 × 70 mm, standard height 250 cm, heights up to 300 cm are available
- screw-on footplate 200 × 200 mm
- footplate cover 212 × 212 mm in one piece, height 48 mm, is made of die-cast aluminium, corners rounded
- a version of the support posts with optional ballast box $600 \times 600 \text{ mm} \times 525 \text{ mm}$ (wxdxh), for versatile installation is available

N.B! For additional information and configuration options, please view chapter "General Information" and "markilux Optional Accessories" in the volume "Design blinds for windows | Glass roof awnings".

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Frame colours 01

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traffic white, RAL 9016

markilux frame colours without surcharge

metallic aluminium, RAL 9006

grey brown, similar to RAL 8019







off-white textured finish, 5233 1)

stone grey metallic, 5215 1)

anthracite metallic, 5204 1)







havana brown textured finish, 5229 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

Pergola awning markilux pergola classic

Dimensions and configuration options

Single unit

				Awning fixture width					Minimum fixture				
		150 1)	200 1)	250	300	350	400	450	500	550	600	wi	dth
Order	r dimensions	73 2)	151	201	251	301	351	401	451	501	551	Hard-	Radio-
Over	all Awning	150	200	250	300	350	400	450	500	550	600	wired motor	controlled motor
width						+	10					IIIOtoi	IIIOtoi
	150 1)												
	200												83 ²⁾
	250												
	300												
н	350											73 ²⁾	
• •	400											15	05 /
	450												
	500										_		
	550									_	_		
	600									_	_		
	dimensions in cm												
1) =	only pergola	with fixe	d posts						= optio	nally ava	ailable wit	th 20 cm telesc	opic post

2) = 94 cm for drop valance with sundrive solar panel

H = **order dimension** = extension

= optionally available with 30 cm telescopic post = optionally available with 40 cm telescopic post

extension ≤ 250 extension $\geq 251 \leq 350$ extension $\geq 351 \leq 450$ extension ≥ 451

The minimum pitch that will ensure water drainage

Unit with fixed posts, without shadeplus 14° 14° 14° 14° 17° 17° 17° 17° Unit with fixed posts, with shadeplus Unit with telescopic post, 7° 9° 8° 10° without / withshadeplus

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

1) Only available for awnings with 1 field and 2 fields, 2 motors

Awning cover	fabric pattern no.	standard	optional				
sunvas 1) 5)	300315	\checkmark	_				
sunsilk ^{1) 5)}	324 / 328 / 369	√	_				
sunbow 1) 5)	411427	\checkmark	_				
smart art 1)	340	_	\checkmark				
perla FR 1)	371 / 372	_	\checkmark				
perfotex 2)	331 / 332	\checkmark	_				
transolair 3)	338	_	\checkmark				
transolair (120 cm) 1)	339	_	\checkmark				
Soltis Perform 92 4)	92	_	√				
Standard fabric panel widths							

1) 60 cm 2) 120 cm **3)** 84 cm

4) 88,5 cm

5) In the case of striped patterns, a symmetrical pattern repeat at every second seam is not possible.

Coupled awnings

2-5 fields, 1 motor per field

alternatively 2 fields 1 motor / 3 fields 2 motors / 4 fields 2 motors maximum size per field: see "single unit" dimensions

General notes

Different field extensions are available in a coupled awning. The rolling up behavour of the covers may vary in coupled awnings that have different field sizes. This does not effect the functionality of the awning or shorten the service life of the covers.

The option of having telescopic posts in awnings with 3–5 fields is only available on request.

Drop valance ^{1) 2)}	Standard	Optional
-------------------------------	----------	----------

Height 230 cm (crank handle, depending on the fabric series

Height 210 cm (motor operation, depending on the fabric series chosen)

,		
crank handle	✓	_
hard-wired motor	_	_
radio-controlled motor, 868 MHz, io with sundrive incl. radio antenna	_	\checkmark
radio-controlled motor, 433 MHz, RTS with sundrive	_	\checkmark

fabric pattern sunvas / sunsilk / sunbow / transolair / vuscreen Alu / Soltis Perform 92 / Serge 600

- 1) Shadeplus cover is narrower than the awning cover
- 2) In the case of coupled awnings, available for all fields only

1 Optional accessories

adjustable posts, manual or motor-driven

posts with stabilisation boxes

shadeplus, radio remote control with solar module

sundrive or manual

LED-Line in the guide tracks on both sides

LED-Line in the cover support tube 1)

LED-Spots in the cover support tube 1)

infrared heater 2500 W

infrared heater 2500 W with integrated radio-controlled receiver 868 MHz Funk io

wall sealing profile

several motors in a coupled awning, can be operated independently

vertical cassette blind markilux 776 tracfix

automatic controls (light, wind, rain)

Important background information can be found in the chapter "Optional Accessories" in the sales manual "Designer Awnings for Conservatories, Glass Canopies and Windows"

 ${\bf 1)}$ LED-Line and LED-Spots cannot be combined with one another

markilux shadeplus

Tips for selecting a shadeplus fabric

Ideally, a shadeplus cover should be made **seamlessly** or with horizontal panels (the cover then has a **horizontal seam**) in order to achieve the best result.

Seamless fabric qualities are: sunvas oversized material and transolair series 338.. Fabric qualities with a horizontal seam are: plain fabrics from the sunsilk, sunvas, sunbow collections and transolair series 339.. as well as from the Soltis Perform 92 series.

Owing to the small winding diameter, the rolling up characteristics and the resulting visual appearance of the cover, shadeplus covers made with vertical seams are not recommended.

Shadeplus / drop valance with radio-controlled motor RTS / io^{2) 3)}

Shadeplus fabric	fabric pattern no.	standard	optional	Awning fixture width	height	tailored cloth
sunvas	309–315	\checkmark	_	≤ 600 ≤ 600	160 210	LN QN
sunsilk	324 / 328 / 369	\checkmark	_	≤ 600 ≤ 600	160 210	LN QN
sunbow	411427	\checkmark	_	≤ 600 ≤ 600	100 210	LN QN
sunvas (250 cm)	31008, -09, -13, -16, -18, -27, -28, -31, -37, -57, -58, 31109, -14, -17	\checkmark	_	≤ 600	210	N
smart art	340	_	_			
perla FR	371 / 372	_	_			
perfotex	331 / 332	_	_			
transolair	338	_	\checkmark	≤600	210	N
transolair (120 cm)	339	_	\checkmark	≤ 600	210	QN
vuscreen Alu	317	_	\checkmark	≤ 600	160	N
Soltis Perform 92	92	_	\checkmark	≤ 490	210	QN
Serge 600	272		√	≤ 600	210	N

^{2) 433} MHz radio-controlled RTS motor powered by a sundrive solar panel, minimun fixture width 94 cm

N = seamless

LN = vertical panel joints, panel width approx.60 cm

QN = horizontal panel joint(s)

Dimensions in cm

³⁾ Only available in plain seamless fabrics (oversized, fabric width >120 cm) or in plains with a horizontal joint (fabric width 120 cm).

