

markilux pergola 110 / pergola 110 tracfix

round, square, functional – protection from the sun and inclement weather for large areas

The markilux 8800 conservatory awning system with slender support posts – optionally with tracfix system

rated to wind resistance class 3 (corresponds to Beaufort 6)

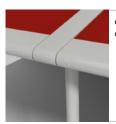




end cap and guide track



closed appearance thanks to the tracfix system – the tracfix system does away with the annoying gap between the cover and the guide track



coupled unit with coupling guide track



when fully extended the rounded front profile sits flush with the end of the guide tracks, giving the system a completely homogeneous appearance



coupled unit – up to 3 fields are available



shadeplus / drop valance gearbox with universal joint and stainless steel winding handle with bayonet fitting



optional: manual shadeplus / drop valance (stainless steel winding handle)

Design Features

the cassette profile, the guide tracks, the front profile and the front support posts complement one another perfectly and result in a large but nevertheless very elegant patio shading system

large scale awning system resting on slender posts with unobtrusive lateral guide tracks

for long-lasting attractiveness the awning is powder coated in the standard colours traffic white, metallic aluminium, grey brown or anthracite metallic

when fully extended the rounded front profile sits flush with the end of the guide tracks, giving the system a completely homogeneous appearance

Technical Specification

especially large extensions provide generous shade with high wind stability (wind resistance class 3)

simple installation: fixture of the cassette to the wall and the posts to a concrete footings by means of base plates

standard height of the front support posts 250 cm, other heights (from 36 cm to 250 cm) on request

the round, front support posts further stabilise the awning in addition to the fixture points on the façade – this reduces the pull-out forces on the façade

water drainage is guaranteed at a minimum pitch of 14° to the horizontal, the maximum possible pitch is 45°

Optional Accessories

coupled units up to 3 fields wide are available in the markilux pergola 110

vertical solar protection and more privacy is optionally available with the 230 cm high shadeplus / drop valance

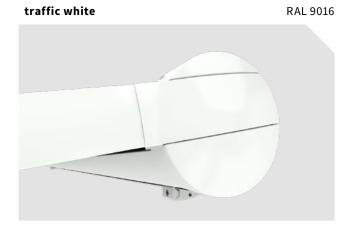
radio-controlled motor with markilux remote control – ergonomically shaped

polyester powder coating in non-standard colours is available to individual order (prices on request, longer lead time)

wall sealing profile to cover the gap between awning and wall; effective up to an awning pitch of 25°

closed appearance thanks to tracfix system (optional) without the annoying gap between the cover and the guide track

Frame colours



metallic aluminium

RAL 9006



grey brown, similar to

RAL 8019



anthracite metallic



 $Colours\ similar\ to\ those\ in\ the\ RAL\ chart.\ Colours\ may\ differ\ slightly\ from\ those\ depicted\ in\ both\ hue\ and\ finish.$

www.markilux.com Frame colours 331

Dimensions and configuration options

Single unit 1 field, 1 motor

													MA——I		
	150	200	250	300	350	400	450	500	550	600	(M		M	
	74 _ 150	151 	201 250	251 	301 350	351 - 400	401 — 450	451 500	501 _ 550	551 - 600	st	t	4	t.f	
M →	+ 10 cm														

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 	400							60	67	70	77
<u> </u>	450										
	500						-				
	550					_	_				
	600					_	_				

HT → 2 dimensions in cm



Operation / Drive

	standard	optional
hard-wired motor	✓	_
io radio controls	_	✓
silentec	_	1)
radio-controlled motor (433 MHz)	_	✓

1) only 1 field and 2 fields, 2 motors

Covers

	fabric range no.	standard	optional
sunsilk snc	324 / 328 / 369	✓	_
sunsilk perla FR	374	_	✓
transolair	338	_	✓
perfotex	332	√ 3)	_
sunvas snc	310 / 311 313 — 315	\checkmark	_
sunvas perla	370	_	✓

Dimensions and tolerances

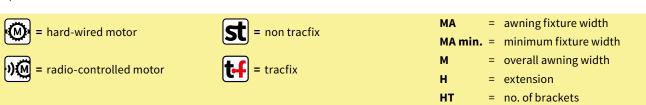
	width	extension
housing tolerances	+5/-10 mm	
awning cover width = awning fixture width	-90 mm ²⁾	
awning cover length		on request

