



Pergola awning

markilux pergola cubic

Sun and wet weather protection for large areas -
created in a clean and timeless design.

Product characteristics

Wind resistance class 3

Beaufort 6 → 38–48 km/h → 10.5–13.4 m/s → 24–30 mph



1 manufacture with square or round posts



2 adjustable post ¹⁾ manual or motor-driven



3 shadeplus, during extension ¹⁾



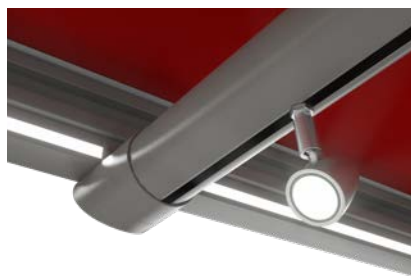
4 solar module sundrive, radio-controlled drop valance operation ¹⁾



LED-Line fitted to the guide track and cover support tube ¹⁾



combination of LED-Line and LED-Spots ¹⁾



support post with stabilisation box ¹⁾



5 footplate cover standard



6 wall sealing profile ¹⁾



¹⁾ Optional accessories

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 operated manually or solar driven by radio remote control
- various lighting combinations are available: lighting 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° (depending on the extension)
- 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: 73–600 cm in width, maximum extension 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, angular, height × depth 160 mm × 200 mm
- angular guide tracks, width × height 60 mm × 70 mm (coupling guide track 116 × 70 mm)
- front profile rounded at the front, depth × height 150 mm × 70 mm

End caps

- the cassette end caps with opening for guide tracks are made of die-cast aluminium, powder coated
- the maintenance covers on the cassette are made of die-cast aluminium, powder coated
- guide track end caps made of die-cast aluminium, powder coated

Fixture brackets and support posts

- extruded aluminium, powder coated
- Cassette holder: wall mounting, ceiling mounting, rafter mounting
- support post round Ø 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 × 600 mm × 525 mm (wxdxh), for versatile installation is available

Note: Additional information and accessory options can be found in the chapters "General information" and "markilux Accessories" in the sales manual "Designer Awnings for Conservatories, Glass Canopies and Windows".

Frame colours

markilux frame colours without surcharge

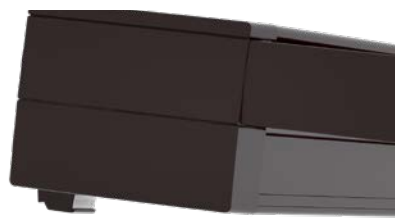
traffic white, RAL 9016



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

Dimensions and configuration options

Single unit




Order dimensions Overall Awning width		Awning fixture width									Minimum fixture width		
		150 ¹⁾	200 ¹⁾	250 ¹⁾	300 ¹⁾	350	400	450	500	550	600	Hard-wired motor	Radio-controlled motor
		73 ²⁾	151	201	251	301	351	401	451	501	551		
		150	200	250	300	350	400	450	500	550	600		
		+ 10											
H	150 ¹⁾											73 ²⁾	83 ²⁾
	200 ¹⁾												
	250												
	300												
	350												
	400												
	450												
	500												
	550												
	600												

dimensions in cm

1) = only pergola with fixed posts

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

H = order dimension = extension

 = optionally available with 20 cm telescopic post
 = optionally available with 30 cm telescopic post
 = optionally available with 40 cm telescopic post

The minimum pitch that will ensure water drainage

	Extension			
	≤ 250 cm	≥ 251 ≤ 350 cm	≥ 351 ≤ 450 cm	≥ 451 cm
Unit with fixed posts, without shadeplus	14°	14°	14°	14°
Unit with fixed posts, with shadeplus	17°	17°	17°	17°
Unit with telescopic post, without / with shadeplus	-	8°	9°	10°

Operation

	standard	optional
crank handle	—	—
hard-wired motor	✓	—
silentec motor (optionally with an external io / RTS receiver)	—	✓
radio-controlled motor io, 868 MHz	—	✓
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) 4)}	300..–315..	✓	—
sunsilk ^{1) 4)}	324.. / 328.. / 369..	✓	—
sunbow ^{1) 4)}	411..–427..	✓	—
smart art ¹⁾	340..	—	✓
perla FR ¹⁾	371.. / 372..	—	✓
perfortex ²⁾	331.. / 332..	✓	—
Soltis Perform 92 ³⁾	92..	—	✓

Standard fabric panel widths

1) 60 cm 2) 120 cm 3) 88,5 cm

4) 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 behaviour 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 chosen)		
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	—	✓
radio-controlled motor, 433 MHz, RTS with sundrive	—	✓
fabric pattern sunvas / sunsilk / sunbow / transolair / vuscreen Alu / Soltis Perform 92 / glass fibre screen Serge 600		

1) Shadeplus cover is narrower than the awning cover

2) In the case of coupled awnings, available for all fields only

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⁾
LED-Line in the cassette ³⁾
infrared heater 2500 W
infrared heater 2500 W with integrated radio-controlled receiver 868 MHz radio-controlled io
for 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”

1) LED-Line and LED-Spots cannot be combined

3) Only available for single unit and coupled unit 2 fields

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, with radio-controlled motor RTS / io⁴⁾ 5)

Shadeplus fabric	fabric pattern no.	standard	optional	Awning fixture width	height	tailored cloth
sunvas	309..–315..	✓	—	≤ 600 ≤ 600	160 210	LN QN
sunsilk	324.. / 328.. / 369..	✓	—	≤ 600 ≤ 600	160 210	LN QN
sunbow	411..–427..	✓	—	≤ 600 ≤ 600	100 210	LN QN
sunvas (250 cm)	31008, -09, -13, -16, -18, -27, -28, -31, -37, -57, -58, 31109, -14, -17	✓	—	≤ 600	210	N
smart art	340..	—	—			
perla FR	371.. / 372..	—	—			
perfotex	331.. / 332..	—	—			
transolair	338..	—	✓	≤ 600	210	N
transolair (120 cm)	339..	—	✓	≤ 600	210	QN
vuscreen Alu	317..	—	✓	≤ 600	160	N
Soltis Perform 92	92–..	—	✓	≤ 490	210	QN
glass fibre screen Serge 600	272..	—	✓	≤ 600	210	N

4) 433 MHz radio-controlled RTS motor / 868 MHz radio-controlled io motor powered by a sundrive solar panel, minimum fixture width 94 cm

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

N = seamless

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

QN = horizontal panel joint(s)

Dimensions in cm

Dimensions and configuration options

Coupled unit, 2 fields

		Awning fixture width						
		600 ¹⁾	700 ¹⁾	800	900	1000	1100	1200
Order dimensions		551	601	701	801	901	1001	1101
		600	700	800	900	1000	1100	1200
Overall Awning width		+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10
H	150							
	200							
	250							
	300							
	350							
	400							
	450							
	500							—
	550						—	—
	600						—	—

Coupled unit, 3 fields

Order dimensions		Awning fixture width												
		600 ¹⁾	700 ¹⁾	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
Overall Awning width		+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10
H	150													
	200													
	250													
	300													
	350													
	400													
	450													
	500												—	—
	550											—	—	—
	600											—	—	—

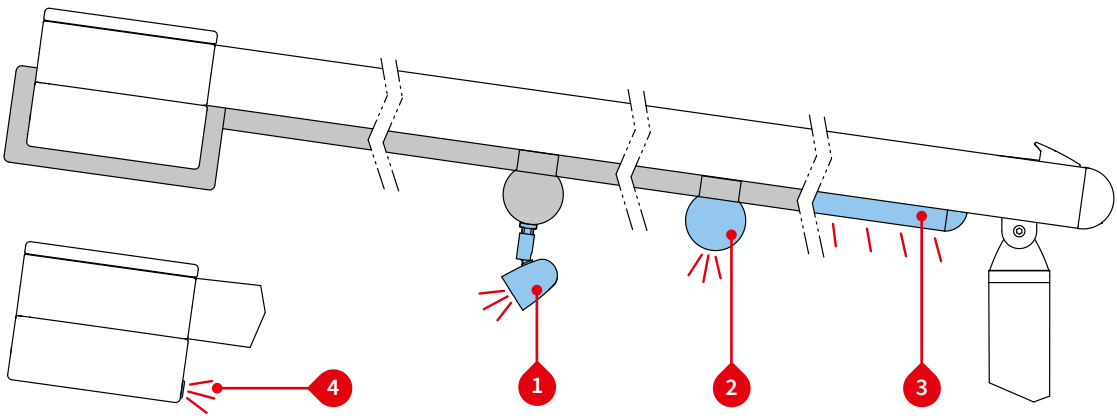
N.B.: The option of having telescopic posts in awnings with 3–5 fields is only available on request.

- 1)

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

= **order dimension** = extension
- dimensions in cm

Lighting options



Lighting options

- 1 LED-Spots in the cover support tube ¹⁾
- 2 LED-Line in the cover support tube ¹⁾
- 3 LED-Line in the guide tracks on both sides
- 4 LED-Line in the cassette ³⁾

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

- 1) LED-Line and LED-Spots cannot be combined
- 3) Only available for single unit and coupled unit with 2 fields

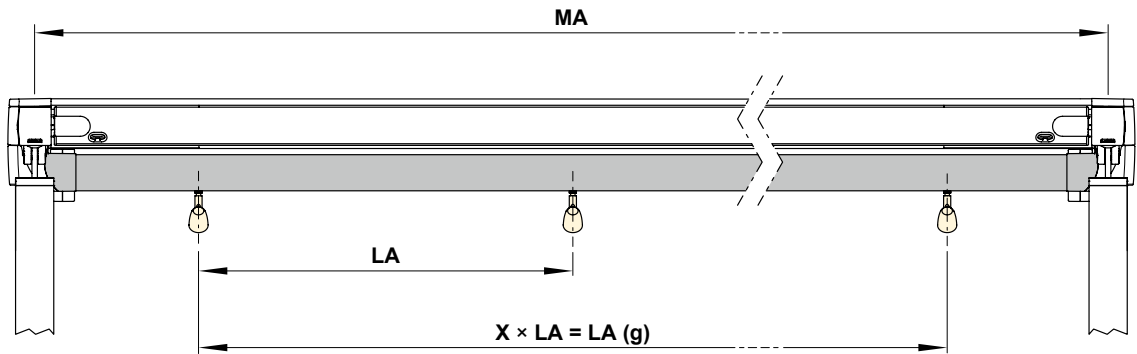
Controls

	standard	optional
on/off switch	—	✓
radio-controlled dimmer io 868 MHz	✓	—
radio-controlled dimmer RTS 433 MHz	—	✓

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 in the cover support tube



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 in the cover support tube

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 3 and 4 LED-Line in the cassette / in the cover support tube / attached to the guide tracks

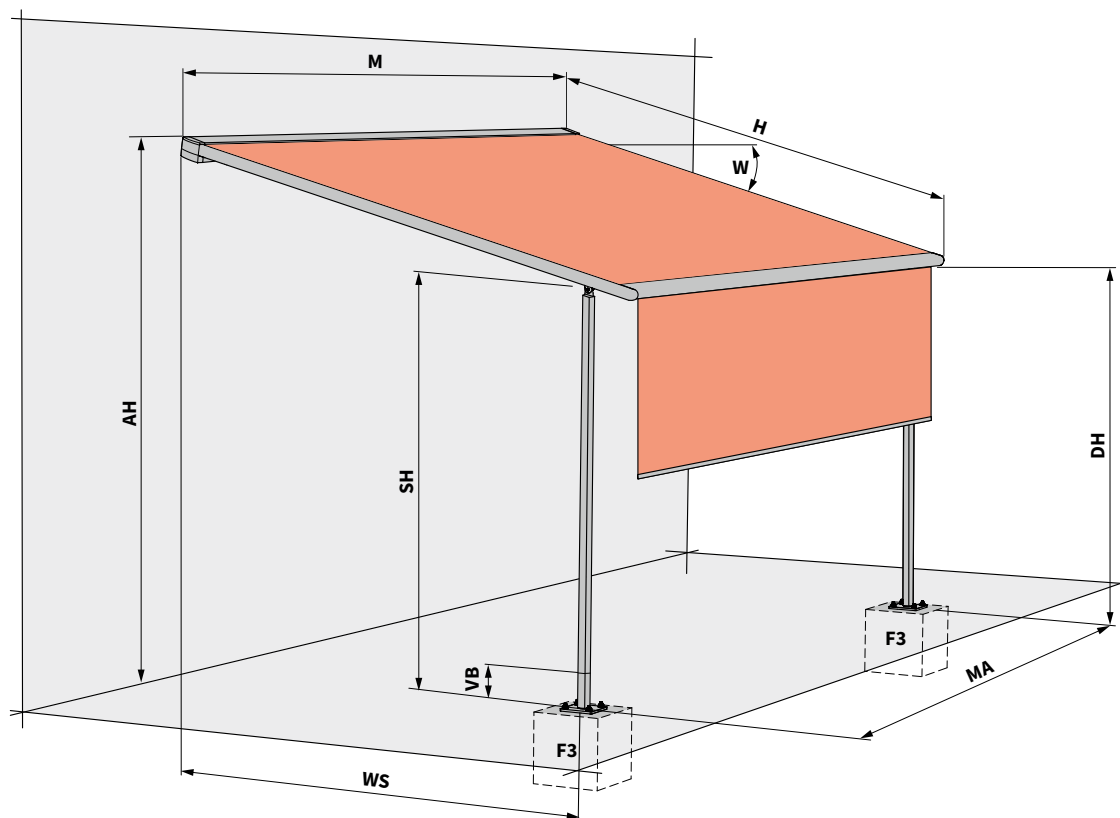
Technical specification

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

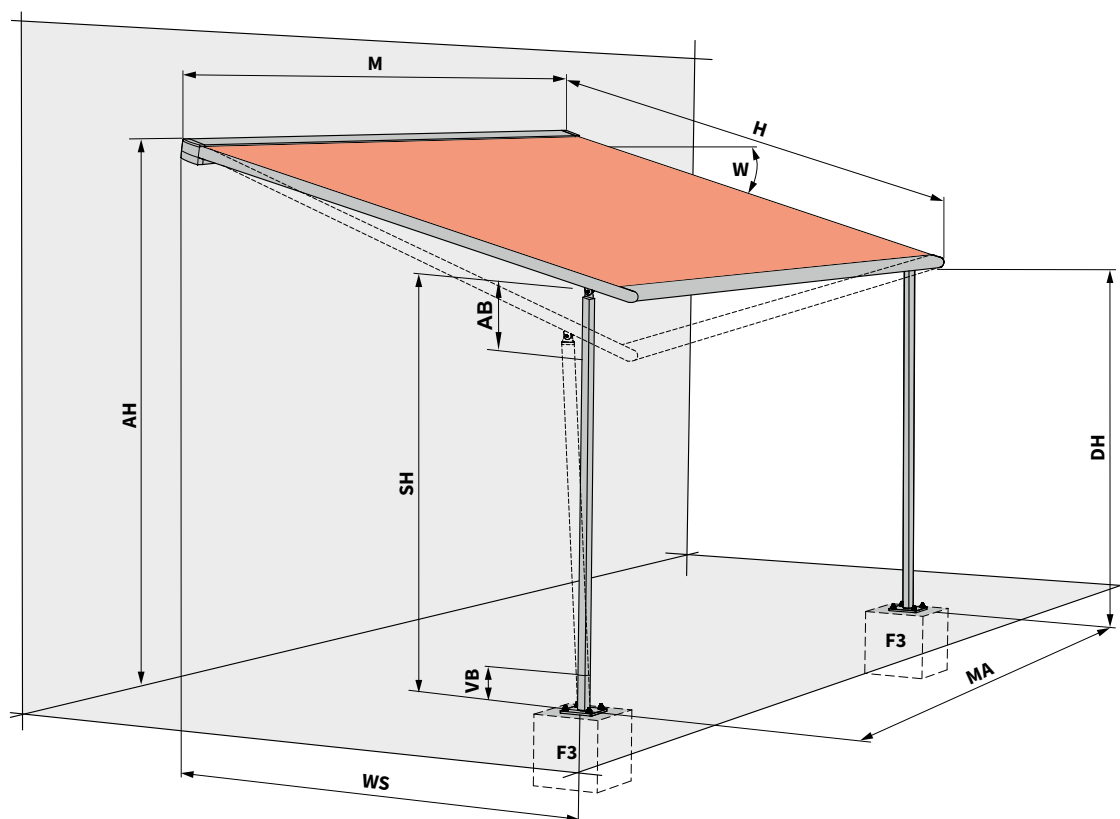
- LA = distance between the spots
- LA (g) = distance between the spotlights (total)
- MA = order dimension= awning fixture width = fixture width