Dimensions and configuration options

Coupled unit, 2 fields

				Aw	ning fixture w	ridth		
		600 1)	700 1)	800	900	1000	1100	1200
Order dimensions		551 - 600	601 - 700	701 - 800	801 - 900	901 _ 1000	1001 - 1100	1101 - 1200
Overall Awnii	ng width	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10
	150							
	200							
	250							
	300							
н	350							
"	400							
	450							
	500							_
	550						_	_
	600						_	_

Coupled unit, 3 fields

							Awning	g fixture	width					
		600 ¹⁾	700 1)	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
Order dimen	sions	551	601	701	801	901	1001	1101	1201	1301	1401	1501	1601	1701
		600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
Overall Awni	ng width	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10
	150													
	200													
	250													
	300													
н	350													
	400													
	450													
	500												_	_
	550											_	_	_
	600											_	_	_

N.B.: The option of having telescopic posts in awnings with 3–5 fields is only available on request.

order dimension = extension Н

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dimensions in cm

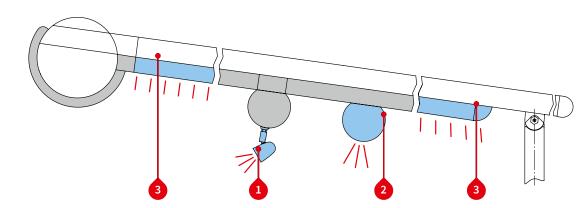
⁼ the cassette will be supplied in one piece as standard. If, for transportation or installation reasons, the cassette needs to be 1) split, please note this explicitly when ordering.

01 Lighting options

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Lighting options	Controls	standard	optional
1 LED-Spots attached to the lighting bar 1)	on/off switch	_	\checkmark
2 LED-Line in the lighting bar 1)	radio-controlled dimmer io 868 MHz	\checkmark	_
3 LED-Line in the guide tracks on both sides	radio-controlled dimmer RTS 433 MHz	_	\checkmark

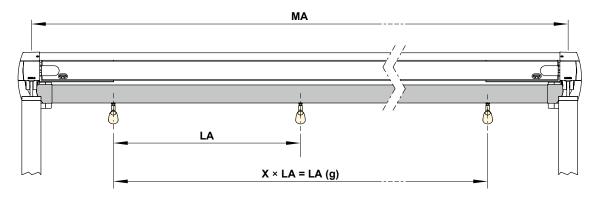
For combination possibilities please view section "Dimension overview lighting options"

1) LED-Line and LED-Spots cannot be combined with one another

Note on combination restriction: markilux format triangular version cannot be installed on a markilux pergola with LED-Line in the guide rails and/or cover support profile.

Distribution of the LED-Spots

1 LED Spots attached to the light bar



Awning fixture width	No. of spots	LA	LA (g)
150-250	3	65	130
251-300	3	98	196
301–350	3	98	196
351-400	4	98	294
401–450	4	98	294
451-500	5	98	392
501-550	5	98	392
551-600	6	98	490

dimensions in cm

1 LED-Spots attached to the light bar

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 h

2 including 3 LED-Line in the cover support tube and in the guide tracks

Technical specification

operating voltage	230 V, 50 Hz
power output per metre	10 W / m
light source	LED (12 V)
number of LEDs	120 units / m
number of transformers	1 unit
light temperature	warm white
IP protection class	IP 44
service life	approx. 15.000 h

= distance between the spots

= distance between the spotlights (total) MA

order dimension= awning fixture width = fixture width

01 Overview of dimensions

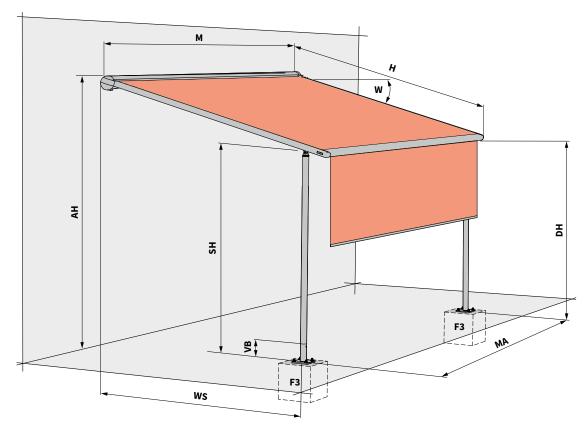
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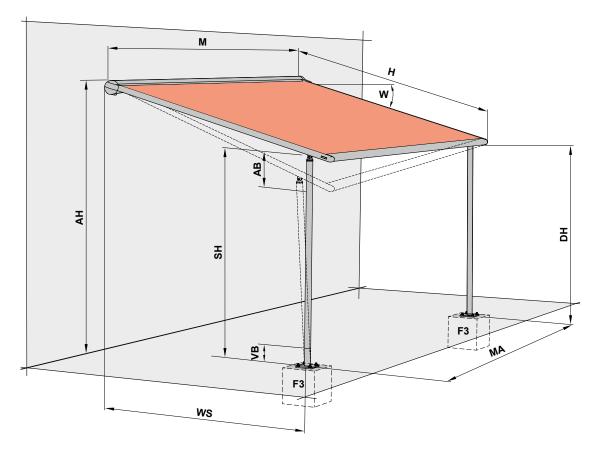
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pergola with fixed posts 1) – support post fixture to a concrete footing



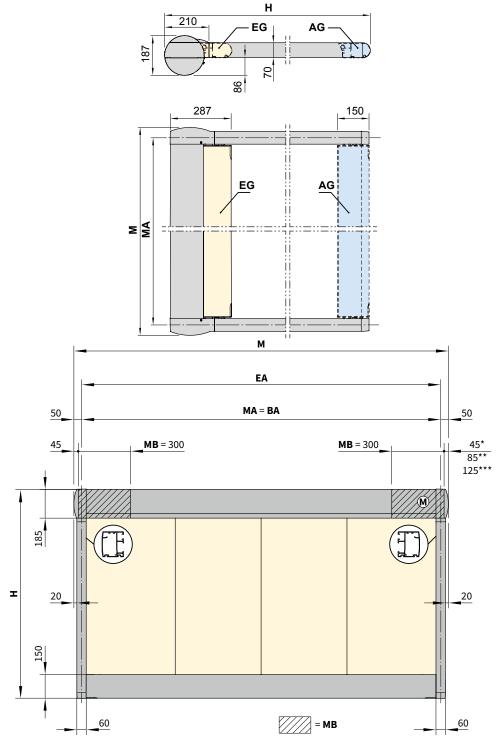
pergola with telescopic post 1) – support post fixture to a concrete footing

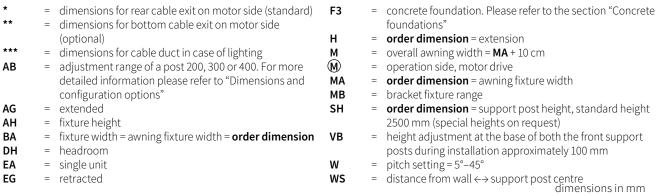


1) Optional with shadeplus

Overview of dimensions

Single unit





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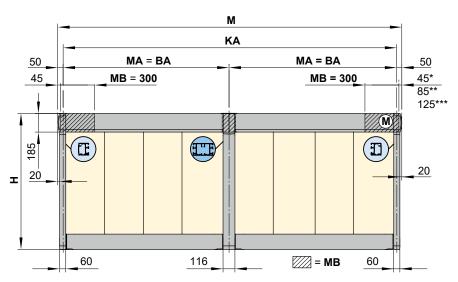
01 Overview of dimensions