2) standard specification; with tracfix on request

coupled units

	standard	optional
2 fields	_	✓
3 fields	_	V

3) not available in tracfix units



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Frame colours

		standard	optional
traffic white	RAL 9016		
metallic aluminium	RAL 9006		
grey brown, similar to	RAL 8019		
light ivory	RAL 1015		
anthracite metallic	5204		
stone grey metallic	5215		
off-white textured finish	5233		
Havanna brown textured	finish 5229		
non-standard powder-coa	ated finish		

Miscellaneous

	standard	optional
shadeplus / drop valance	_	1)
wall sealing profile	-	✓ ²⁾
tracfix	_	V
light and wind sensor	_	V

1) height: 230 cm

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2) possible up to a maximum awning pitch of 15°

Holes have been punched in the internal gutter area of the front profile at regular intervals to improve the water drainage from the front profile. This may lead to very slight indentations in the front profile at those points; as these are unavoidable, they do not form the basis for complaint.

Additional information

The width of the awning cover is always less than that of the awning.

Pitch adjustment range: from 5° to 45° (to the horizontal).

Water drainage can only be guaranteed at a minimum awning pitch of 14° to the horizontal. If the markilux pergola is to be used as rain protection and the pitch is less than 14°, we recommend the markilux pergola 210 be used.

Definition of fixture width/order width: The fixture width is the measurement centre to centre from guide track to guide track. The overall width of the cassette is 100 mm greater than the fixture width of the awning. The tolerance in the fixture width is + 0 mm / - 20 mm.

Definition of the extension / order extension: The extension is measured with the awning extended from the back of the cassette to the leading edge of the front profile. The tolerance in the extension is + 40 mm / - 40 mm.

Definition of Shadeplus drop: The Shadeplus drop is measured from the bottom edge of the Shadeplus profile to the bottom edge of the valance profile. Due to fabric thickness tolerances the actual drop may be shorter than the nominal drop by up to 5 cm.

Definition of operating side: the operating side is always given as if standing in front of the awning (right or left).

N.B! In the case of continuous motor usage, the motor may stop after 3 to 4 minutes to prevent overheating.

N.B! In the case of a bank of awnings operating simultaneously, the same speed of rotation of the motors cannot be guaranteed because of the internal tolerances of the motors.

The rate of extension of a single unit with hard-wired motor is approximately 11 seconds per metre.

The front support posts are made of aluminium, standard height 2500 mm, other heights on request.

Colours similar to those in the RAL chart. Colours may differ slightly from those depicted in both hue and finish.

Dimensions and configuration options

Coupled unit, 2 fields, 1 or 2 motors

		MA THE										
	600	700	800	900	1000	1100	1200					
	551	601	701	801	901	1001	1101					
	600	700	800	900	1000	1100	1200					
M →		+ 10 cm										

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	200				
	250				
₹Œ	300				
	350				
	400				
<u> </u>	450				
	500				_
	550			ı	_
	600			_	_



dimensions in cm

Coupled unit, 3 fields, 2 motors

	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
	551 600	601 700	701 800	801 900	901 1000	1001 1100	1101 1200	1201 1300	1301 1400	1401 1500	1501 1600	1601 1700	1701 1800
M →		+ 10 cm											

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	200								
	250								
T (T	300								
	350								
	400								
│ <u>↓</u> ↓█	450								
	500							_	_
	550						_	_	_
	600						_	_	_



dimensions in cm



MA = awning fixture width

M = overall awning width

H = extension

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Additional information

Coupled pergolas are available up to a max. width of 3 single units (3 fields) sided by side.

In the case of coupled units with 2 or 3 fields and 2 motors, unequal running speeds due to tolerances within the motors may occur.

In the case of coupled units with fields of differing sizes smooth rolling-up behaviour of the covers cannot be guaranteed. This has no bearing on the functionality or the durability of either the cover or the pergola itself.

The matrices above assume equal field widths in coupled awnings.

In the case of coupled units up to a fixture width of 700 cm the **cassette will be supplied in one piece**. If, for reasons of transportation or fixture, the cassette needs to be split, please note this explicitly when ordering.