Overview of dimensions

pergola with fixed posts¹⁾ – support post fixture to a concrete footing



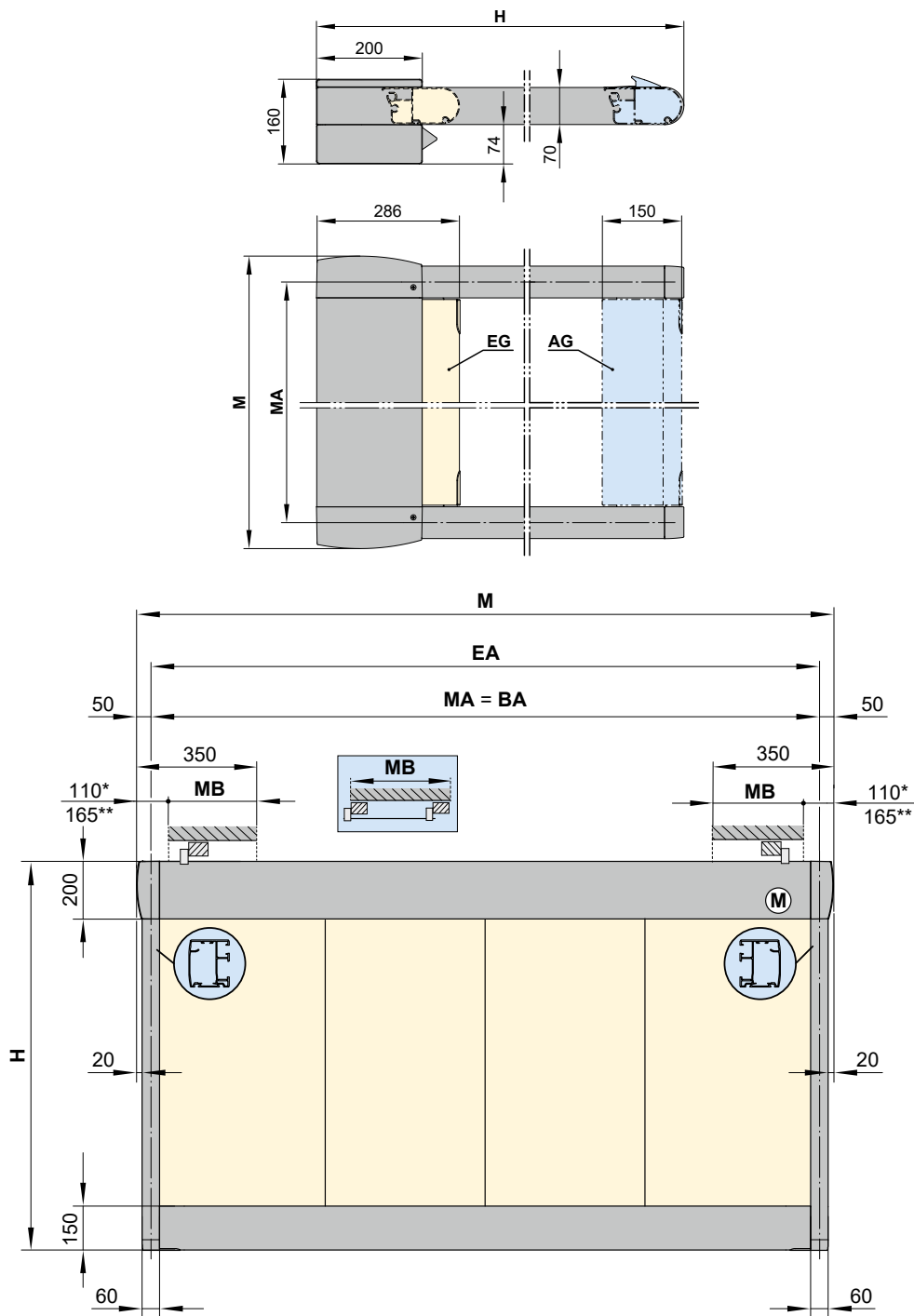
pergola with telescopic post¹⁾ – support post fixture to a concrete footing



1) Optional with shadeplus

Overview of dimensions

Single unit



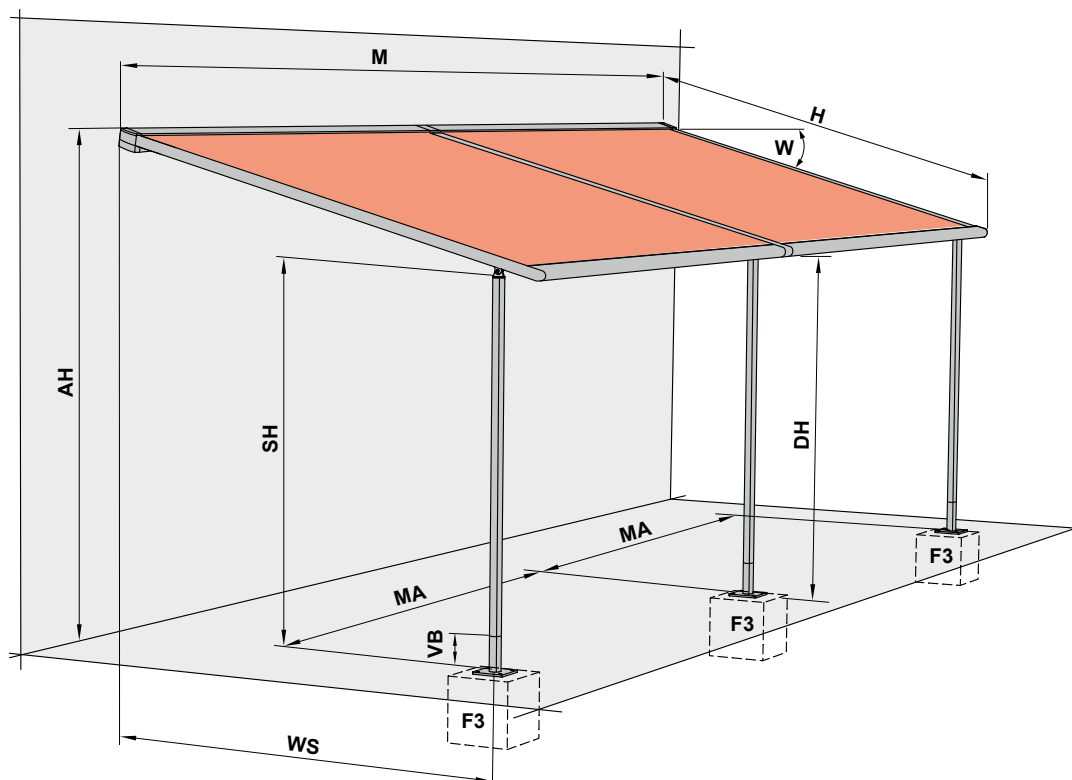
- * = dimensions fixture range
- ** = dimensions fixture range for cable duct in case of lighting
- AB = adjustment range of a post 200, 300 or 400. For more detailed information please refer to "Dimensions and configuration options"
- AG = extended
- AH = installation height
- BA = **order dimension** = width between fixture points = awning fixture width
- DH = headroom
- EA = single unit
- EG = retracted

- F3 = concrete foundation. Please refer to the section "Concrete foundations"
- H = **order dimension** = projection
- M = overall awning width = $MA + 10$ cm
- (M) = operation side, motor drive
- MA = **order dimension** = awning fixture width
- MB = bracket fixture range
- SH = support post height
- VB = height adjustment at the base of both the front support posts during installation approximately 100 mm
- W = pitch setting = 5° – 35°
- WS = distance from wall \leftrightarrow support post centre

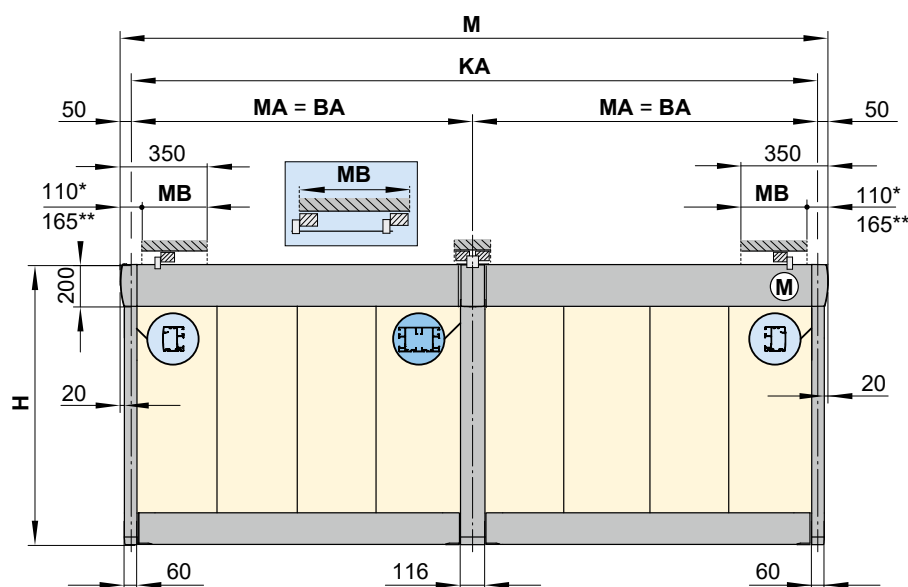
dimensions in mm

Overview of dimensions

Coupled awnings



Coupled unit, 2 fields, 1 motor



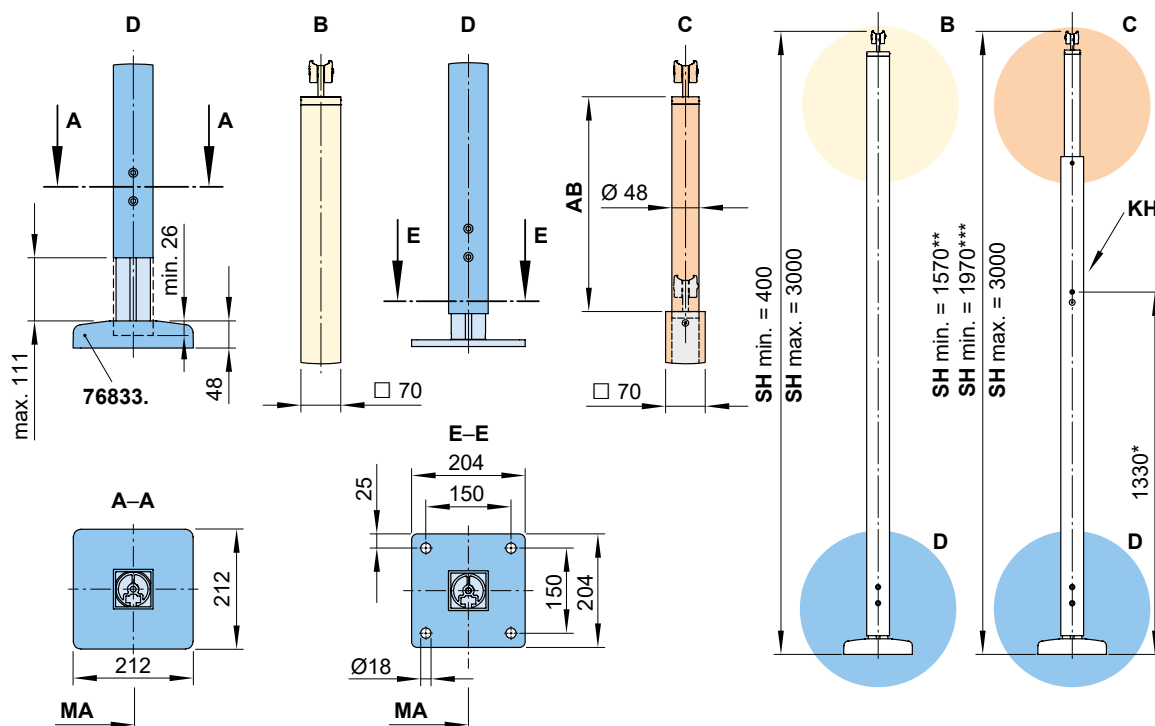
- * = dimensions fixture range
- ** = dimensions fixture range for cable duct in case of lighting
- AH = fixture height
- BA = **order dimension** = width between fixture points = awning fixture width
- DH = headroom
- F3 = concrete foundation. Please refer to the section "Concrete foundations"
- H = **order dimension** = projection
- 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
- SH = **order dimension** = support post height, standard height 2500 mm (special heights on request)
- VB = height adjustment 10 cm
- W = pitch setting = 5°–35°
- WS = distance from wall ↔ support post centre