Coupled awnings

M W W F3 F3 WS

Coupled unit, 2 fields, 1 motor

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= overall awning width = **MA** + 10 cm dimensions for rear cable exit on motor side (standard) dimensions for bottom cable exit on motor side (M)operation side, motor drive **order dimension** = awning fixture width (optional) MA bracket fixture range dimensions for cable duct in case of lighting MB order dimension = support post height, standard height ΑH fixture height SH 2500 mm (special heights on request ВА fixture width = awning fixture width = **order dimension** height adjustment at the base of both the front ٧B DH headroom support posts during installation approximately 100 mm single unit EΑ F3 concrete foundation. Please refer to the section W pitch setting = 5° - 45° "Concrete foundations" WS = distance from wall ←→ support post centre order dimension = extension ΚA coupled awning

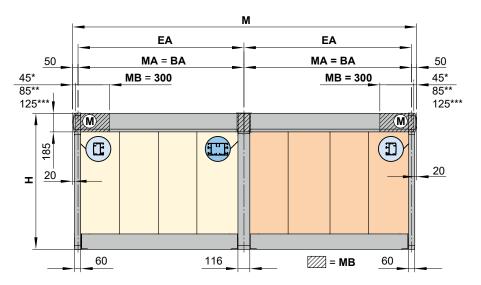
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dimensions in mm

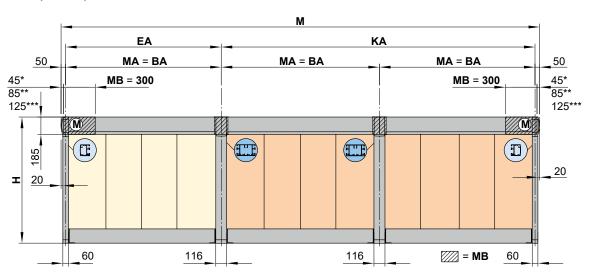
Pergola awning markilux pergola classic

Overview of dimensions

Coupled unit, 2 fields, 2 motors



Coupled unit, 3 fields, 2 motors



* = dimensions for rear cable exit on motor side (standard)

** = dimensions for bottom cable exit on motor side (optional)

*** = dimensions for cable duct in case of lighting

BA = fixture width = awning fixture width = **order dimension**

EA = single unit

H = order dimension = extension

KA = coupled awning

M = overall awning width = **MA** + 10 cm

M = operation side, motor drive

MA = order dimension = awning fixture width

MB = bracket fixture range

dimensions in mm

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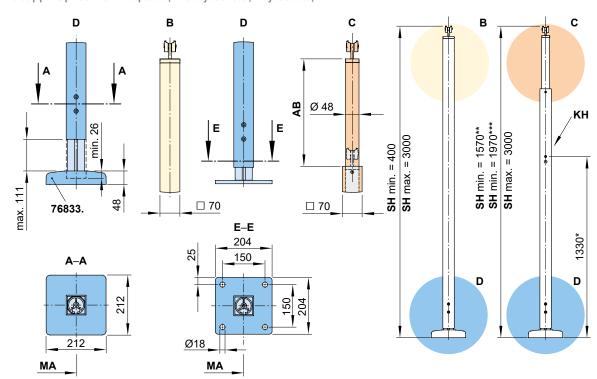
01 Post dimensions

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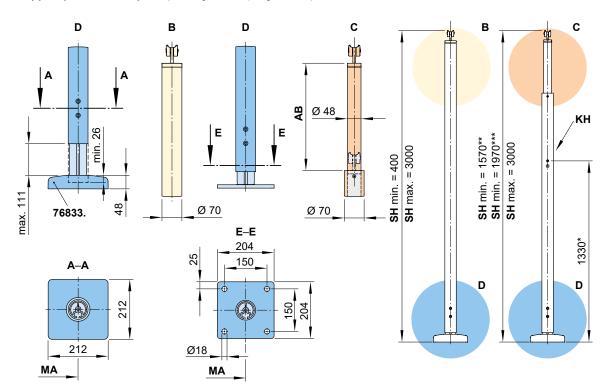
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Square support post with footplate (not adjustable / adjustable)



Round support post with footplate (not adjustable / adjustable)



* = dimensions at the standard height

*** = dimensions at manual operation

** = dimensions at motor operation

В

AB = adjustment range of a post 200, 300 or 400.
For more detailed information please refer to
"Dimensions and configuration options"

= support post without manual adjustment option

c = support post with manual adjustment option

D = height adjustment at the base of both of the front

support posts during installation approximately 100 mm

76833. = footplate cover post **KH** = winch handle socket

MA = order dimension= awning fixture width = fixture width
 SH = order dimension = support post height, standard height

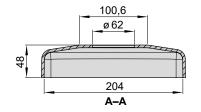
2500 mm (special heights on request)

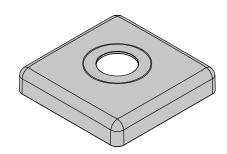
dimensions in mm

Pergola awning markilux pergola classic

Footplate cover

76833. <u>A</u>
212





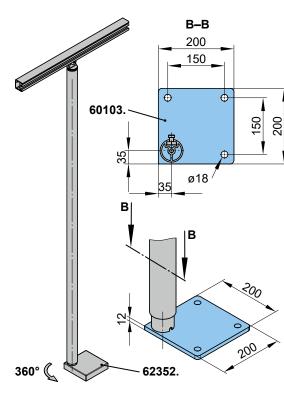
dimensions in mm

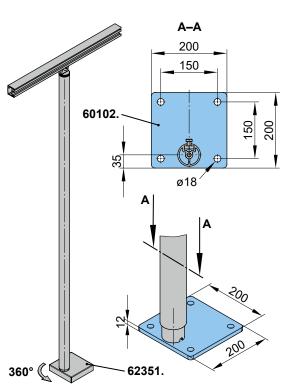
Post with an optional footplate

(Example: left-hand post)

Footplate for post position sideways in the middle

Footplate for post position in the corner





76833. = Standard footplate cover post

60102. = Footplate post position sideways in the middle

60103. = Footplate post position in the corner

62351. = Footplate cover post position sideways in the middle

62352. = Footplate post position in the corner

Dimensions in mm

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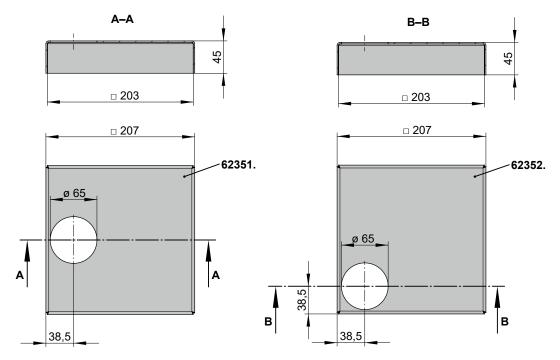
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■ **01** Footplate cover for optional footplate

Footplate cover for post position sideways in the middle

Footplate cover for post position in the corner



Dimensions in mm

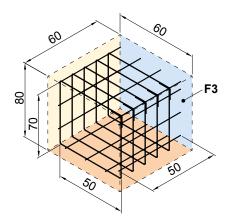
Concrete foundations

To be supplied on site:

Concrete foundations in compressive strength C25/30 (previously B25) with reinforcing mesh cage made of 6 pcs steel rebar \emptyset 6 mm.

F3

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The footplates F3 are to be fitted to the concrete footings using Fischer marine-grade stainless steel anchor bolts FAZ 10/30 aus A4 and washers certified to DIN 9021 (or equivalent).