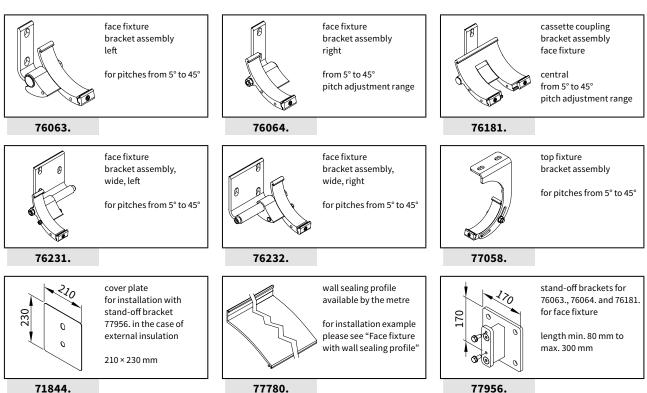
The rate of extension of coupled units with 2 fields, 1 Motor and 3 fields, 2 motors is approximately 16 to 18 seconds per metre. In the case of coupled units with 2 fields, 2 motors extension takes as long as with single awnings i.e. approximately 12 to 14 seconds per metre. In the case of coupled units with 3 fields, 2 motors the coupled unit will run more slowly than the single unit.

In the case of 2 motors, the individual motors can be operated independently of one another.

Maximum awning size: please refer to the table for single units! Please also refer to the matrix for single units, for the optional tracfix system!

If coupled pergolas are fitted into a recess or reveal the overall width of the coupled awning must be at least 6 cm less than the width of the opening to allow the pergola to be coupled.

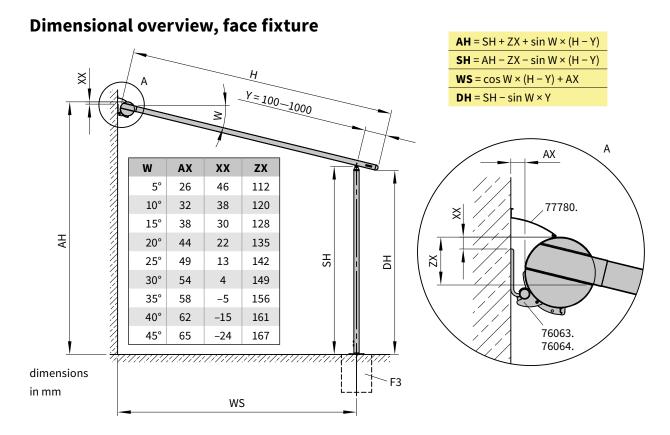
Fixtures, fittings and accessories



. = insert RAL colour code no

Water drainage can only be guaranteed at a minimum awning pitch of 14° to the horizontal.

In contrast to the markilux 110, one of the front support posts of the markilux 210 can be lowered. This is an advantage especially when the installation height is restricted and ensures water drainage at a minimum basic pitch of at least 7°. By lowering the height of one support post by between 20 cm and 40 cm (depends on the awning size) water drainage can be guaranteed in rain.



A concrete footing (F3) has to be laid on site in accordance with the technical drawing for each support post:

- construct a base of armoured concrete with a compressive strength of C25/30 (previously known as B25) using 6 pieces of shaped steel rebar matting, Ø 6 mm
- the front base plates (F3) are to be fixed using Fischer stainless steel anchor bolts FAZ II 10/30 and washers certified to DIN 9021 (or equivalent)

Н = extension AH= fixture height

W = pitch

WS = distance from wall to support post centre

SH = support post height, standard height 2500 mm (special heights on request)

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

DH = headroom

AX= calculation value for the distance wall to support post centre WS (see table)

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

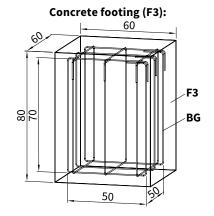
ZX = calculation value for installation height AH (see table)

77780. = wall sealing profile (optional), effective up to a maximum awning pitch of 15°

76063. = face fixture cassette bracket assembly, left 76064. = face fixture cassette bracket assembly, right