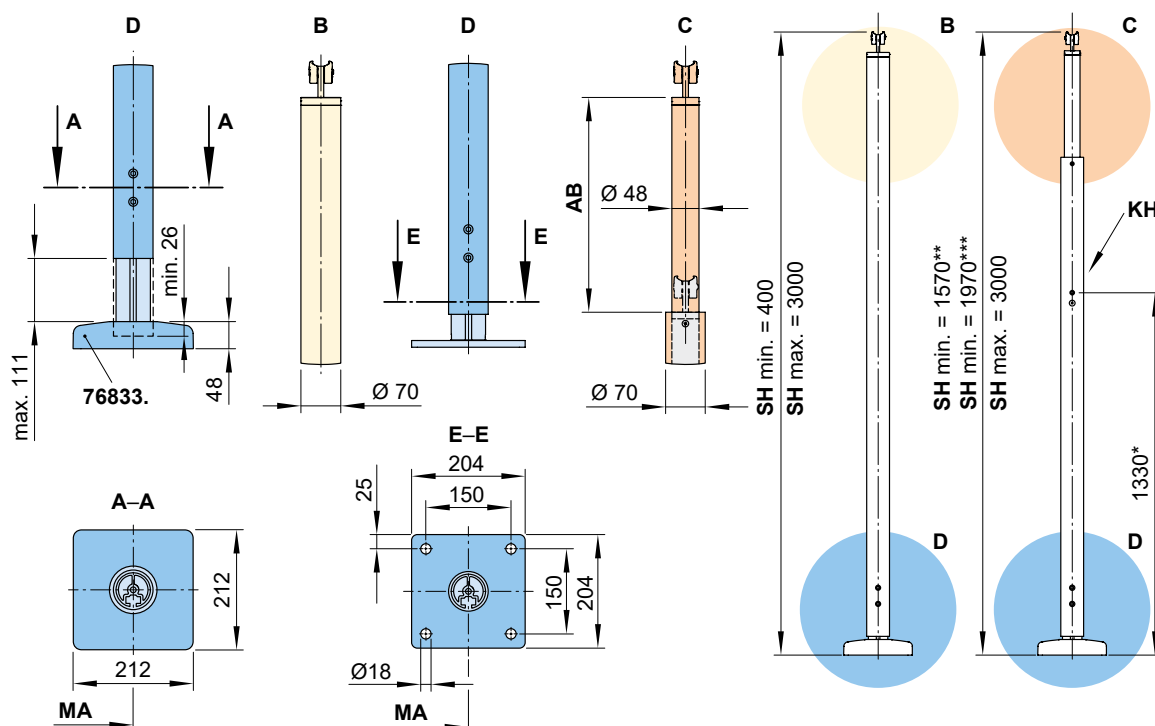
dimensions in mm

Post dimensions

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

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 approximately 100 mm

76833 = footplate cover post

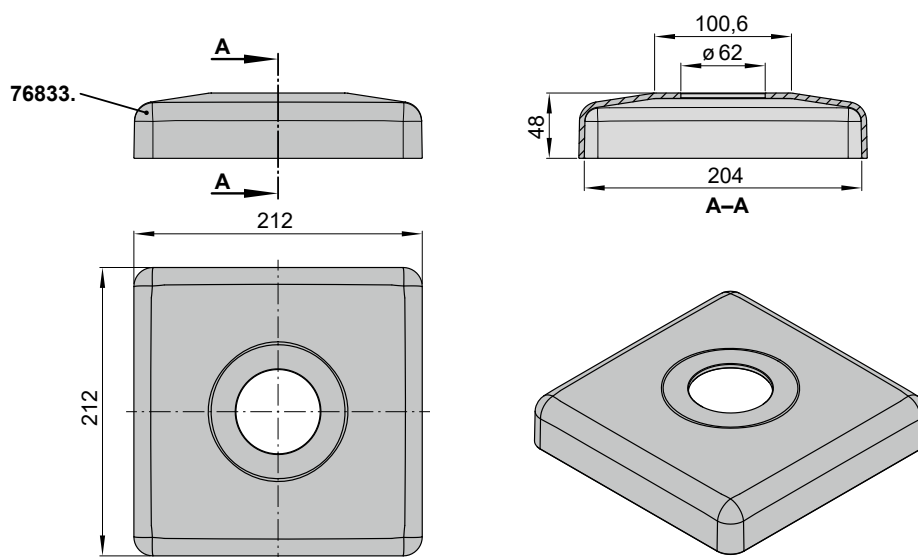
KH = winch handle socket

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

Footplate cover

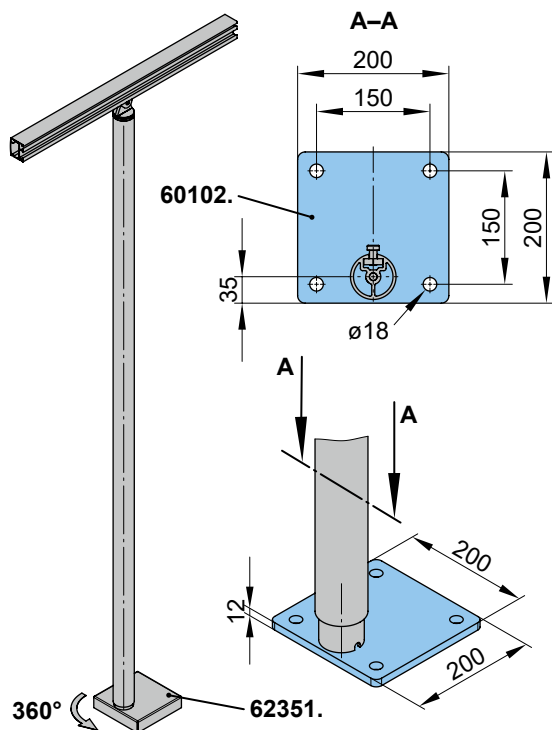


dimensions in mm

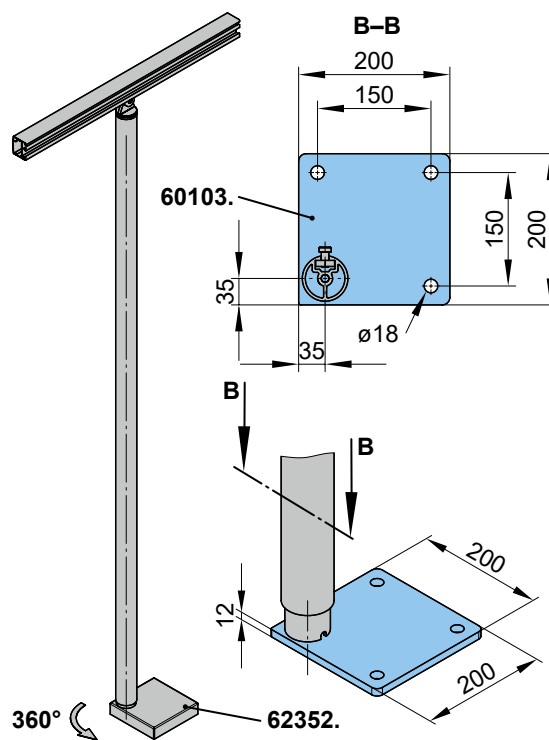
Post with an optional footplate

(Example: left-hand post)

Footplate for post position sideways in the middle



Footplate for post position in the corner

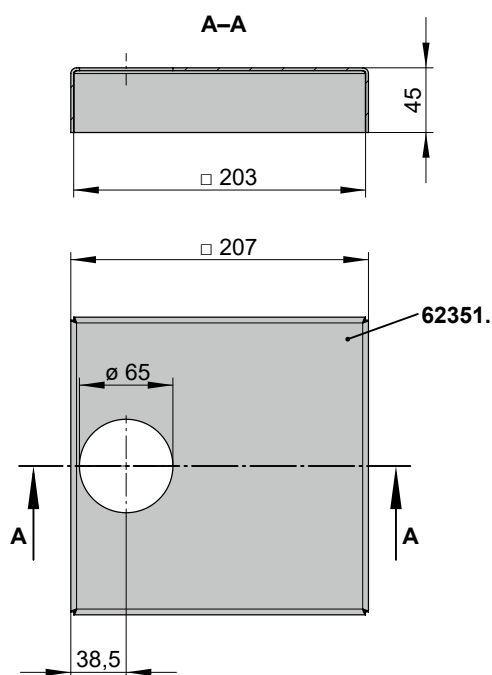


- 76833. = standard footplate cover post
- 60102. = footplate post position sideways in the middle
- 60103. = footplate post position in the corner
- 62351. = footplate cover post position sideways in the middle
- 62352. = footplate cover post position in the corner

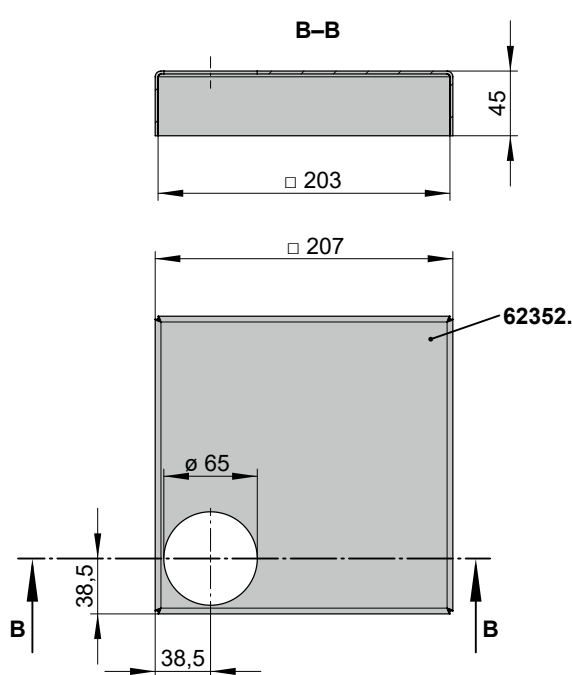
Dimensions in mm

Footplate cover for optional footplate

Footplate cover for post position sideways in the middle



Footplate cover for post position in the corner



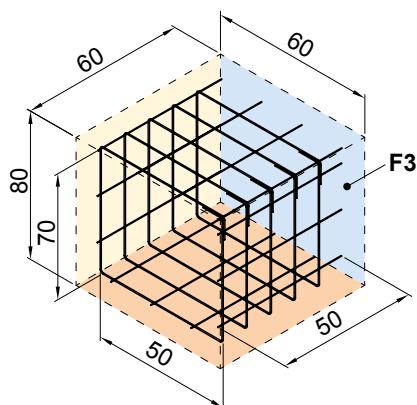
Dimensions in mm

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 \varnothing 6 mm.

F3



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).

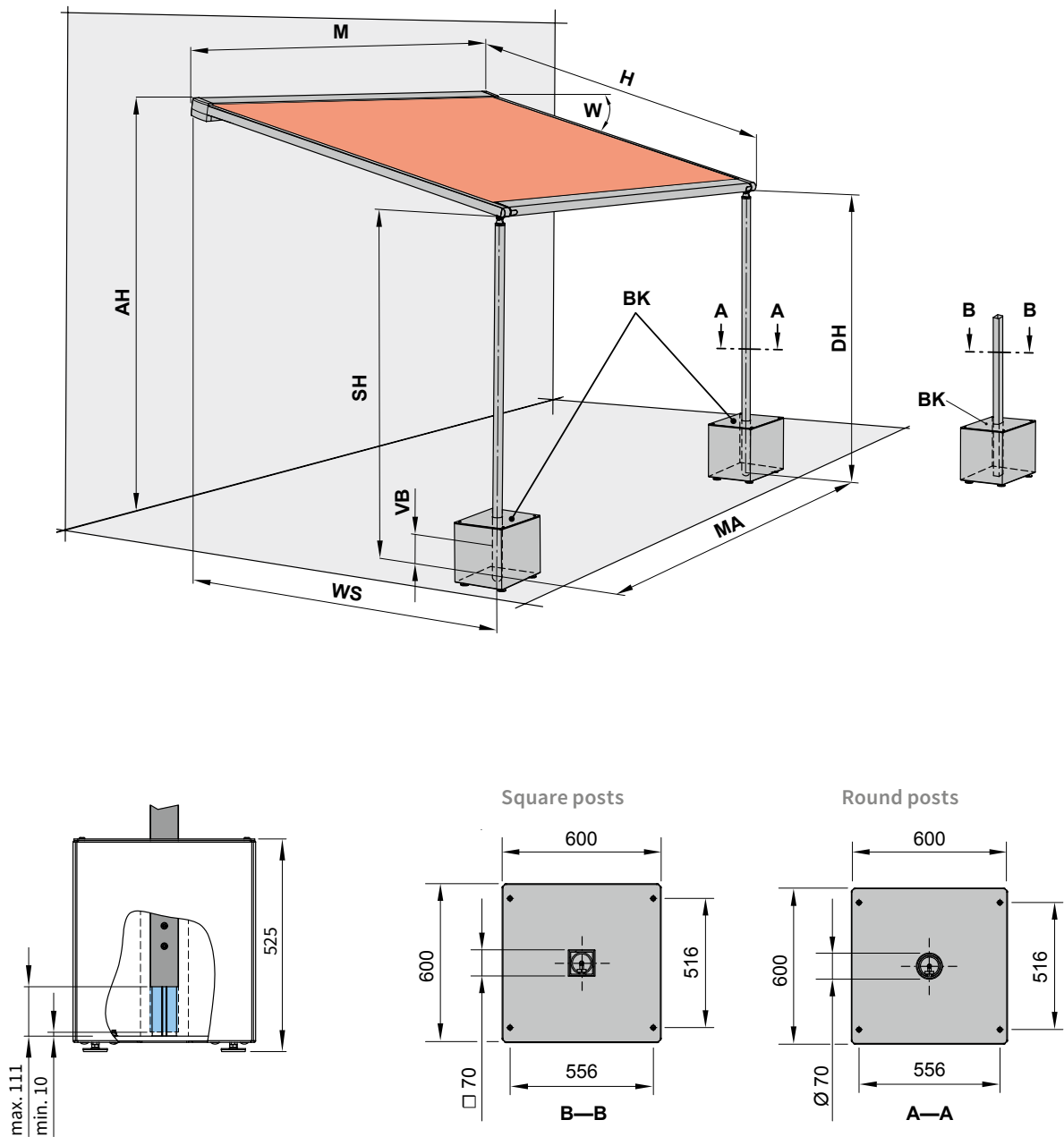
62351. = footplate cover post position sideways in the middle