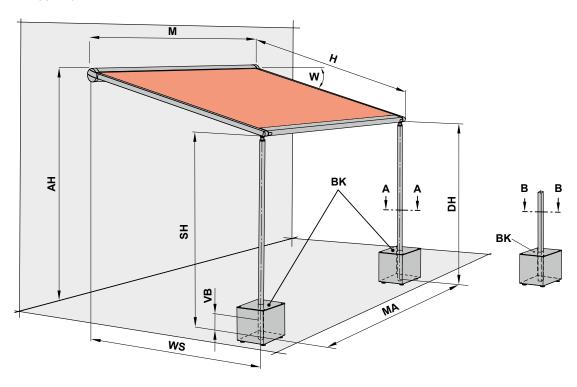
62351. = Footplate cover post position sideways in the middle

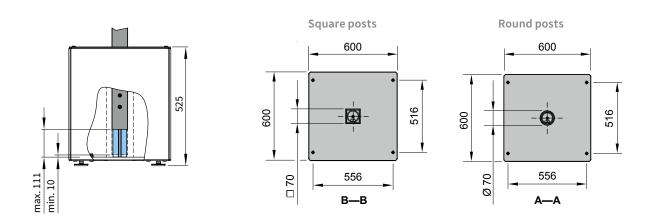
62352. = Footplate cover post position in the corner

dimensions in cm

Overview of dimensions

pergola - support posts with stabilisation boxes





On site, every stabilisation box must be filled with at least 150 kg of ballast.

AH = fixture height
BK = stabilisation box
DH = headroom
H = order dimension = extension
M = overall awning width = MA + 10 cm
MA = order dimension = blind fixture width = fixture width

SH = order dimension = post height VB = height adjustment at the base o

= height adjustment at the base of both the front support posts during installation approximately 100 mm

 \mathbf{W} = pitch setting = 5°-45°

WS = distance from wall ←→ support post centre

dimensions in mm

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Overview of dimensions 01

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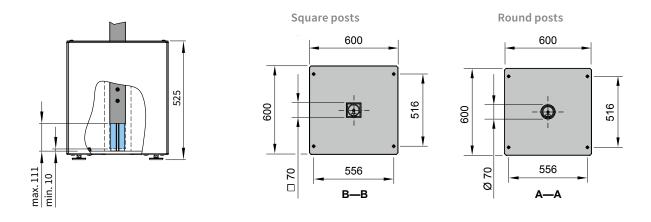
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pergola - support posts with ballast boxes, coupled unit

М w ¥ ద SH ΒK ВК BK BK 8 AM AM Ws



On site, every stabilisation box must be filled with at least 150 kg of ballast.

fixture height ΑH SH BK stabiliisation box VΒ DH headroom order dimension = extension Н W overall awning width = MA + 10 cm М

MA order dimension = blind fixture width = fixture width

order dimension = post height

height adjustment at the base of both the front support posts during installation approximately 100 mm

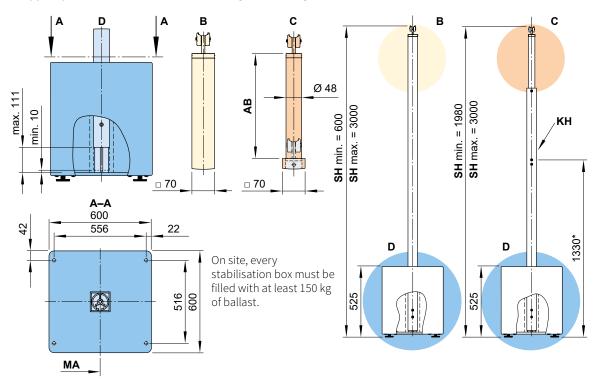
pitch setting = 5° - 45°

= distance from wall ←→ support post centre WS

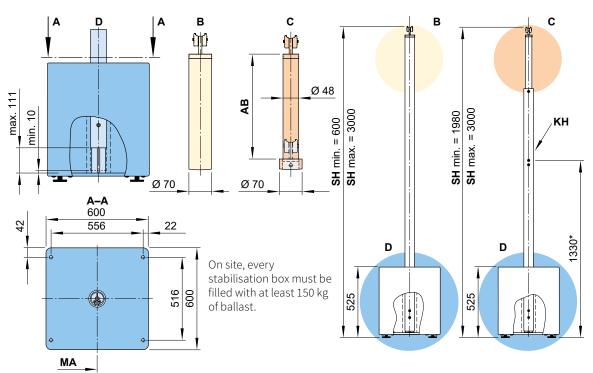
dimensions in mm

Post dimensions

Square support post with stabilisation box (not adjustable / adjustable)



Round support post with stabilisation box (not adjustable / adjustable)



= dimensions at the standard height

AB = adjustment range of a post 200, 300 or 400.
For more detailed information please refer to "Dimensions and configuration options"

B = support post without manual adjustment option
C = support post with manual adjustment option

D = height adjustment at the base of both of the front support posts during installation approx. 100 mm

KH = winch handle socket

MA = order dimension = blind fixture width = fixture width
SH = order dimension = support post height, standard

= **order dimension** = support post height, standard height 2500 mm (special heights on request)

dimensions in mm

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Fixtures, fittings and accessories

73803.



76063.

face fixture cassette bracket, left

pitch adjustment range 5°—45°



face fixture cassette bracket, right

pitch adjustment range 5°—45°

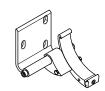


coupling cassette bracket, central

pitch adjustment range 5°—45°



pitch adjustment range 5°-45°



face fixture cassette bracket, wide, right

pitch adjustment range 5°-45°



top fixture cassette bracket right / left

pitch adjustment range 5°-20°



76232.



77058.

accessories for two



76231.

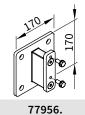
coupling cassette bracket top fixture

pitch adjustment range 5°—20°



767281

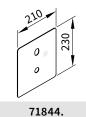
eaves fixture brackets



stand-off brackets for face fixture brackets 76063., 76064. and 76181.

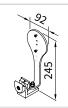
length min. 80 mm up to max. 300 mm

incl. insulating element



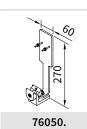
cover plate for installation with standoff bracket 77956. in the case of external insulation

210 × 230 mm



76723.

bracket for sun and/or wind sensor io



fixture bracket for light and / or wind and/or rain sensor



wall sealing profile incl. brush seal

by the metre

76385. and 704241.



for wall sealing profile

including 2 pan-head self-tapping screws

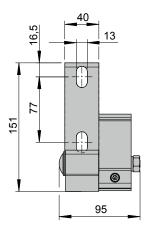
76386. and 2 × 735611

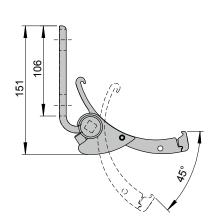
dimensions in mm

26

Face fixture

Face fixture cassette bracket, left





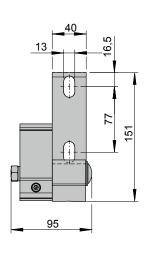


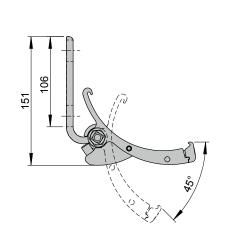
face fixture cassette bracket, left

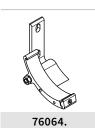
pitch adjustment range 5°—45°

76063.