BG = armour matting basket made of 6 pieces of steel rebar, Ø 6 mm

F3 = concrete footing



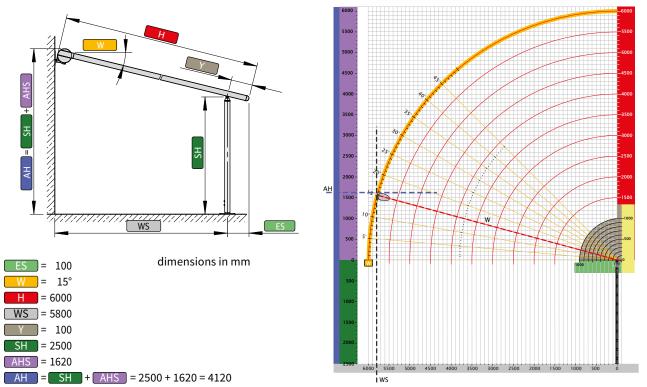
dimensions in cm

Installation dimensions

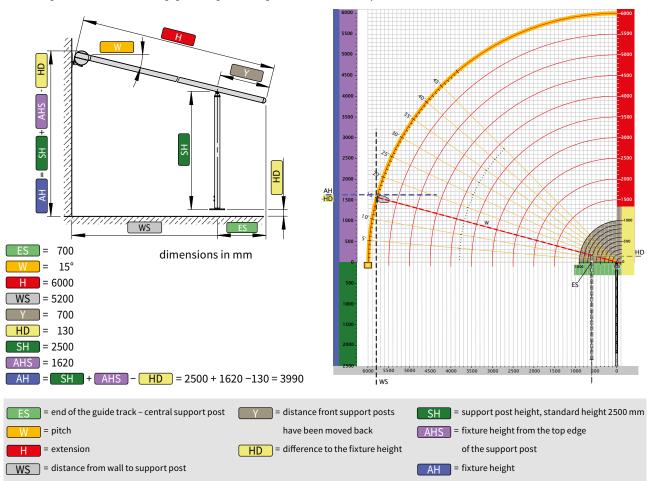
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Calculation of the approximate fixture height, examples