62352. = footplate cover post position in the corner

dimensions in cm

Overview of dimensions

pergola – support posts with stabilisation boxes



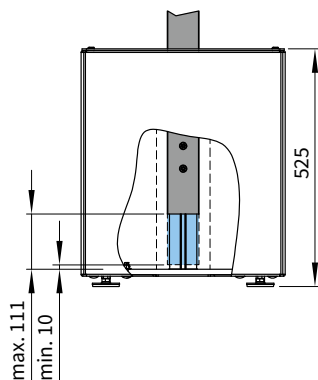
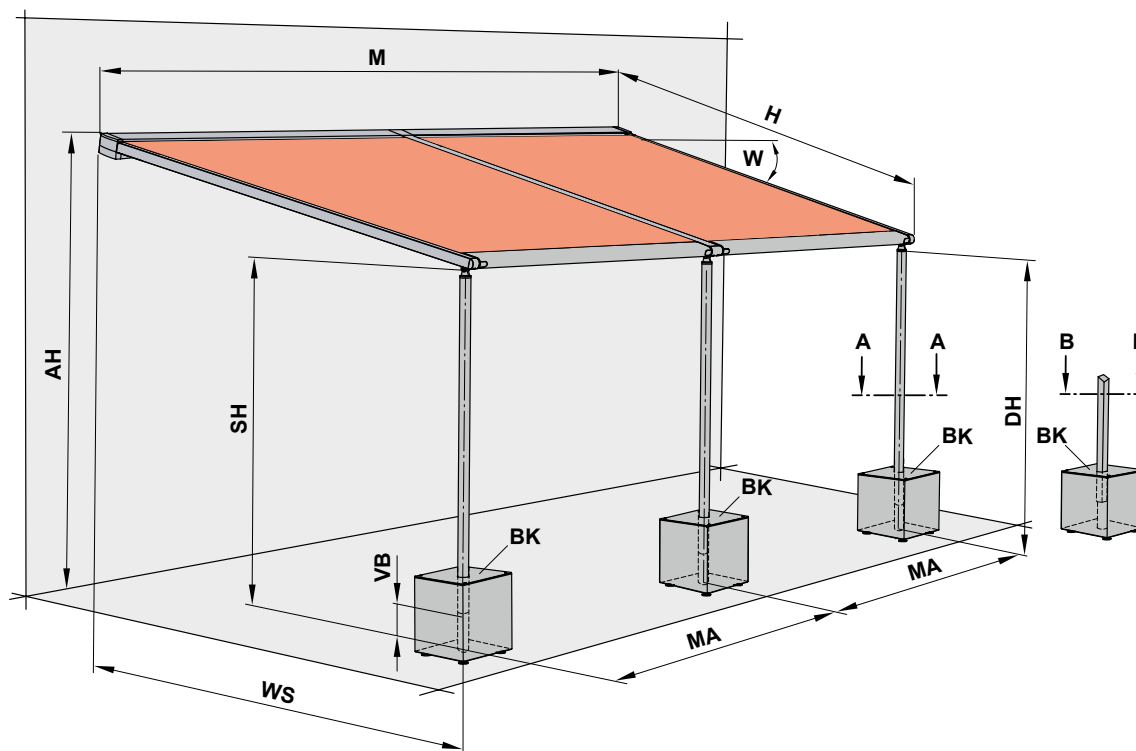
On site, every stabilisation box must be filled with at least 150 kg of ballast.

- | | | | |
|----|---|--|--|
| AH | = | fixture height | |
| BK | = | stabilisation box | |
| DH | = | headroom | |
| H | = | order dimension = projection | |
| M | = | overall awning width = MA + 10 cm | |
| MA | = | order dimension = awning fixture width = fixture width | |
| SH | = | order dimension = post height | |
| VB | = | height adjustment at the base of both the front support posts during installation approximately 100 mm | |
| W | = | pitch setting = 5°–35° | |
| WS | = | distance from wall ↔ support post centre | |

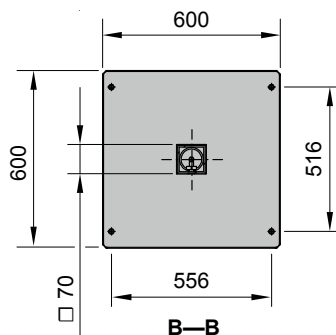
dimensions in mm

Overview of dimensions

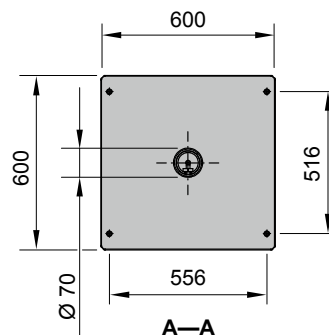
pergola – support posts with ballast boxes, coupled unit



Square posts



Round posts



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

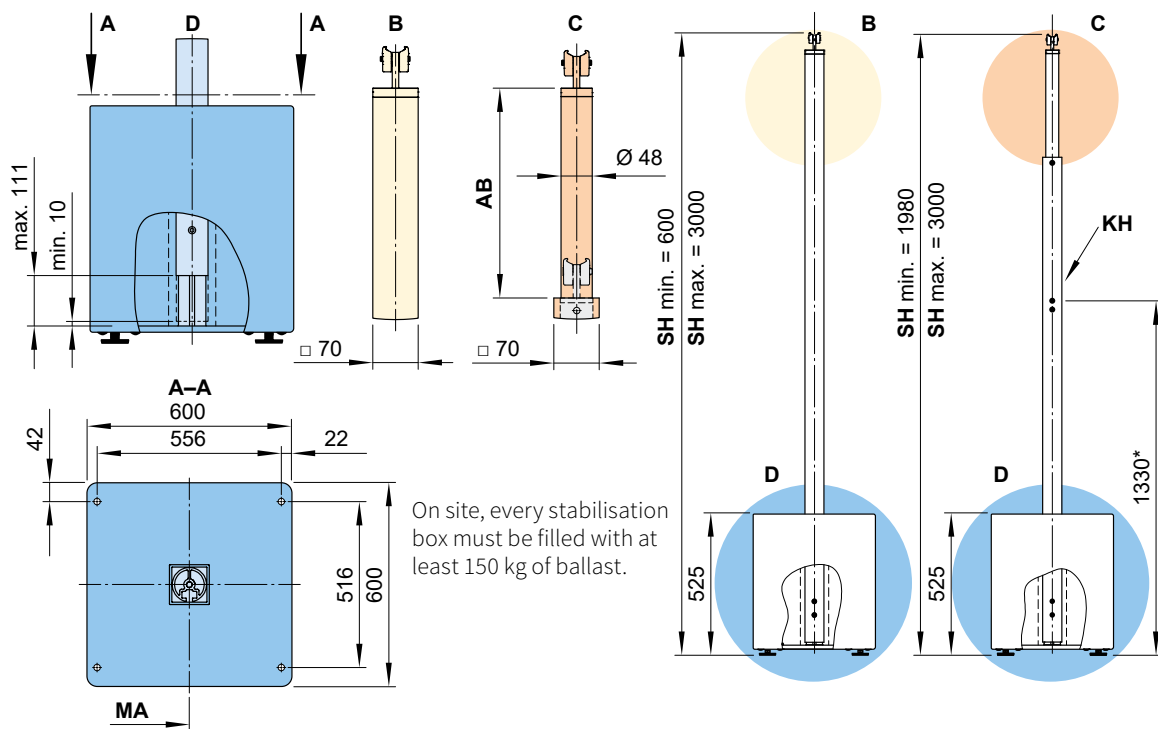
AH = fixture height
BK = stabilisation box
DH = headroom
H = **order dimension** = projection
M = overall awning width = **MA** + 10 cm
MA = **order dimension** = awning fixture width = fixture width

SH = **order dimension** = post height
VB = height adjustment at the base of both the front support posts during installation approximately 100 mm
W = pitch setting = 5°–35°
WS = distance from wall ↔ support post centre

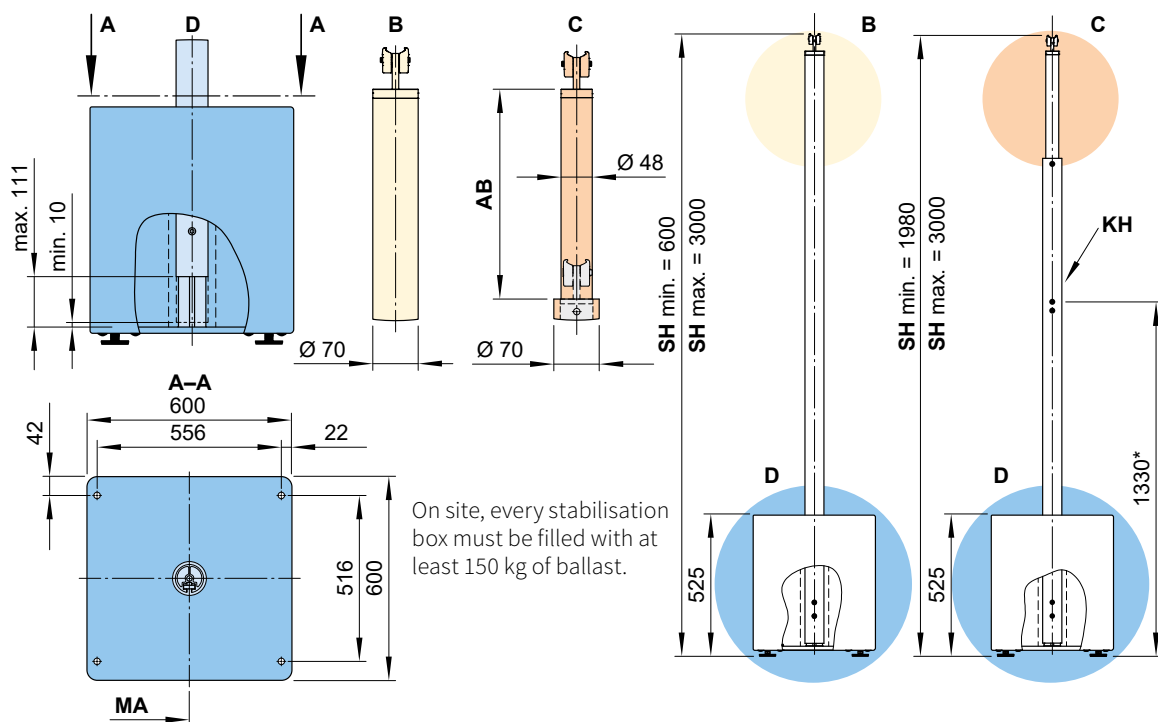
dimensions in mm

Post dimensions

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



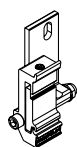
Round support post with stabilisation box (not adjustable / adjustable)



- * = 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

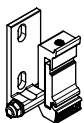
- D = height adjustment at the base of both of the front support posts during installation approx. 100 mm
 KH = winch handle socket
 MA = **order dimension** = blind fixture width = fixture width
 SH = **order dimension** = support post height, standard height 2500 mm (special heights on request)
 dimensions in mm

Fixtures, fittings and accessories



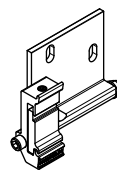
face fixture bracket
left
pitch adjustment
range 0°–35°

60569.



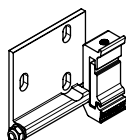
face fixture bracket
right
pitch adjustment
range 0°–35°

60570.



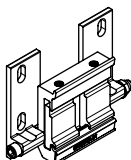
face fixture wide
left
pitch adjustment range
0°–35°

60615.



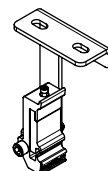
face fixture wide
right
pitch adjustment range
0°–35°

60616.



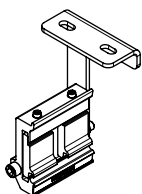
coupling bracket
cassette wall
pitch adjustment range
0°–35°

60575.



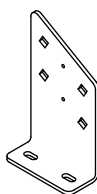
top fixture cassette
bracket right / left
pitch adjustment
range 5°–20°

60577.



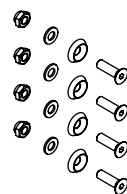
cassette coupling
bracket
top fixture
pitch adjustment 5°–20°

60578.



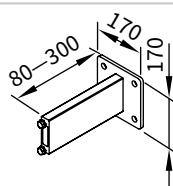
eaves fixture bracket

77010.



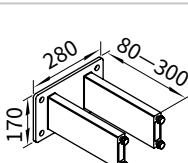
accessories for two
eaves fixture brackets
77010.

767281



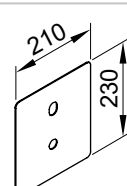
stand-off bracket
for face fixture bracket
80–300 mm
incl. insulating element

77967.



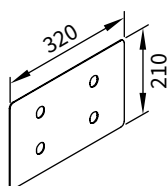
stand-off bracket
for coupling bracket
80–300 mm
incl. insulating element

77970.



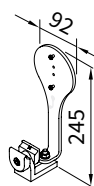
cover plate
for spacer plate and
stand-off brackets in
the case of external
insulation
210 × 230 × 2 mm

71844.



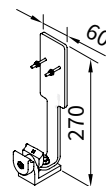
cover plate
for spacer plate and
stand-off brackets in
the case of external
insulation
320 × 210 × 2 mm

71842.



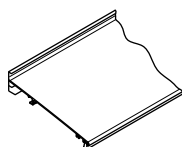
bracket for sun and/or
wind sensor io

76723.



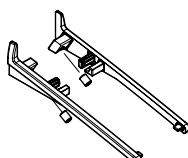
fixture bracket for light
and / or wind and/or
rain sensor

76050.



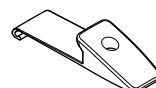
wall sealing profile
incl. brush seal
by the metre

76385. and 704241.



side cover
wall sealing profile
left and right

60919. and 60920.



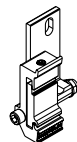
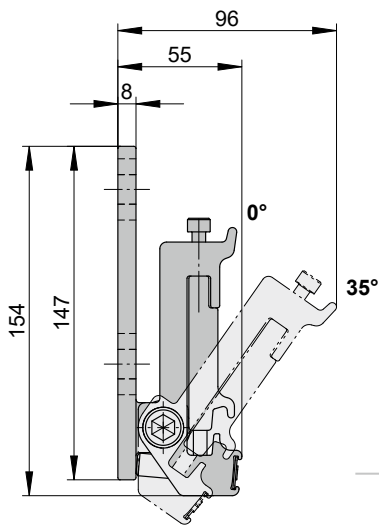
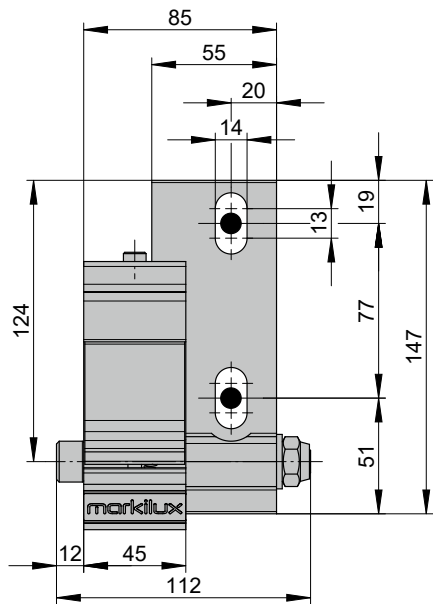
storm safety clip /
closing guide

60549.

dimensions in mm

Face fixture

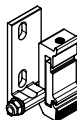
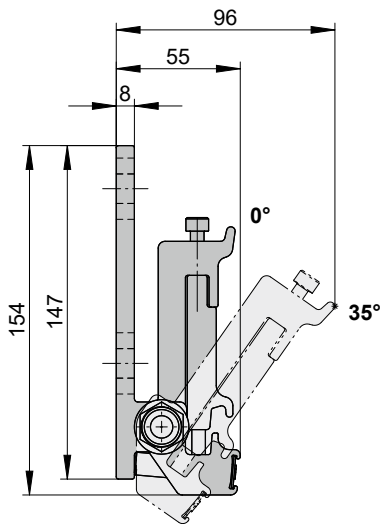
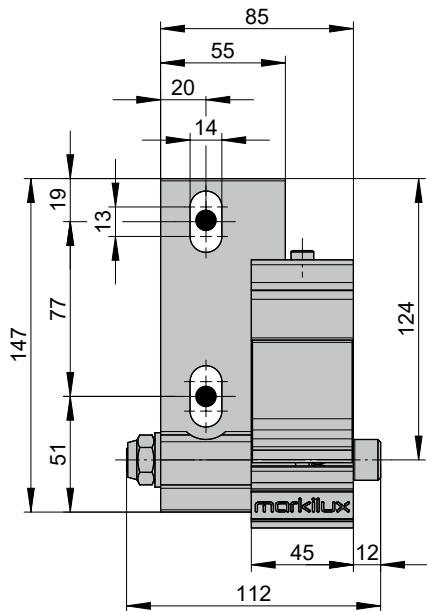
Face fixture cassette bracket, left



face fixture bracket
left
pitch adjustment
range 0°—35°

60569.