Face fixture cassette bracket, right





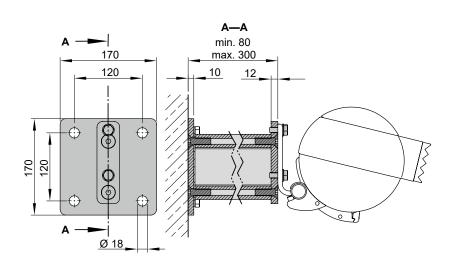


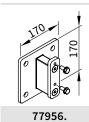
face fixture cassette bracket, right

13

pitch adjustment range 5°—45°

Face fixture using stand-off brackets





face fixture brackets 76063., 76064. and 76181.

stand-off brackets for

length min. 80 mm up to max. 300 mm

incl. insulating element

dimensions in mm

■ **01** Face fixture

04

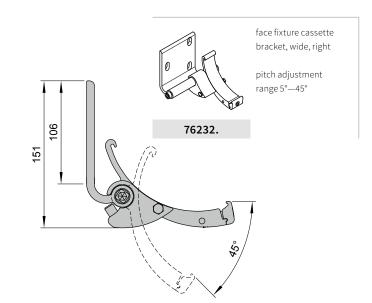
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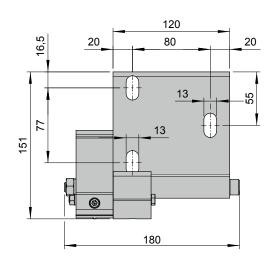
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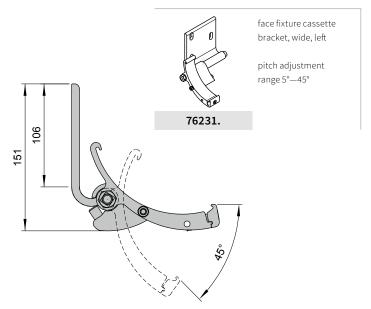
Face fixture cassette bracket, wide, right

120 20 80 20 9 13 13

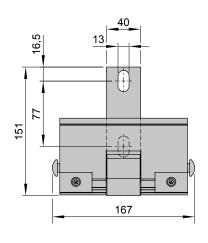


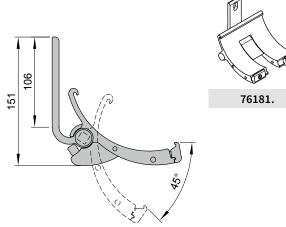
Face fixture cassette bracket, wide, left

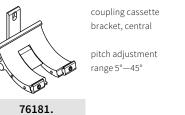




Coupling cassette bracket (central in coupled units)



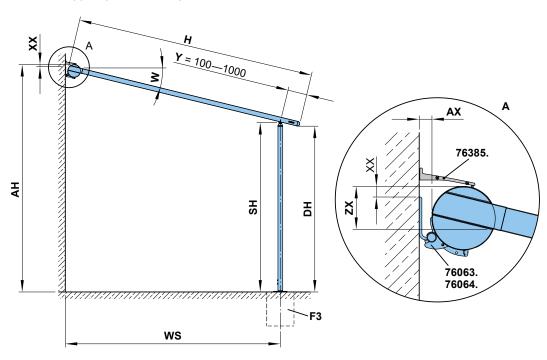




dimensions in mm

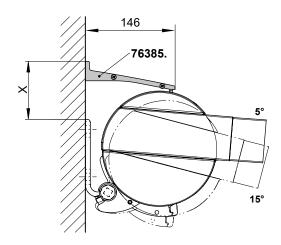
Face fixture

Dimension overview support post with footplate



W	AX	XX	ZX
5°	26	46	112
10°	32	38	120
15°	38	30	128
20°	44	22	135
25°	49	13	142
30°	54	4	149
35°	58	-5	156
40°	62	-15	161
45°	65	-24	167

Face fixture with wall sealing profile



W	Х
5°	95
10°	89
15°	91

76385. = wall sealing profile (standard width = awning fixture width (MA) + 58 mm)

76063. = face fixture cassette bracket, left **76064.** = face fixture cassette bracket, right **AH** = fixture height = SH + ZX + sin W × (H − Y) **AX** = distance from wall ←→ cassette **DH** = headroom = SH − sin W × Y

F3 = concrete foundation. Please refer to the section "Concrete foundations"

H = order dimension = extension

SH = **order dimension** = post height = $AH - ZX - \sin W \times (H - Y)$

W = pitch (measured from the horizontal)

AH = installation height

WS = distance from wall \leftrightarrow support post centre = cos W × (H – Y) + AX

Y = order dimension = the support post can be moved back by min. 100 and max. 1000 mm

XX = distance from the top edge of the fixture bracket to the top edge of the cassette (see table)

dimensions in mm

ZX = distance upper edge cassette – bottom edge of guide track (see table)

dimensions in mm

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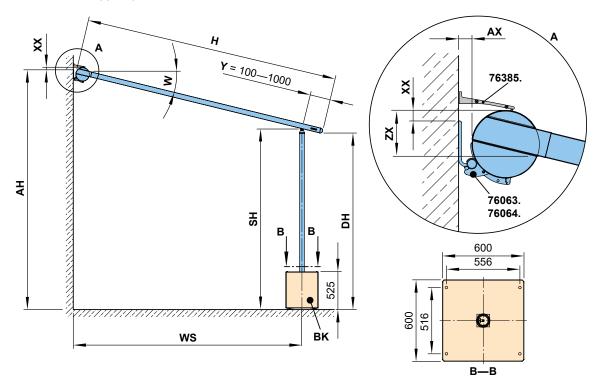
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■ **01** Face fixture

04

Dimension overview support post with stabilisation box



W	AX	XX	ZX
5°	26	46	112
10°	32	38	120
15°	38	30	128
20°	44	22	135
25°	49	13	142
30°	54	4	149
35°	58	-5	156
40°	62	-15	161
45°	65	-24	167

On site, every stabilisation box must be filled with at least 150 kg of ballast.

dimensions in mm

76385. = wall sealing profile (standard width = awning fixture width (**MA**) + 58 mm)

76063. = face fixture cassette bracket, left **76064.** = face fixture cassette bracket, right **AH** = fixture height = SH + ZX + sin W × (H − Y) **AX** = distance from wall ←→ cassette

AX = distance from wall ←→ cas BK = stabilisation box

DH = headroom = SH - sin W x Y
H = order dimension = extension

SH = **order dimension** = post height = $AH - ZX - \sin W \times (H - Y)$

 \mathbf{W} = pitch

WS = distance from wall \leftrightarrow support post centre = cos W × (H – Y) + AX

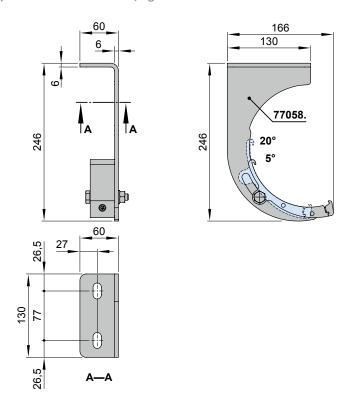
Y = order dimension = the support post can be moved back by min. 100 and max. 1000 mm XX = distance from the top edge of the fixture bracket to the top edge of the cassette (see table)