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

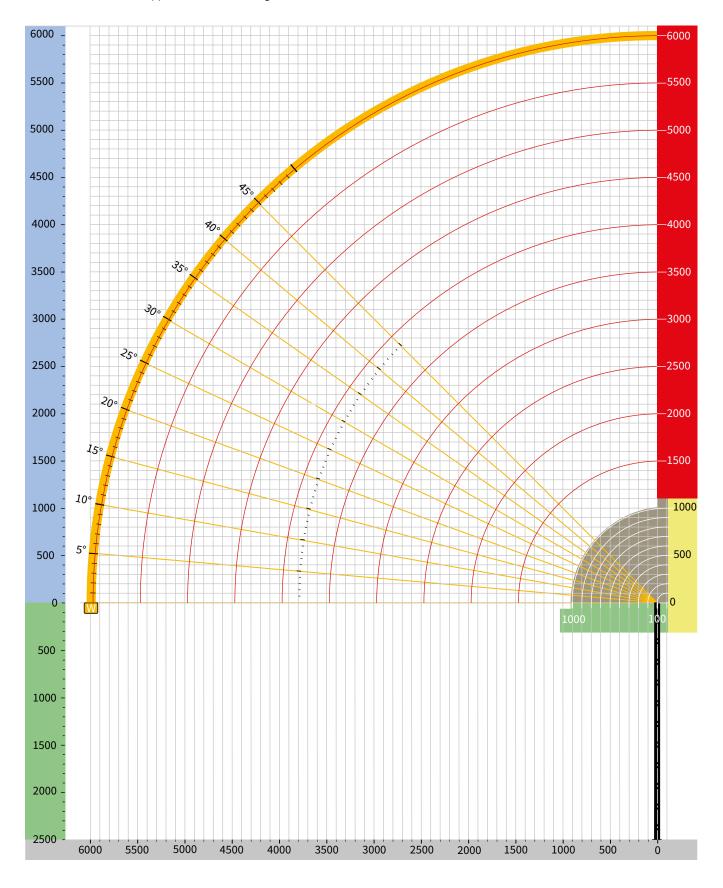


Example 2: front support posts pushed back, Y ≥ 100 mm and ≤ 1000 mm



Calculation graph, installation dimensions

calculation of the approximate fixture height



dimensions in mm

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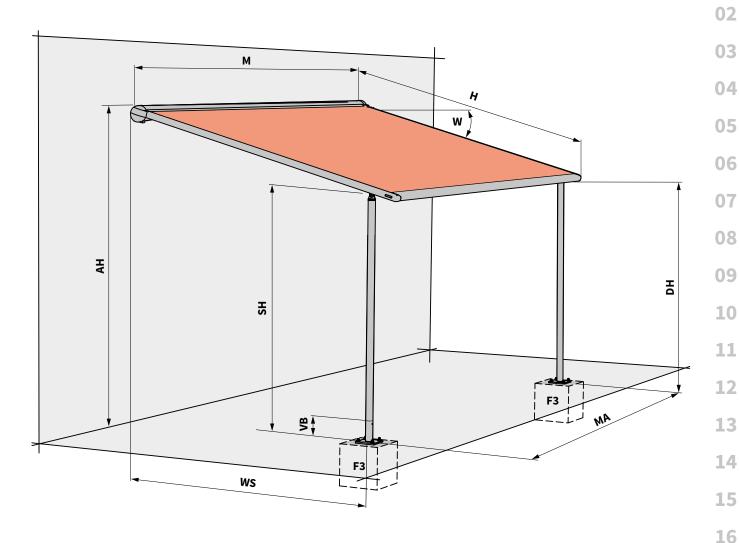
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Installation dimensions

Single unit 1 field, 1 motor



M = overall awning width = MA + 10 cm

MA = awning fixture width = order width

H = extension

AH = fixture height

SH = support post height, standard height 2500 mm (special heights on request)

DH = headroom

W = awning pitch = 5° to 45°

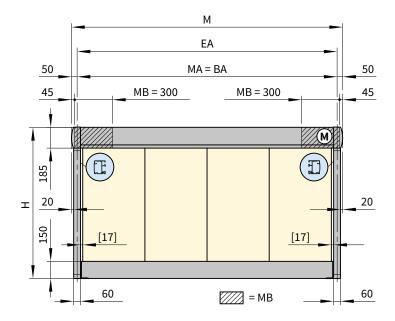
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VB = height adjustment 10 cm

WS = distance from wall to support post

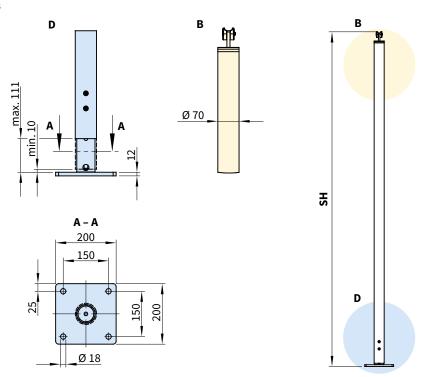
F3 = concrete footings (refer to section "Dimensional overview, face fixture")

Single unit 1 field, 1 motor



dimensions in mm

Front support posts



dimensions in mm

M = overall awning width = MA + 10 cmMA = awning fixture width = order width

H = extension

SH = support post height, standard height 2500 mm (special heights on request)

EA = single unit

BA = fixture width = awning fixture width = order width

MB = bracket fixture range

(M) = operation side, motor drive

[...] = the cover gap dimension on non-tracfix units; there is no cover gap in units with the tracfix system

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

B = support post dimensions

Coupled units

M = overall awning width = MA + 10 cm

MA = awning fixture width = order width

H = extension

AH = fixture height

SH = standard support post height 2500 mm,

(bespoke heights on request)

DH = headroom

W = awning pitch = 5° to 45°

VB = height adjustment 10 cm

WS = distance from wall to support post

F3 = concrete foundation

(see dimensional overview, face fixture)

EA = single unit

KA = coupled unit

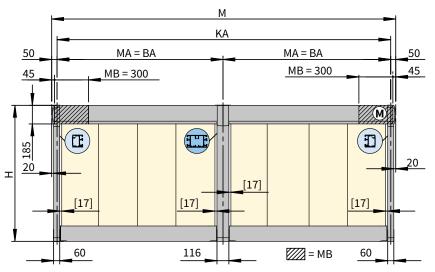
BA = fixture width = awning fixture width = order width