Face fixture cassette bracket, right



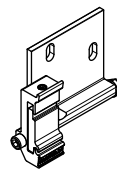
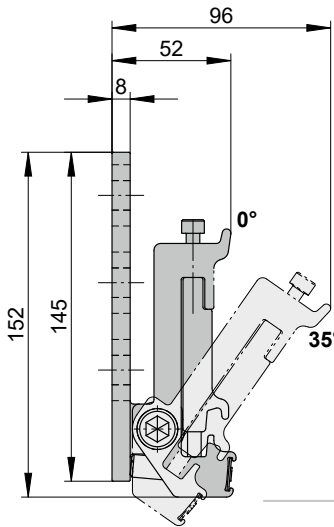
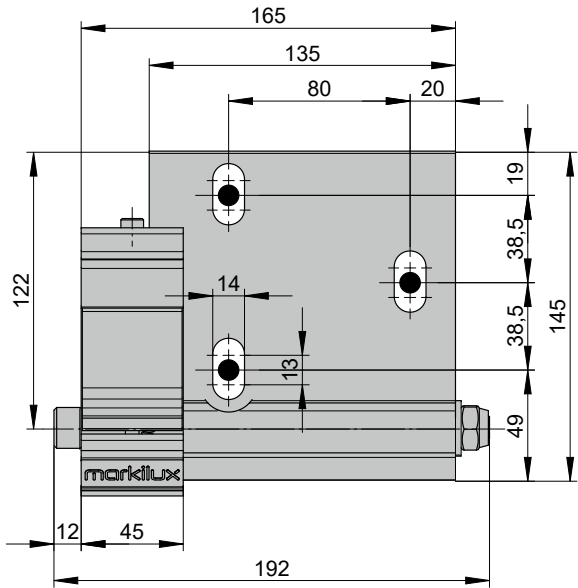
face fixture bracket
right
pitch adjustment
range 0°—35°

60570.

dimensions in mm

Face fixture

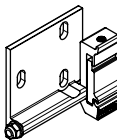
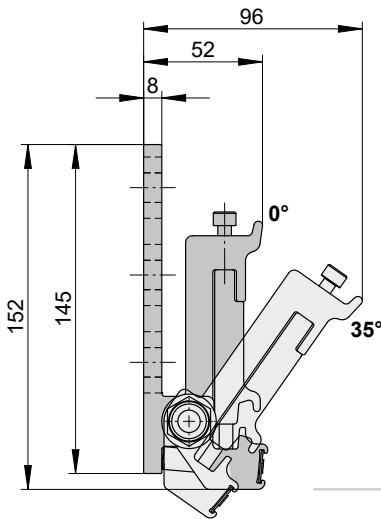
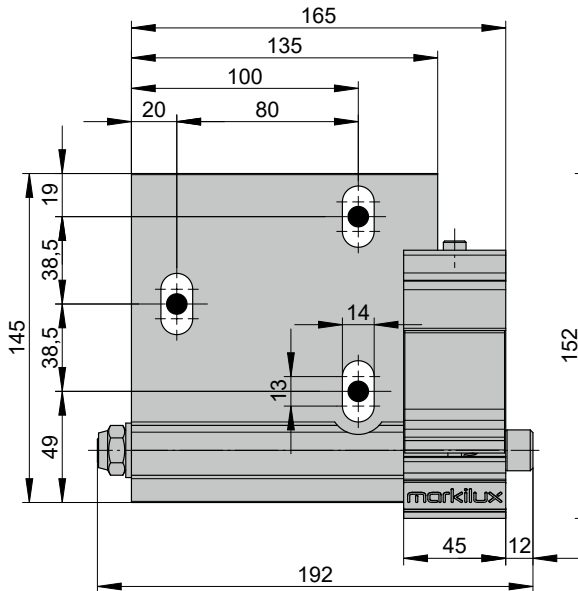
Face fixture cassette bracket, wide, left



face fixture wide
left
pitch adjustment range
0°-35°

60615.

Face fixture cassette bracket, wide, right



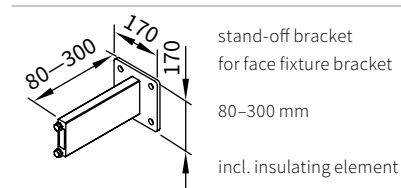
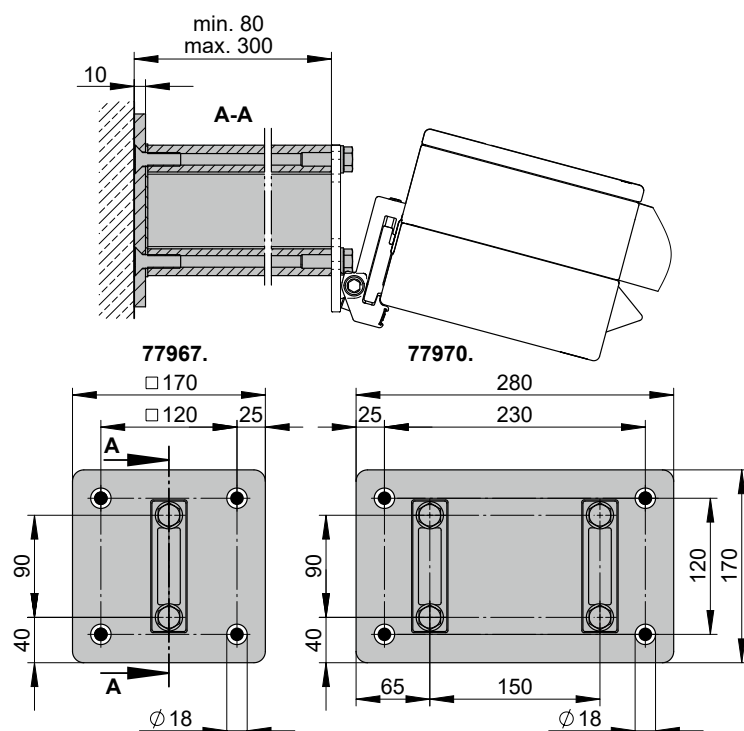
face fixture wide
right
pitch adjustment range
0°-35°

60616.

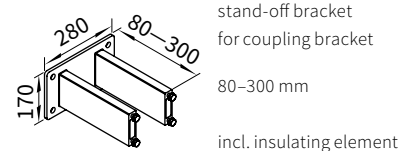
dimensions in mm

Face fixture

Face fixture using stand-off brackets

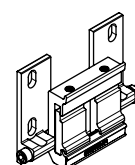
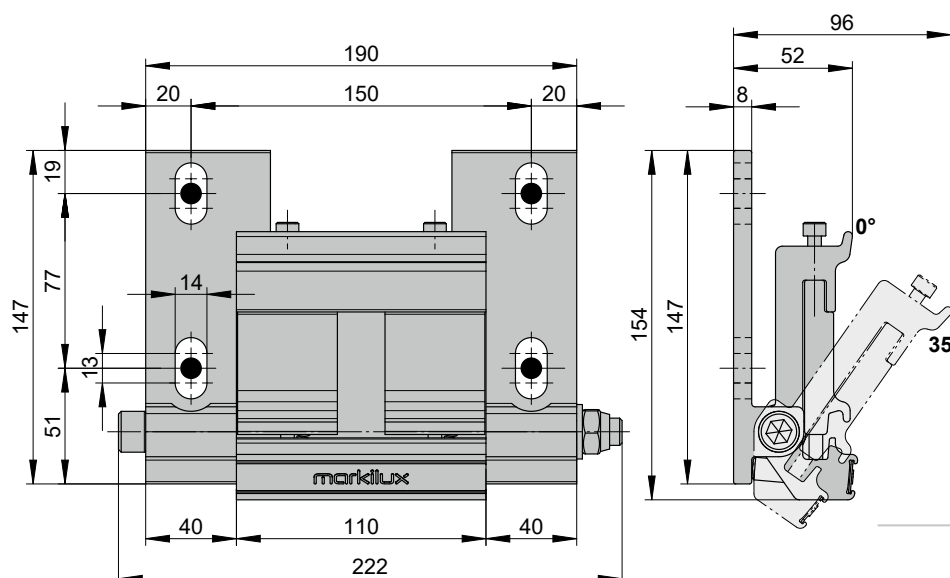


77967.



77970.

Coupling cassette bracket (central in coupled units)



coupling bracket
cassette wall

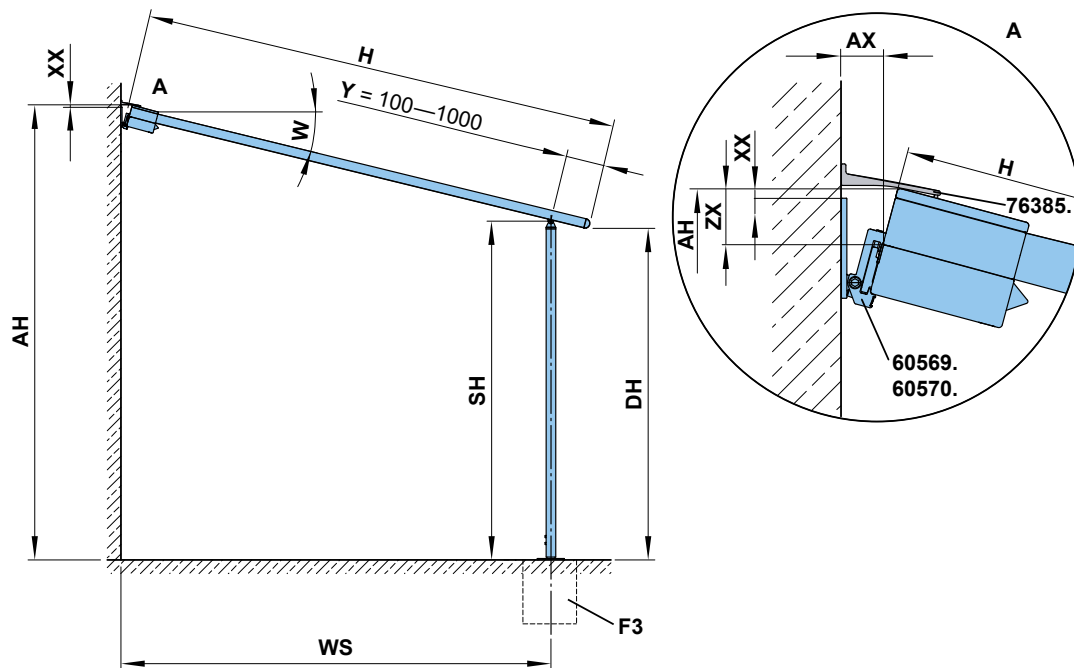
pitch adjustment range
0°–35°

60575.

dimensions in mm

Face fixture

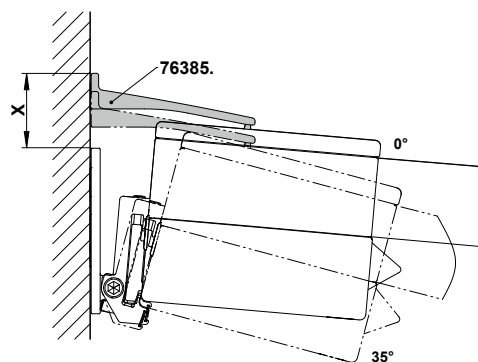
Dimension overview support post with footplate



W	AX	XX	ZX
0°	45	27	86
5°	51	24	85
10°	56	19	84
15°	61	14	82
20°	66	8	79
25°	70	0	76
30°	74	- 8	72
35°	78	- 14	68

dimensions in mm

Face fixture with wall sealing profile



W	X
0°	81
5°	72
10°	64
15°	57
20°	51
25°	46
30°	42
35°	35

76385. = wall sealing profile (standard width = awning fixture width (MA) + 100 mm)

60569. = face fixture bracket, left

60570. = face fixture bracket, right

AH = fixture height = $SH + ZX + \sin W \times (H - Y)$

AX = distance from wall \leftrightarrow cassette

DH = headroom = $SH - \sin W \times Y$

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

H = **order dimension** = projection

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

W = pitch (measured from the horizontal)

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

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

X = mounting height of wall connection profile from upper edge of fixture bracket

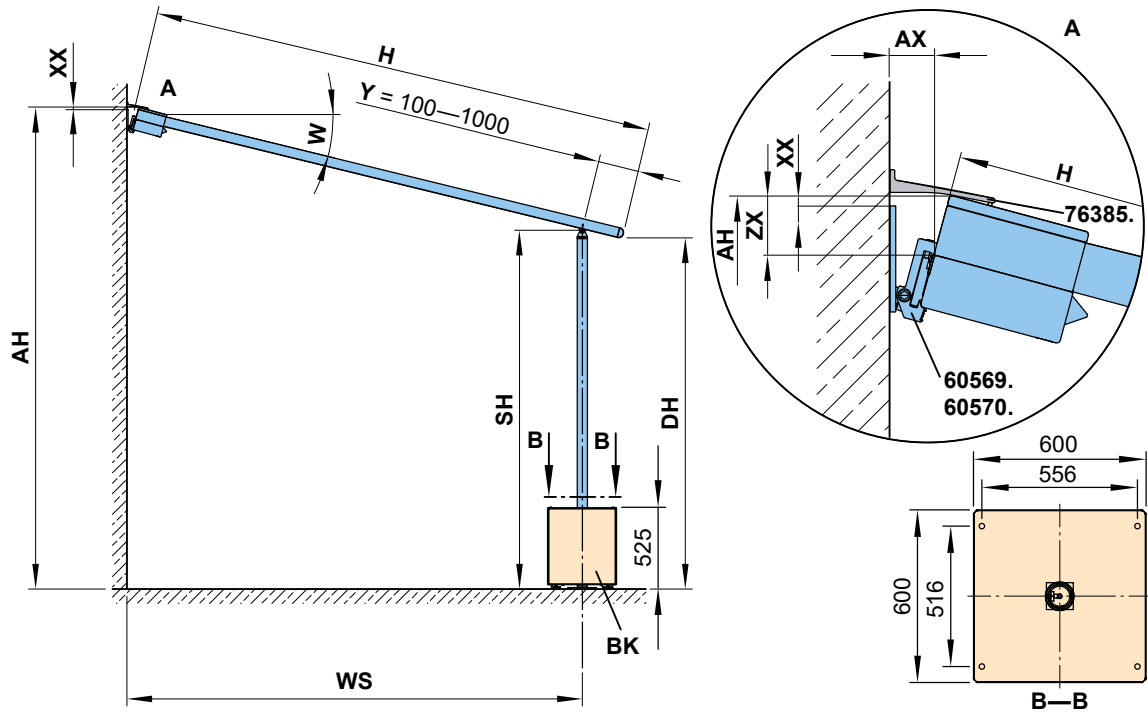
XX = distance from the top edge of the fixture bracket to the top edge of the cassette (see table)