ZX = distance upper edge cassette – bottom edge of guide track (see table)

dimensions in mm

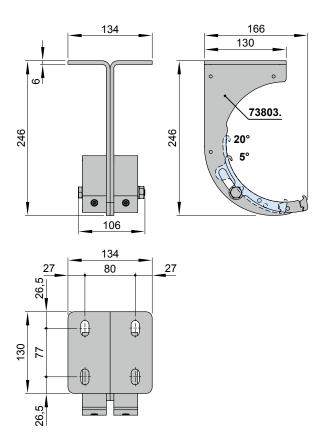
Top fixture

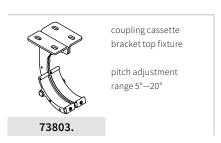
Top fixture cassette bracket, right and left



top fixture cassette bracket right / left pitch adjustment range 5°—20°

Top fixture coupling cassette bracket (central in coupled units)





dimensions in mm

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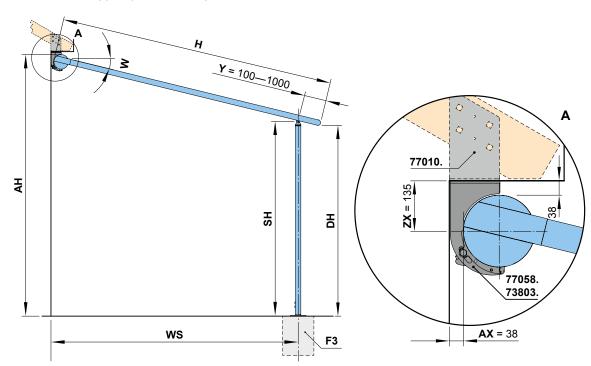
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■ **01** Top and eaves fixture

04

Dimension overview support post with footplate



73803. = coupling cassette bracket, top fixture, pitch adjustment range 5°–20°

77010. = eaves fixture bracket

77058. = top fixture cassette bracket right / left, pitch adjustment range 5° – 20°

AH = fixture height = SH + ZX + sin W × (H − Y) AX = distance from wall ←→ cassette DH = headroom = SH - sin W × Y

F3 = concrete foundation. Please refer to the section "Concrete foundations"

H = order dimension = extension

SH = order dimension = support post height, standard height 2500 mm (special heights on request) = AH – ZX – sin W × (H – Y)

W = pitch

WS = $\operatorname{distance} \operatorname{from} \operatorname{wall} \longleftrightarrow \operatorname{support} \operatorname{post} \operatorname{centre} = \operatorname{cos} \operatorname{W} \times (\operatorname{H} - \operatorname{Y}) + \operatorname{AX}$

Y = order dimension = the support post can be moved back by min. 100 and max. 1000 mm

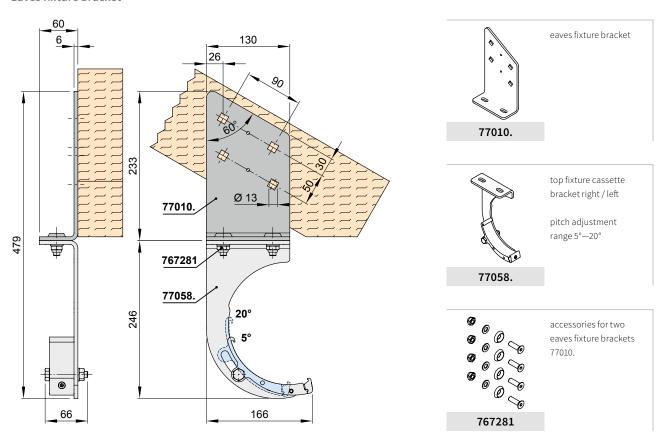
ZX = calculation value for fixture height AH (135 mm)

dimensions in mm

Pergola awning markilux pergola classic

Eaves fixture

Eaves fixture bracket



Telescopic, motor-driven post

- minimum post height: 1970 mm
- motor cable, black
- the LED-Line profiles are always fitted to all guide tracks of the markilux pergola to give a harmonious look
- the awning may only be retracted or extended if the front profile is horizontal, in other words, the post must not be in the lowered position
- the shadeplus (optional) may only be operated when the post is not in the lowered position. It may only be operated when the front profile is horizontal

Controls	standard	optional
hard-wired motor	\checkmark	_
radio receiver Somfy Slim Plug io (8271254)	_	√
radio receiver Universal Slim Receiver RTS Plug (8272148)	_	✓

Technical details Hard-wired motor

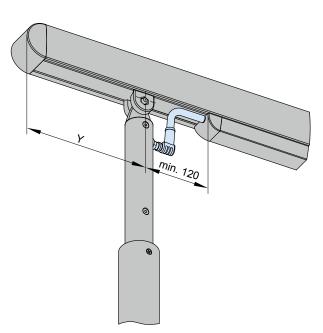
powersupply	230 V AC
poweroutput	110 W
protection class	IP 44

Note: In the case of a motorised post, the difference in measurement from the end of the profile cable duct / LED-Line to end of extension = Y + 120 mm = depending on the Y value between 22 cm and 112 cm (in the case of the LED-Line and standard post, the difference in measurement is = Y + 50 mm = depending on the Y value between 15 cm and 105 cm, please also take a look at Dimension overview lighting options).

Y = order dimension = distance from post centre to leading edge of front profile.

Dimensions: min. 100 bis max. 1000 mm (standard)

dimensions in mm



01 Overview of fixture dimensions, shadeplus

Magnetic gearbox operation

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markilux foldable crank handle

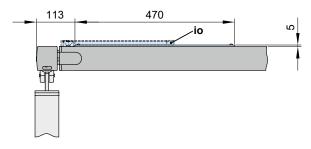
with magnetic gearbox attachment for manual operation of the drop valance lengths: standard 120 cm, optional 160 cm, from 160 cm up to 280 cm on request order no. 74271

* = extension when retracted

Please note! The shadeplus (optional) may only be operated when the post is not in the lowered position. It may only be operated when the front profile is horizontal.

sundrive

Solar module for radio-controlled drop valance operation

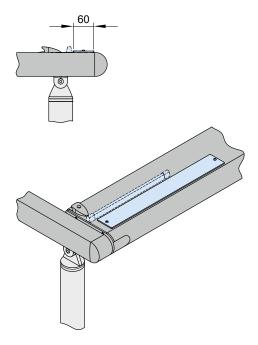


Technical data solar module

voltage	max. 21 V DC
current	max. 196 mA
power output	3,2 W
protection class	IP 44
battery capacity	2200 mAh

Technical details radio-controlled motor RTS 433 MHz / radio-controlled motor io 868 MHz

,	
power supply	12 V DC
power output	26 W
protection class	IP 44



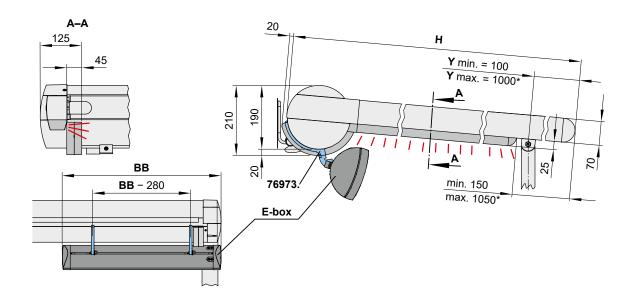
Note: A radio antenna (see illustration) is integrated with the type of operation radio-controlled motor io sundrive.

dimensions in mm

Pergola awning markilux pergola classic

Dimension overview with the various lighting options

Option 1: LED-Line in the guide tracks, electronic components in an E-box

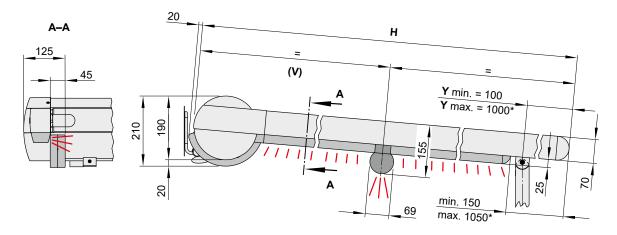


* = standard dimension 60585. = cassette bracket E-box H = order dimension = projection E-box = see E-box for the electronics

Y = order dimension = distance from post centre to leading edge of front profile

Option 2: LED-Line in the cover support tube, electronic components in the cover support tube

Option 3: LED-Line in the cover support tube and in the guide tracks, electronic components in the cover support tube



* = standard dimension

H = order dimension = projection

V = distance from the rear of the cassette to the centre of the cover support tube. Standard: centred (V = H ÷ 2).