MB = bracket fixture range

M = operation side, motor drive

...] = the cover gap dimension on non-tracfix units; there is no cover gap in units with the tracfix system

Coupled units, 2 fields, 1 motor

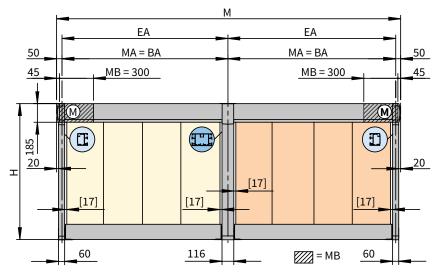


dimensions in mm

dimensions in mm

Coupled units 2 fields, 2 motors

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M H W W F3

Installation dimensions, coupled units 341

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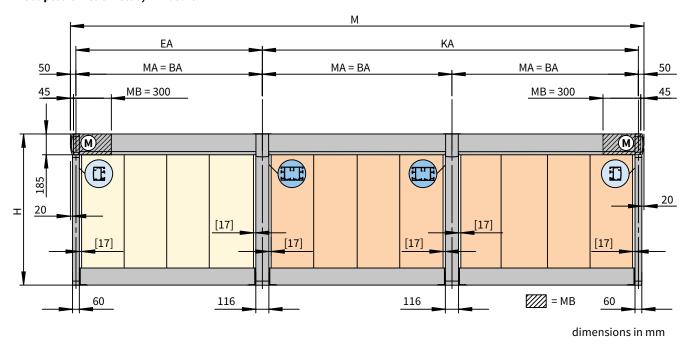
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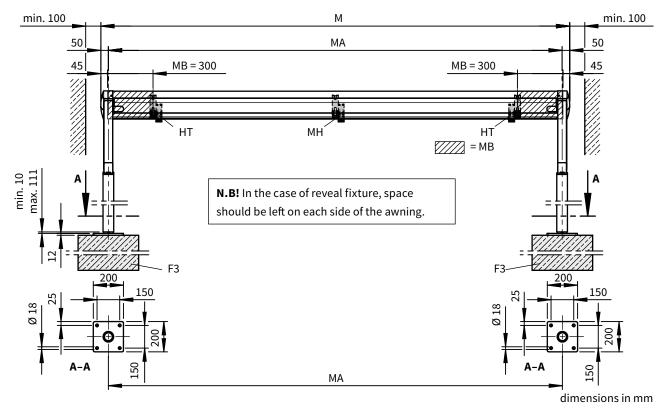
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Coupled units 3 fields, 2 motors



Face fixture bracket range / dimensions in the case of reveal fixture (single and coupled units)



M = overall awning width = MA + 10 cm

MA = awning fixture width = order width

H = extension

EA = single unit

KA = coupled unit

BA = fixture width = awning fixture width = order width

MB = bracket fixture range

M = operation side, motor drive

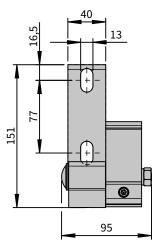
[...] = the cover gap dimension in standard units; there is no cover gap in units with the tracfix system

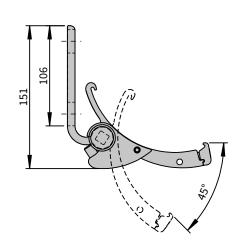
HT = bracket type

MH = from an awning width of 601 cm an additional face fixture bracket (76063.) is required

F3 = concrete footing (see dimensional overview, face fixture)

Face fixture cassette bracket assembly, left

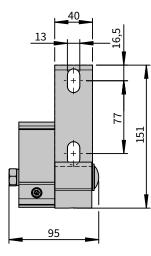


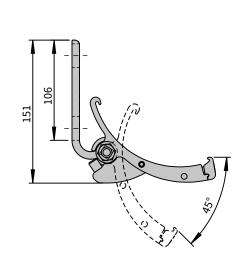




dimensions in mm

 $\label{eq:Face fixture cassette bracket assembly, right} \textbf{Face fixture cassette bracket assembly, right}$