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

Dimensions in mm

Face fixture

Dimension overview support post with stabilisation box



W	AX	XX	ZX
0°	45	27	86
5°	51	24	85
10°	56	19	84
15°	61	14	82
20°	66	8	79
25°	70	0	76
30°	74	- 8	72
35°	78	- 14	68

dimensions in mm

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

76385. = wall sealing profile (standard width = awning fixture width (**MA**) + 100 mm)

60569. = face fixture bracket, left

60570. = face fixture bracket, right

AH = fixture height = $SH + ZX + \sin W \times (H - Y)$

AX = distance from wall \leftrightarrow cassette

BK = stabilisation box

DH = headroom = $SH - \sin W \times Y$

H = **order dimension** = projection

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

W = pitch

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

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

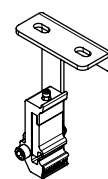
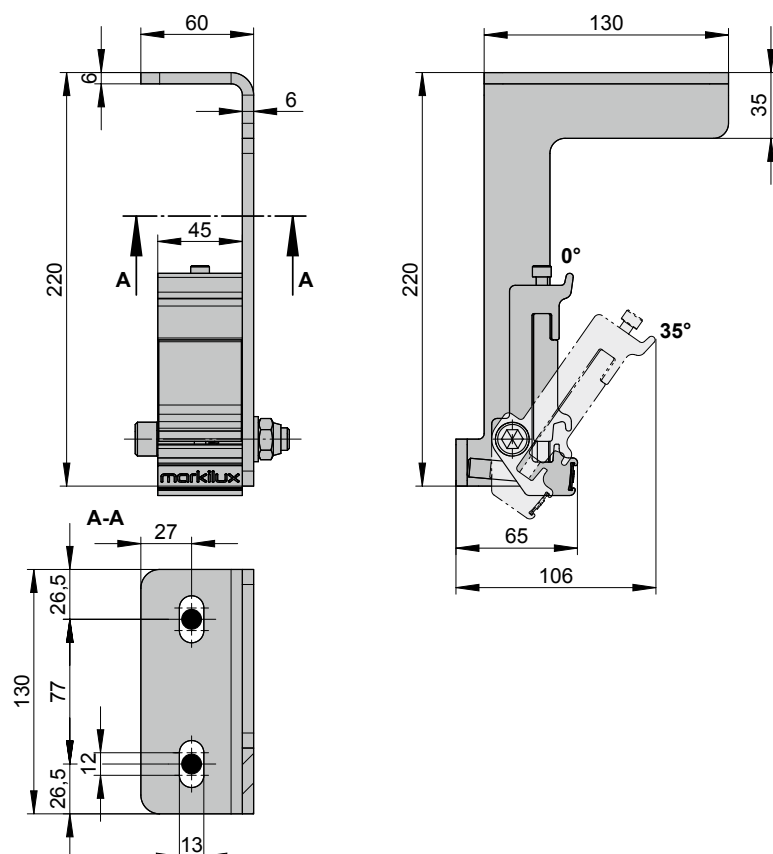
XX = distance from the top edge of the fixture bracket to the top edge of the cassette (see table)

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

Dimensions in mm

Top fixture

Top fixture cassette bracket, right and left

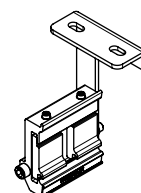
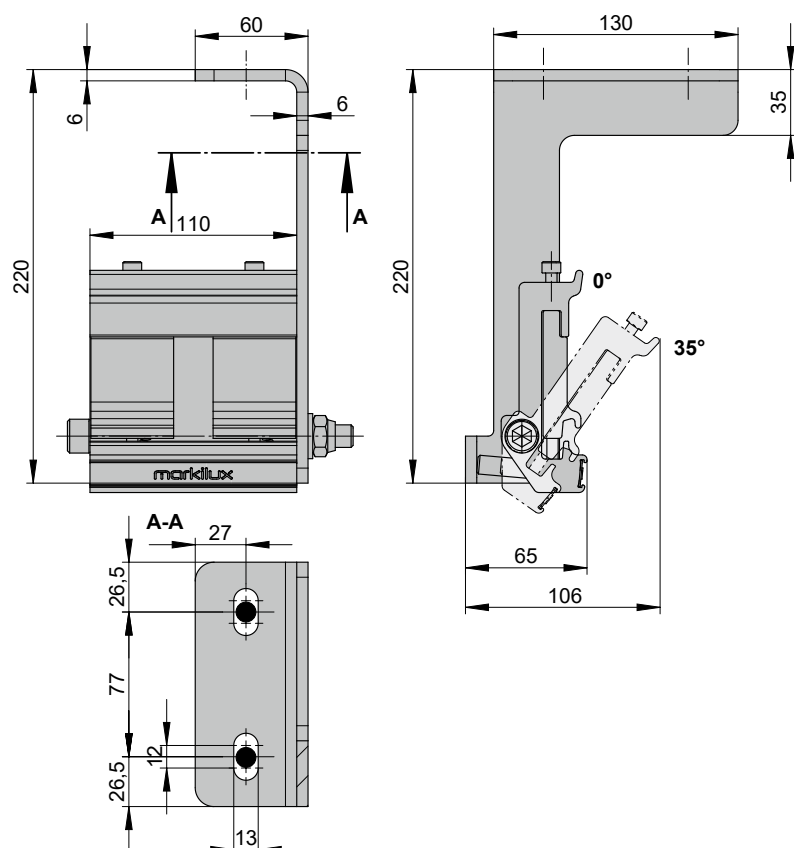


top fixture cassette
bracket right / left

pitch adjustment
range 5°–20°

60577.

Top fixture coupling cassette bracket (central in coupled units)



cassette coupling
bracket
top fixture

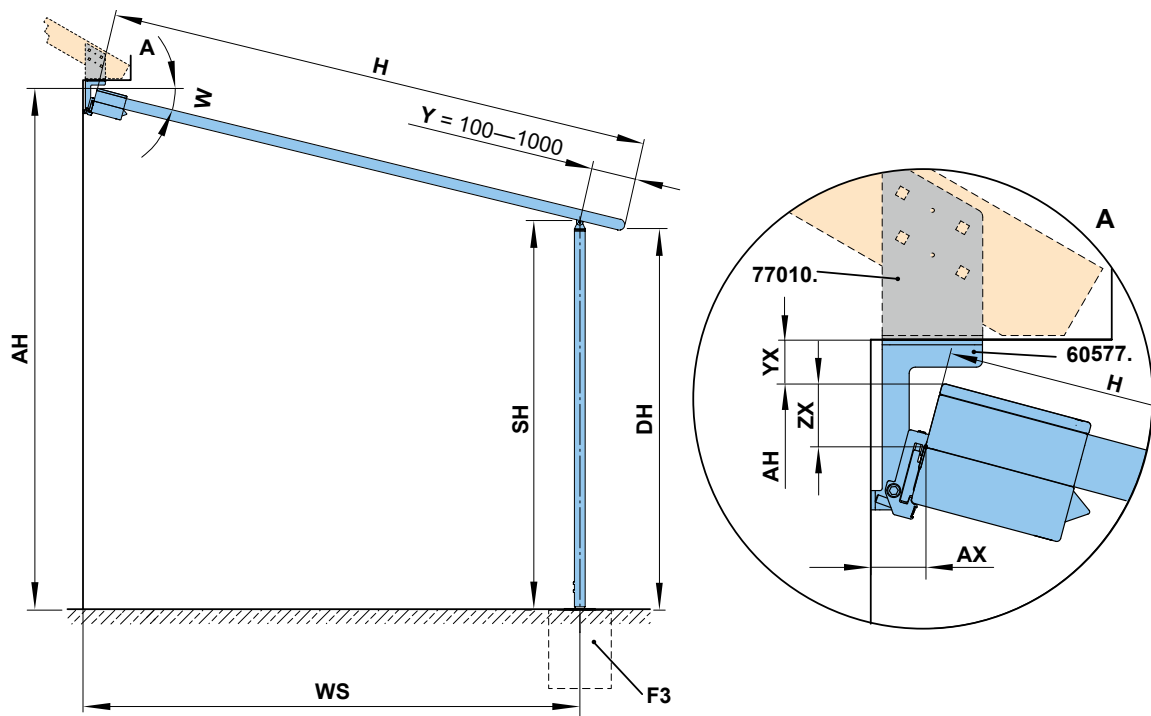
pitch adjustment 5°–20°

60578.

dimensions in mm

Top and eaves fixture

Dimension overview support post with footplate



W	AX	YX	ZX
0°	55	44	86
5°	61	47	85
10°	66	51	84
15°	71	57	82
20°	76	63	79
25°	80	71	76
30°	84	79	72
35°	88	88	68

dimensions in mm

77010. = eaves fixture bracket

60577. = top fixture bracket left /right

AH = fixture height = $SH + ZX + \sin W \times (H - Y)$

AX = distance from wall \leftrightarrow cassette

DH = headroom = $SH - \sin W \times Y$

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

H = **order dimension** = projection

SH = **order dimension** = support post height, standard height 2500 mm (special heights on request) = $AH - ZX - \sin W \times (H - Y)$

W = pitch

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

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

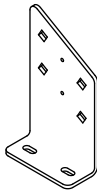
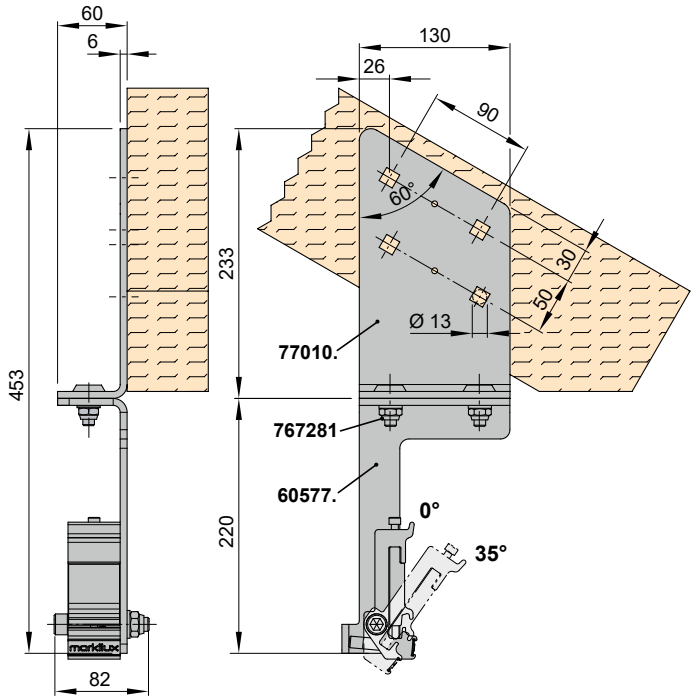
YX = measurement from the top of the cassette \leftrightarrow underside of the gutter

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

dimensions in mm

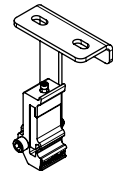
Eaves fixture

Eaves fixture bracket



eaves fixture bracket

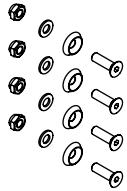
77010.



top fixture cassette bracket right / left

pitch adjustment range 5°—20°

60577.



accessories for two eaves fixture brackets 77010.

767281

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

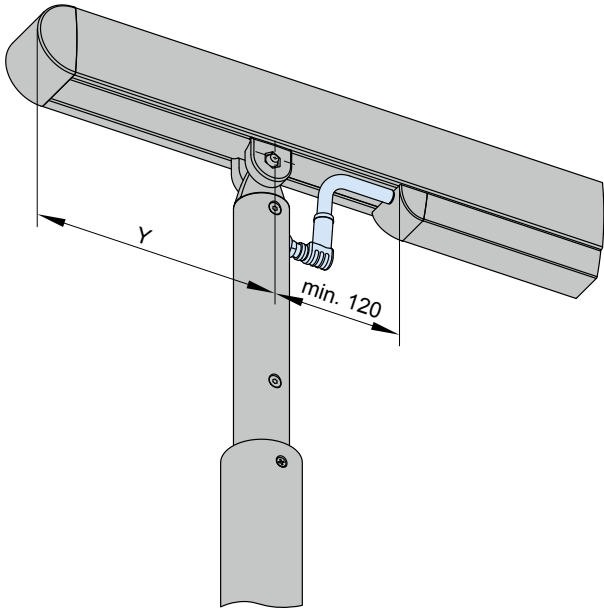
Controls

	standard	optional
hard-wired motor	✓	—
radio receiver Somfy Slim Plug io (8271254)	—	✓
radio receiver Universal Slim Receiver RTS Plug (8272148)	—	✓

Technical details Hard-wired motor

power supply	230 VAC
power output	110 W
protection class	IP 44

Y = **order dimension** = distance from post centre to leading edge of front profile.
 Dimensions: min. 100 bis max. 1000 mm (standard)