Bespoke dimensions are available on request. Dimensions: min. = 700 mm, max. = 1590 mm

= **order dimension** = distance from post centre to leading edge of front profile

dimensions in mm

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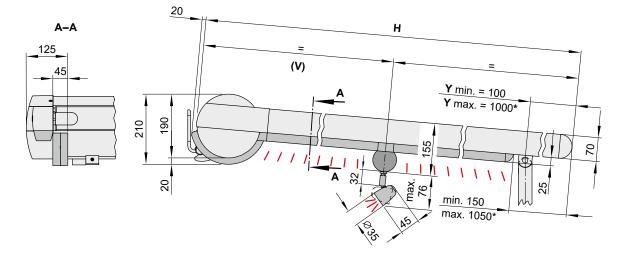
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■ **01** Dimension overview with the various lighting options

04

Option 4: LED-Spots in the cover support tube, electronic components in the cover support tube

Option 5: LED-Spots in the cover support tube and LED-Line in the guide tracks, electronic components in the cover support tube



* = standard dimension

H = **order dimension** = projection

V = distance from the rear of the cassette to the centre of the cover support tube. Standard: centred (V = H ÷ 2).

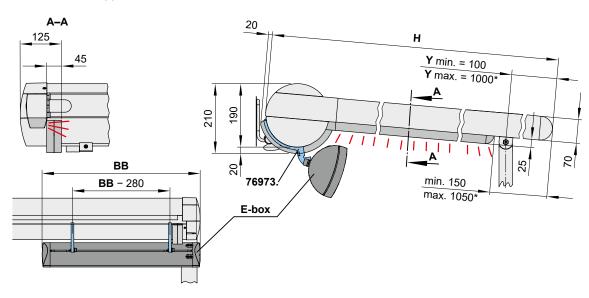
Bespoke dimensions are available on request. Dimensions: min. = 700 mm, max. = 1590 mm

= **order dimension** = distance from post centre to leading edge of front profile

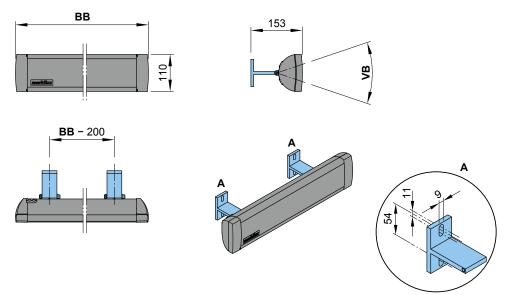
dimensions in mm

E-box for the electronics

In units without cover support tube



Dimension overview E-box



Minimum E-box dimensions

Wireless technology	433 RTS MHz		868 MHz io	
Extension H [cm]	< 330 cm	≥ 330 cm	< 330 cm	≥ 330 cm
Lighting options				
LED-Line attached to the Guide tracks	E-box M 71850. BB = 500 mm	E-box G 71873. BB = 700 mm	E-box M 71850. BB = 500 m	nm
for independent use	E-box I 71851.			

BB = to order

= standard dimension **60585.** = cassette bracket E-box

= order width ВВ E-box = in sizes M, G or I

order dimension = projection adjustment range Н

VΒ

order dimension = possible indent dimension of

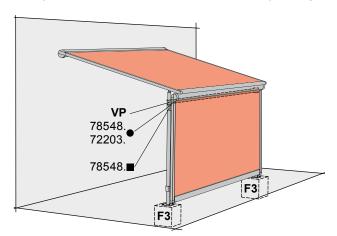
support post

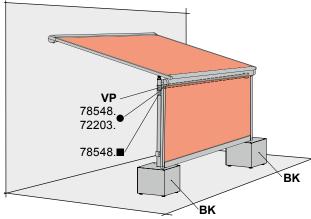
dimensions in mm

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Combination options

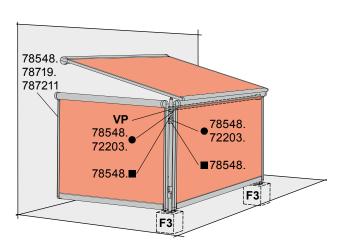
Example with markilux 776 tracfix / 876 tracfix (optionally with panorama window)

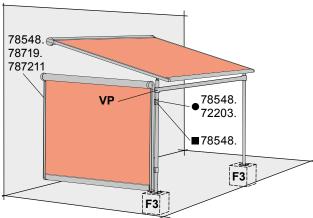




vertical cassette blind at the front

Vertical cassette blind at the front, support posts with stabilisation boxes





Installation of a vertical cassette blind both to the side

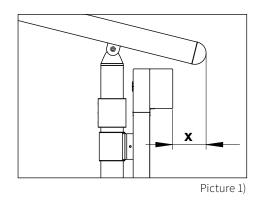
Installation of a vertical cassette blind at the side and obligatory cross member between support posts

N.B! A vertical roller blind may only be installed at the side or the front if a stabilizing profile (VP) has been fitted. A front vertical cassette blind must always be mounted under the guide tracks (see fig. 1)

The combination of markilux pergola classic with vertical cassette blinds is only permitted if two fixed posts are used.

Combination Possibilities

- markilux 790 at the side (cover optionally with angled top edge)
- markilux 790 at the front between support posts
- markilux pergola fitted to the markilux syncra
- additional combinations may be possible on request



72203. = post fixture guide track (round post)

78548. = flat track bracket

78719. = additional angled bracket for the bearing, gearbox and motor sides

787211 = accessories for two angled brackets

BK = stabilisation boxes (600 × 600 × 525 mm)

F3 = concrete footing

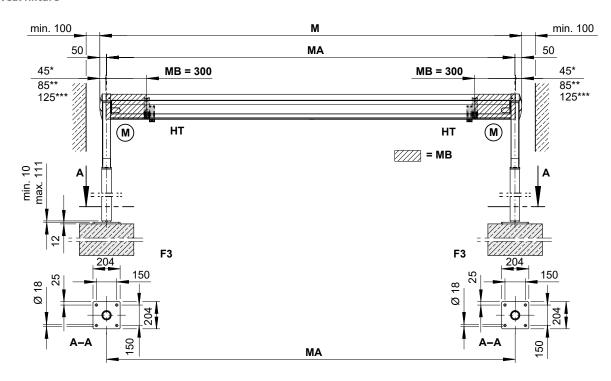
VP = cross member

= round post

= square post

Overview of dimensions

Reveal fixture



N.B.! In the case of reveal fixture a distance of at least 100 mm must be left free on each side of the awning.