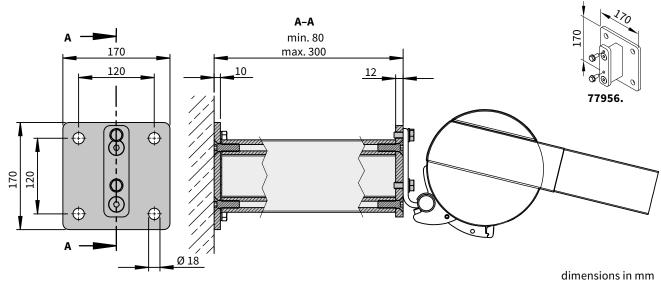




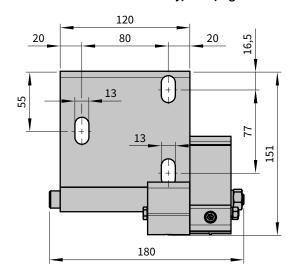


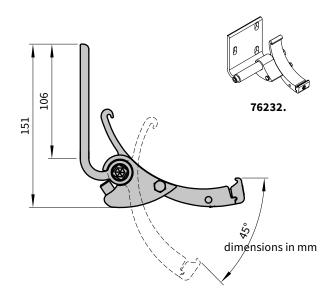
dimensions in mm

Face fixture with stand-off brackets

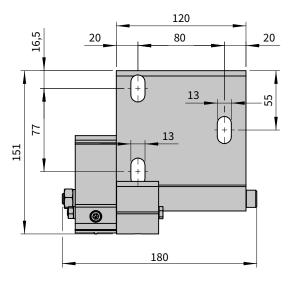


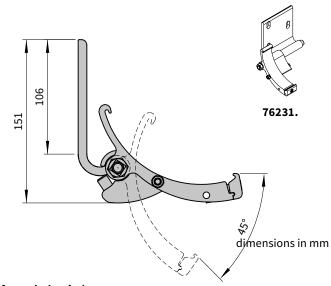
Face fixture bracket assembly, wide, right



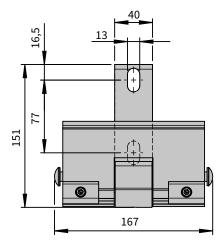


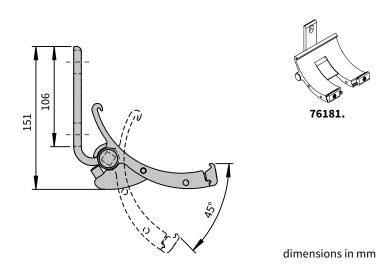
Face fixture bracket assembly, wide, left



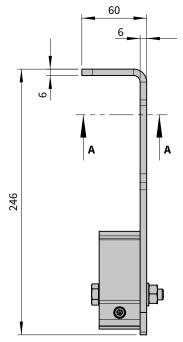


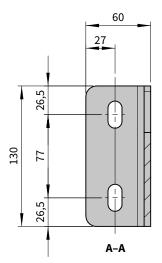
Cassette coupling bracket assembly (central in the case of coupled units)

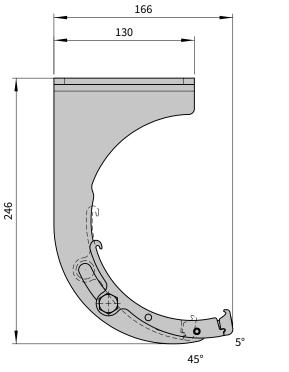


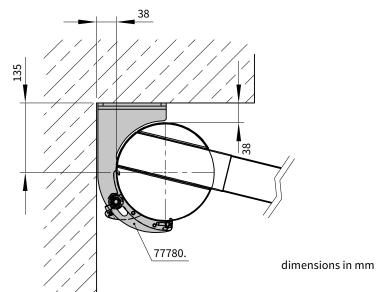


Top fixture bracket assembly





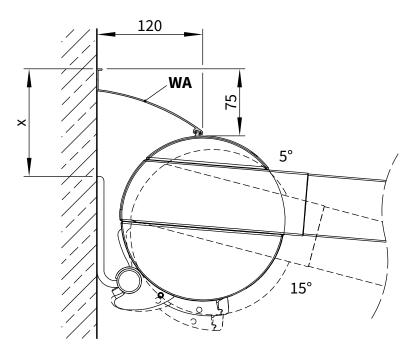






77058.