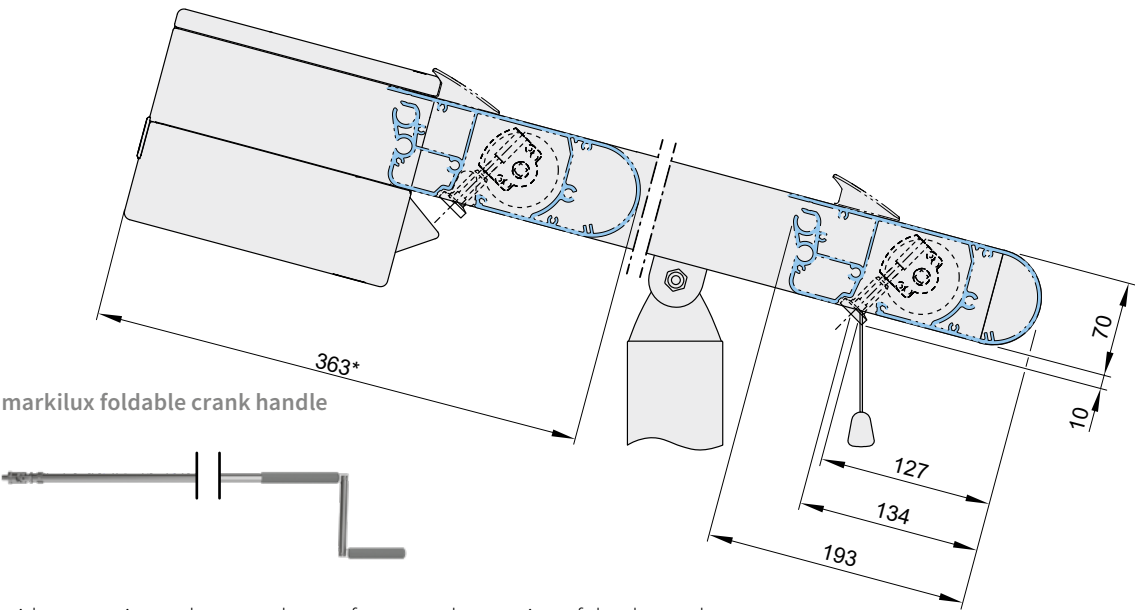


Note: In the case of a motorised post, the difference in measurement from the end of the profile cable duct / LED-Line to end of extension = $Y + 120 \text{ mm}$ = depending on the Y value between 22 cm and 112 cm (in the case of the LED-Line and standard post, the difference in measurement is $= Y +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

dimensions in mm

Overview of fixture dimensions, shadeplus

Magnetic gearbox operation



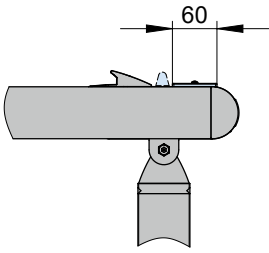
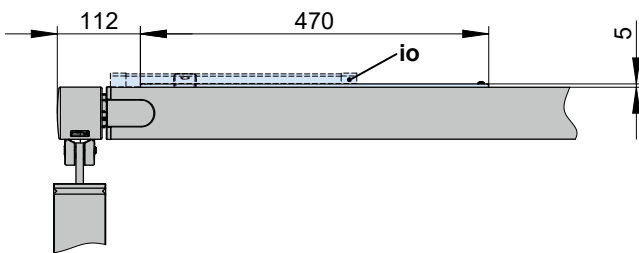
with magnetic gearbox attachment for manual operation of the drop valance
lengths: standard 120 cm, optional 160 cm, from 160 cm up to 280 cm on request
order no. 74271

* = 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

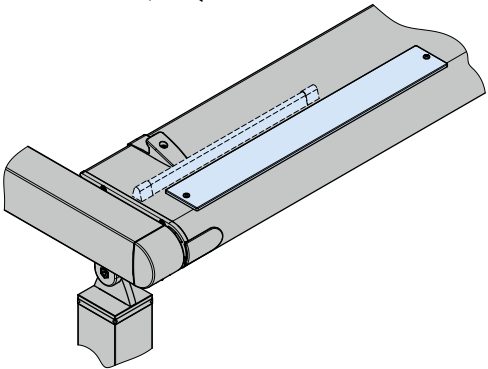


Technical data solar module

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

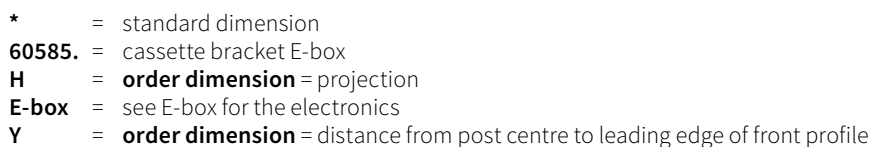
power supply	12 V DC
power output	26 W
protection class	IP 44



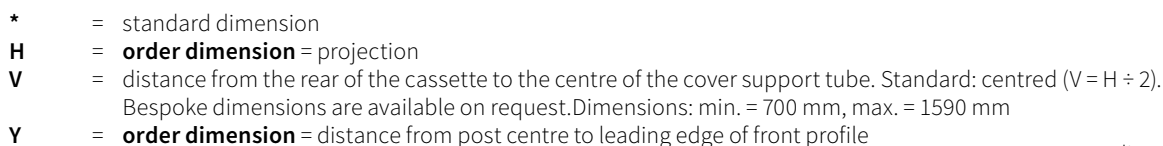
Note: A radio antenna (see illustration) is integrated with the type of operation radio-controlled motor io sundrive.

dimensions in mm

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



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

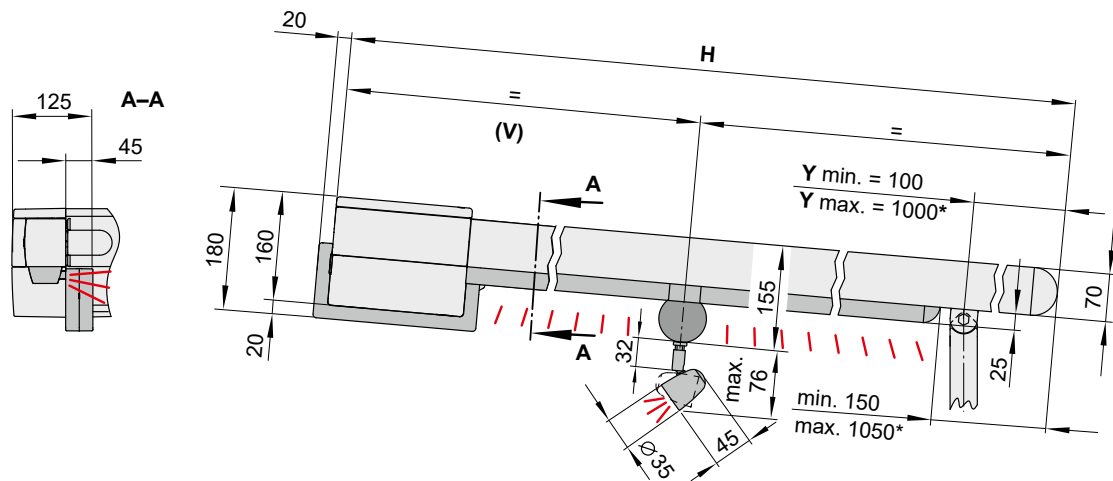


markilux.com

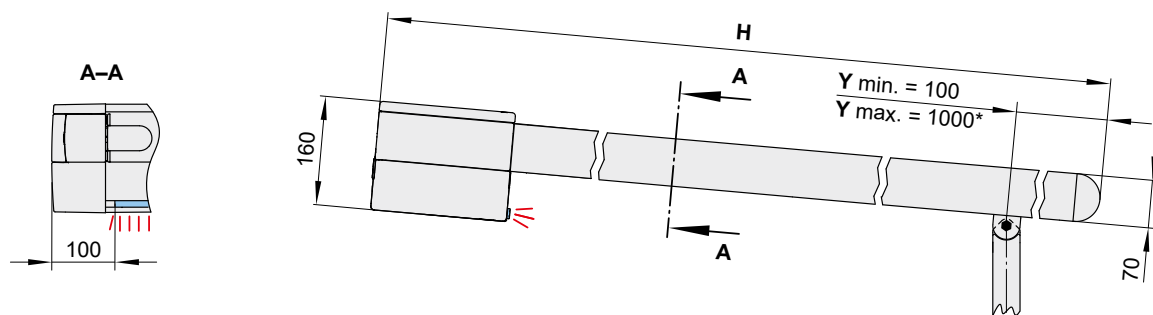
Dimension overview with the various lighting options

Option 4: LED Spots attached to the lighting bar, electronics in the lighting bar

Option 5: LED Spots attached to the lighting bar and LED Line under the guide tracks, electronics in the lighting bar



Option 6: LED Line in the cassette (can be combined with options 1-5), electronics in an E-box or in the lighting bar



* = standard dimension

H = **order dimension** = projection

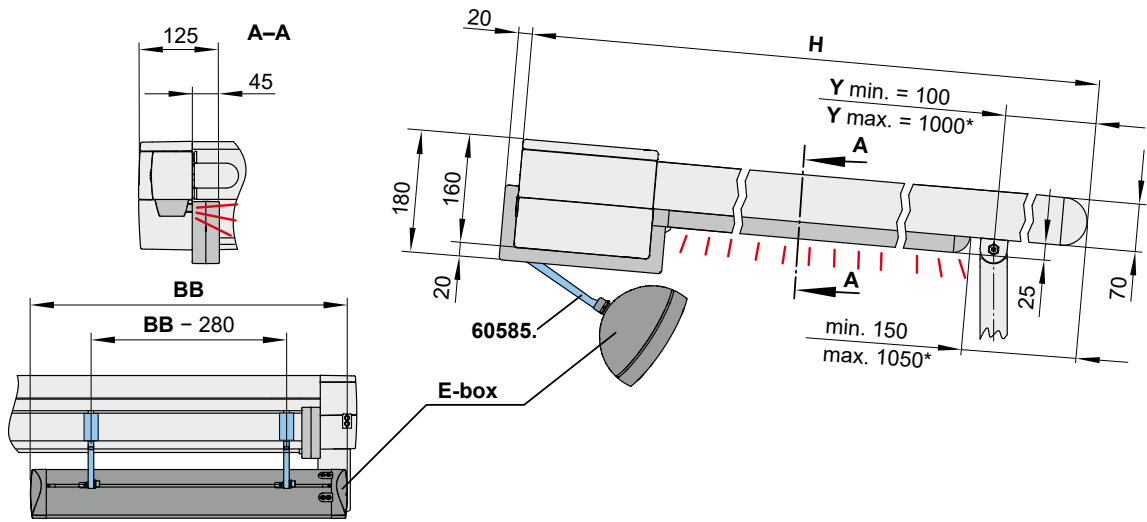
V = distance from the rear of the cassette to the centre of the cover support tube. Standard: centred ($V = H \div 2$).
Bespoke dimensions are available on request. Dimensions: min. = 700 mm, max. = 1590 mm

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

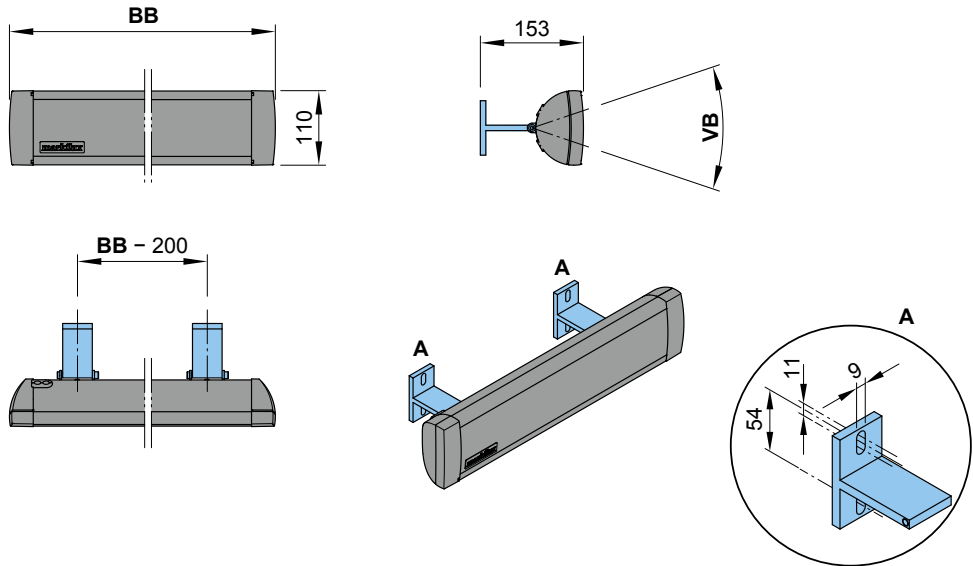
dimensions in mm

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 mm

for independent use

E-box I
71851.
BB = to order

* = standard dimension
60585. = cassette bracket E-box
BB = order width
E-box = in sizes M, G or I

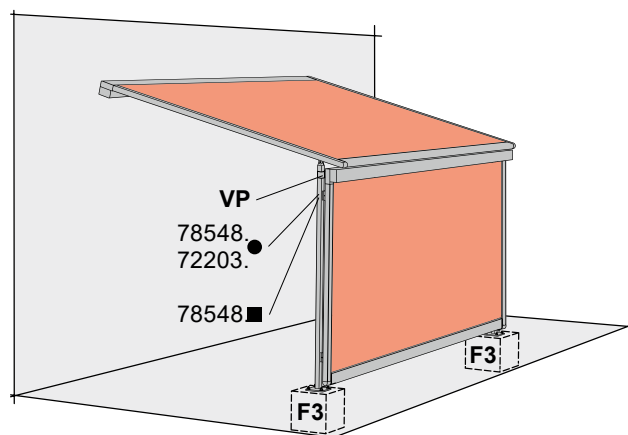
H = order dimension = projection
VB = adjustment range
Y = order dimension = possible indent dimension of support post

dimensions in mm

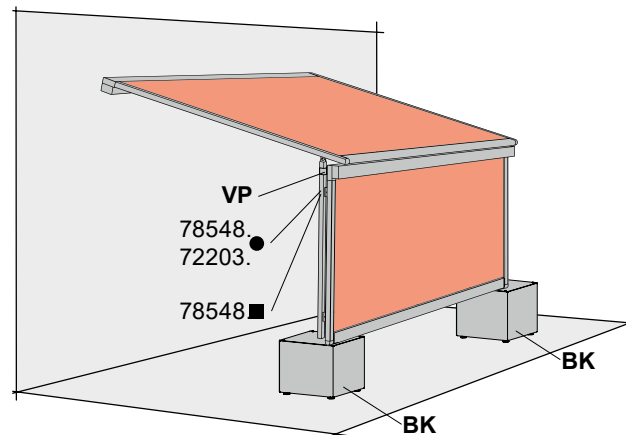
Combination options

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

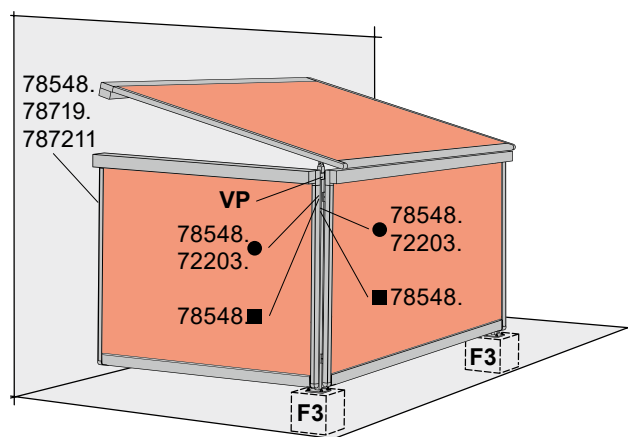
Vertical cassette blind at the front



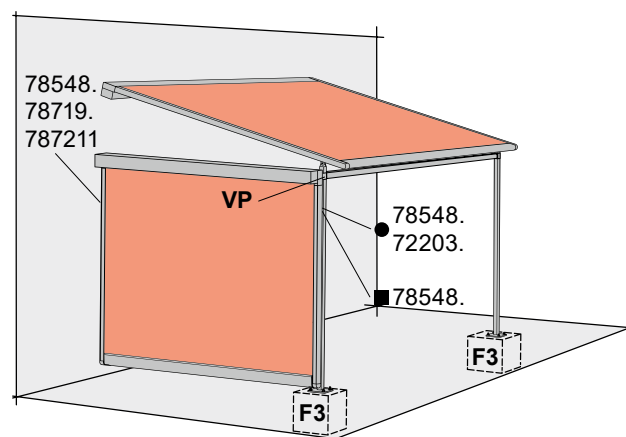
Vertical cassette blind at the front, support posts with stabilisation boxes