* = dimensions for rear cable exit on motor side (standard)

** = dimensions for bottom cable exit on motor side (optional)

*** = dimensions for cable duct in case of lighting

F3 = concrete foundation. Please refer to the section "Concrete foundations"

HT = bracket

M = overall awning width = MA + 10 cm M = operation side, motor drive

MA = order dimension = blind fixture width = fixture width

MB = bracket fixture range

dimensions in mm

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01 Overview of dimensions

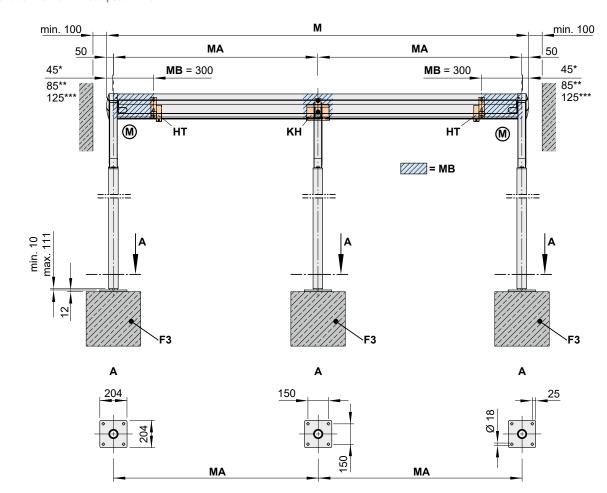
Reveal fixture of a coupled unit

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N.B.! In the case of reveal fixture a distance of at least 100 mm must be left free on each side of the awning.

* = dimensions for rear cable exit on motor side (standard)
 ** = dimensions for bottom cable exit on motor side (optional)

*** = dimensions for cable duct in case of lighting

F3 = concrete foundation. Please refer to the section "Concrete foundations"

HT = bracket

KH = coupling bracket

M = overall awning width = **MA** + 10 cm

M = operation side, motor drive

MA = order dimension = blind fixture width = fixture width

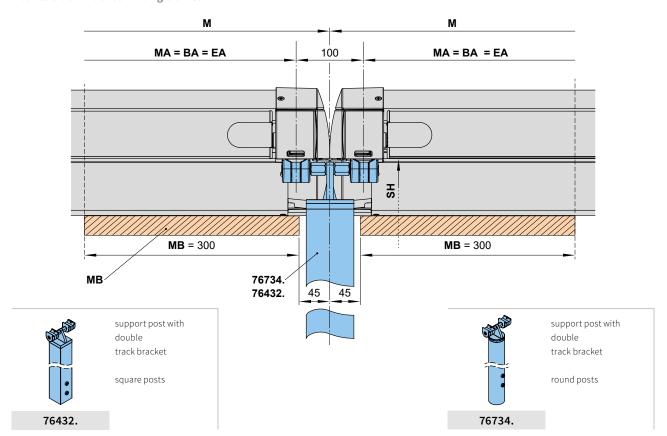
MB = bracket fixture range

dimensions in mm

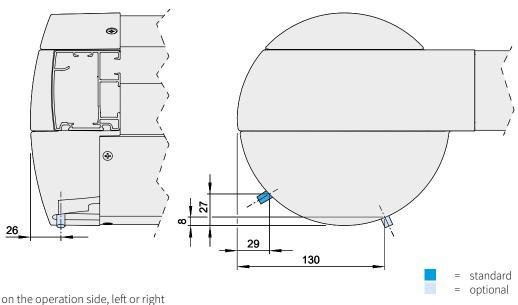
Pergola awning markilux pergola classic

Overview of dimensions

Double track bracket for single units



Motor cable exit point 1)



1) depending on the operation side, left or right

76734. = support post round with double track bracket support post round with double track bracket **76432.** =

= width between fixture points BA

EΑ = single unit

= overall awning width = **MA** + 10 cm М

order dimension = blind fixture width = fixture width MΑ

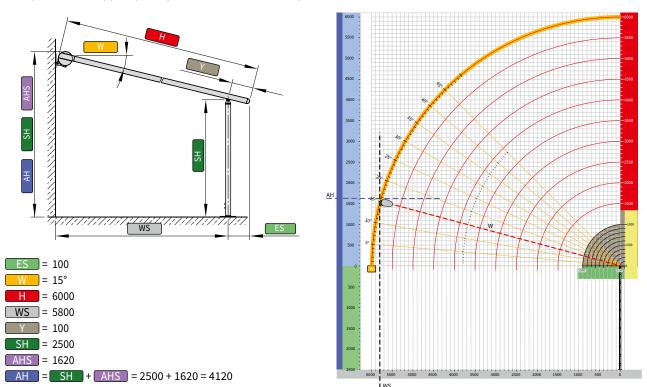
= bracket fixture range MB

dimensions in mm

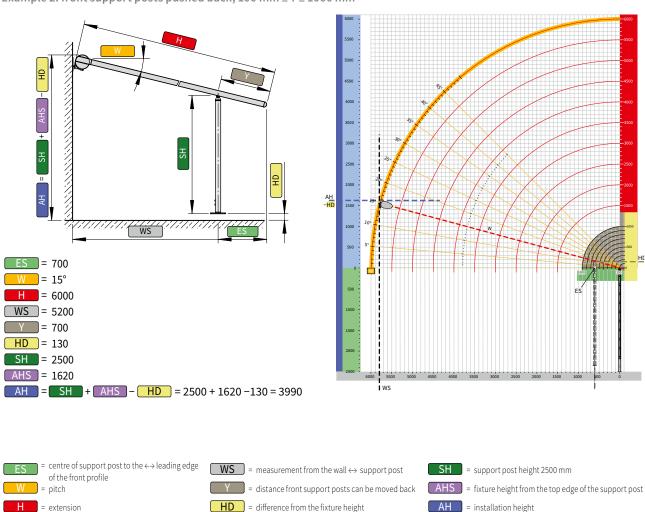
■ **01** Calculation of the approximate fixture height, examples

Example 1: front support posts pushed as far forward as possible, Y = 100 mm

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Example 2: front support posts pushed back, 100 mm ≤ Y ≤ 1000 mm

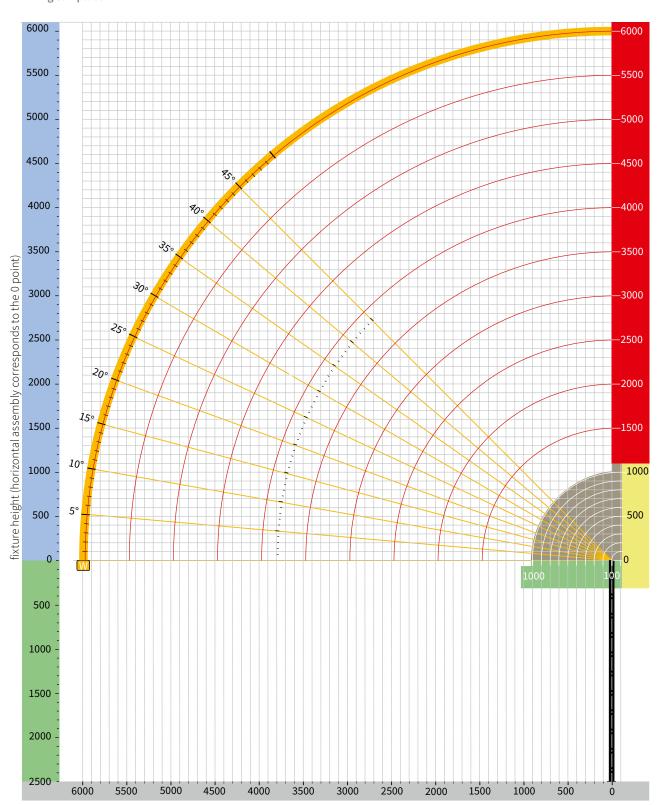


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dimensions in mm

Calculation of the approximate fixture height

Drawing template



N.B! An on-line tool to calculate the installation measurements can be found in the protected area of the website, pro.markilux.com.

dimensions in mm

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