Face fixture with wall sealing profile



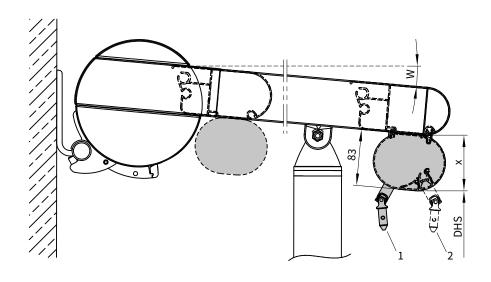
w	х
5°	122
10°	114
15°	105

dimensions in mm

WA = wall sealing profile

W = pitch (measured from the horizontal)

Shadeplus (optional) operation



w	х
5°	82
10°	81
15°	80
20°	78
25°	75
30°	72
35°	68
40°	63
45°	58

dimensions in mm

1 = shadeplus operation from the rear

2 = shadeplus operation from the front (optional)

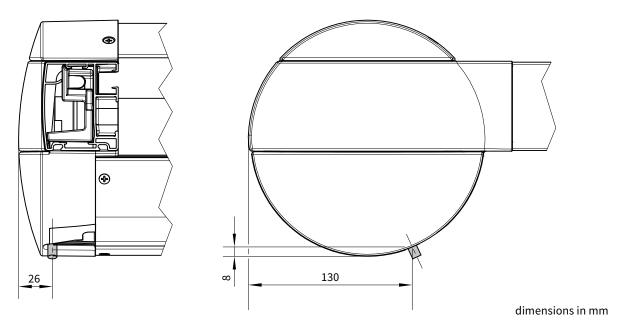
DH = headroom (without shadeplus)

DHS = headroom with shadeplus = DH - x

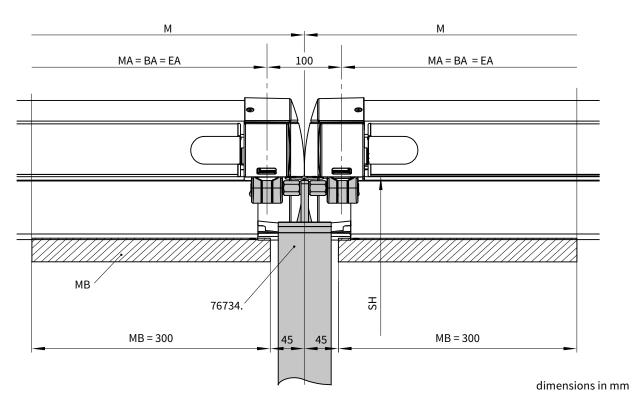
W = pitch (measured from the horizontal)

Installation dimensions

Cable exit point in the case of motor-driven units



Support post with double track bracket for two single guide tracks



M = overall awning width = MA + 10 cm

MA = awning fixture width = width between fixing points

BA = fixture width = awning fixture width

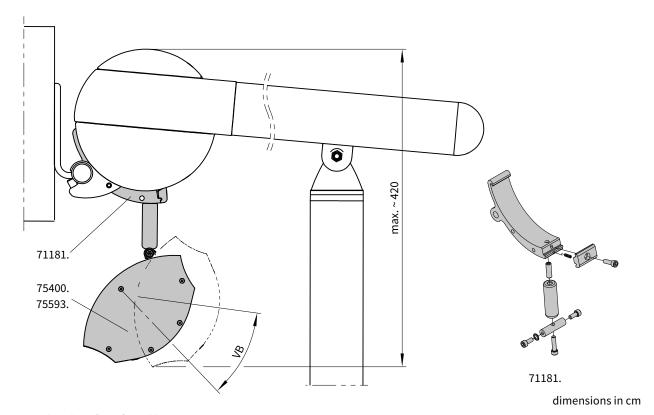
EA = single unit

MB = bracket fixture range
SH = support post height

76734. = support post with double track bracket

Installation dimensions 347

Brackets for the markilux infrared heater



71181. = brackets for infrared heaters

75400. = infrared heater 1400 W

75593. = infrared heater 2000 W

VB = adjustment range