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

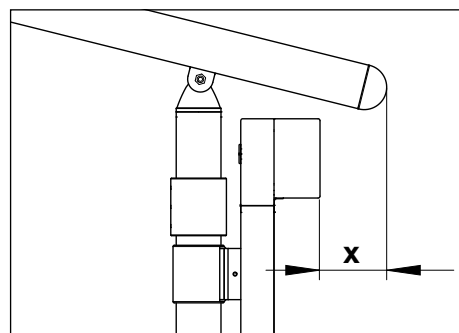


N.B! A vertical roller blind may only be installed at the side or the front if a stabilizing profile (VP) has been fitted. A front vertical cassette blind must always be mounted under the guide tracks (see fig. 1)

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



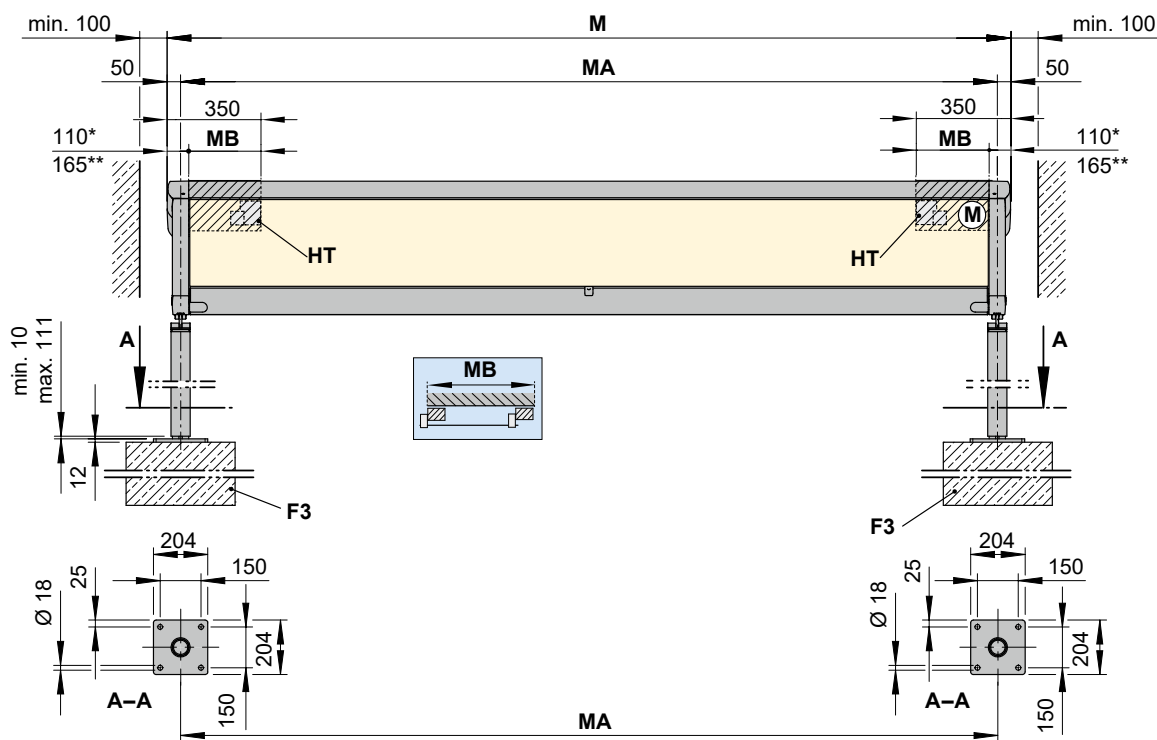
Picture 1)

- 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



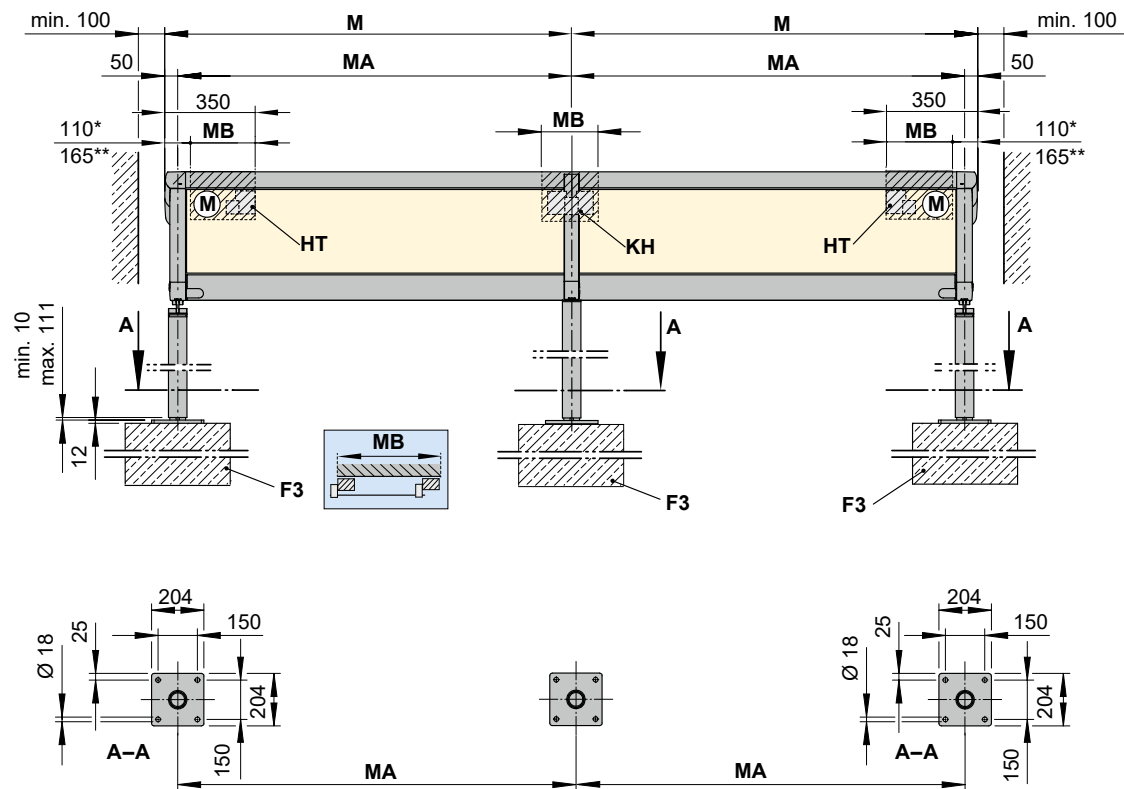
N.B.! In the case of reveal fixture a distance of at least 100 mm must be left free on each side of the awning.

- * = dimensions fixture range
- ** = dimensions fixture range for cable duct in case of lighting
- F3 = concrete foundation. Please refer to the section "Concrete foundations"
- HT = bracket
- Ⓜ = overall awning width = $MA + 10$ cm
- M = operation side, motor drive
- MA = **order dimension**= awning fixture width = fixture width
- MB = bracket fixture range

dimensions in mm

Overview of dimensions

Reveal fixture of a coupled unit



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 fixture range
- ** = dimensions fixture range 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
- Ⓜ = operation side, motor drive
- MA = **order dimension** = awning fixture width = fixture width
- MB = bracket fixture range

dimensions in mm

01

03



12

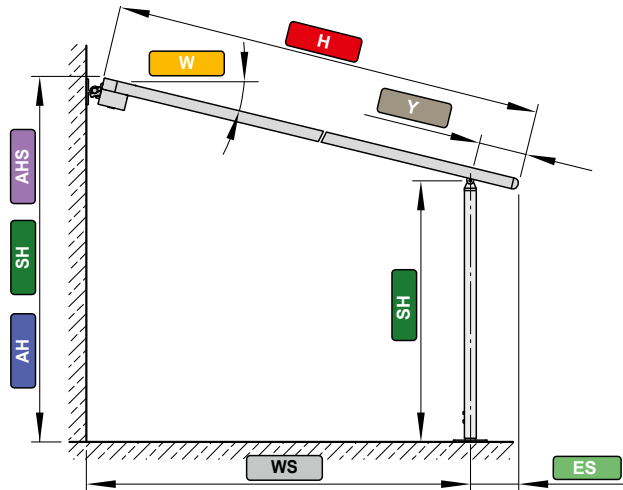


76734. = support post round with double track bracket
76432. = support post round with double track bracket
***** = dimensions fixture range
****** = dimensions fixture range for cable duct in case of lighting
BA = width between fixture points
EA = single unit
M = overall awning width = **MA** + 10 cm
MA = **order dimension**= awning fixture width = fixture width
MB = bracket fixture range
SH = support post height

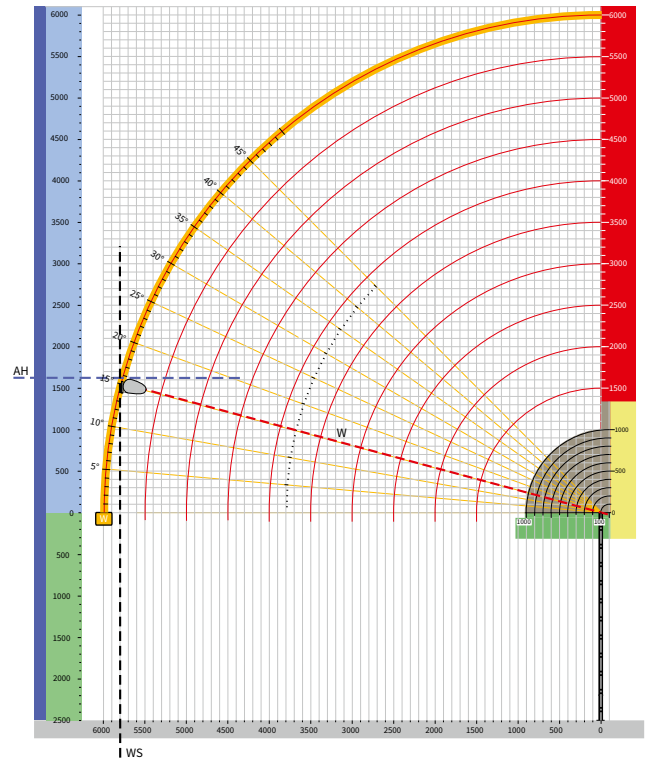
78

Calculation of the approximate fixture height, examples

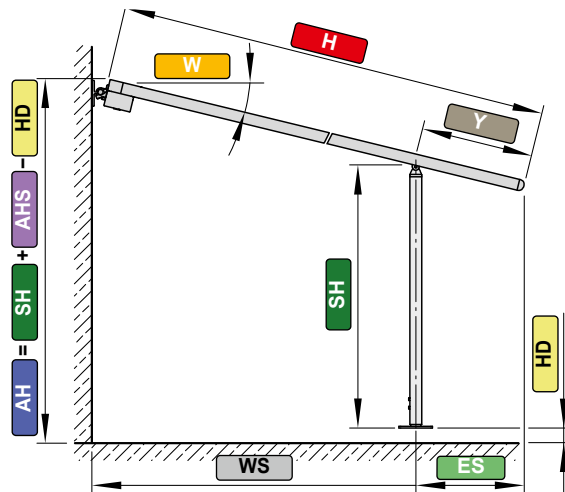
Example 1: front support posts pushed as far forward as possible, $Y = 100 \text{ mm}$



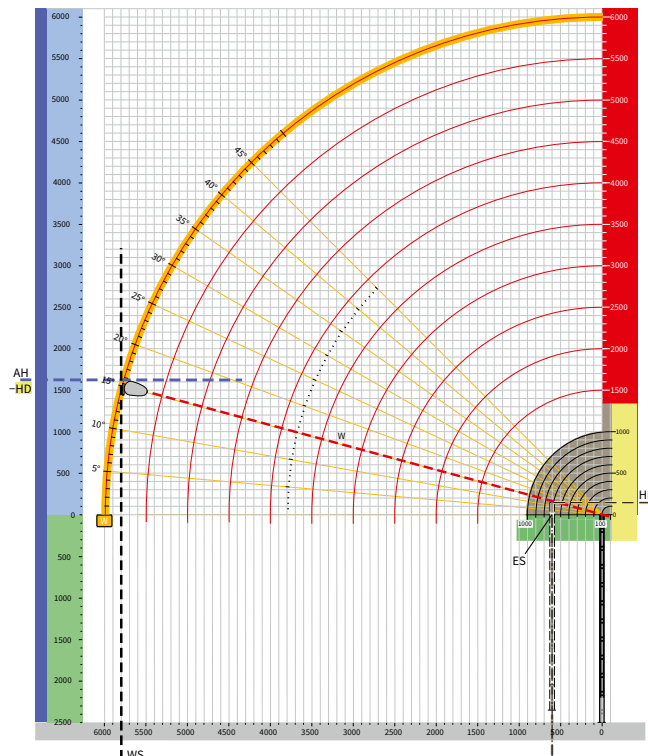
- ES = 100
- W = 15°
- H = 6000
- WS = 5800
- Y = 100
- SH = 2500
- AHS = 1620
- AH = SH + AHS = 2500 + 1620 = 4120



Example 2: front support posts pushed back, $100 \text{ mm} \leq Y \leq 1000 \text{ mm}$



- ES = 700
- W = 15°
- H = 6000
- WS = 5200
- Y = 700
- HD = 130
- SH = 2500
- AHS = 1620
- AH = SH + AHS - HD = 2500 + 1620 - 130 = 3990



ES = centre of support post to the \leftrightarrow leading edge of the front profile

W = pitch

H = extension

WS = measurement from the wall \leftrightarrow support post

Y = distance front support posts can be moved back

HD = difference from the fixture height

SH = support post height 2500 mm

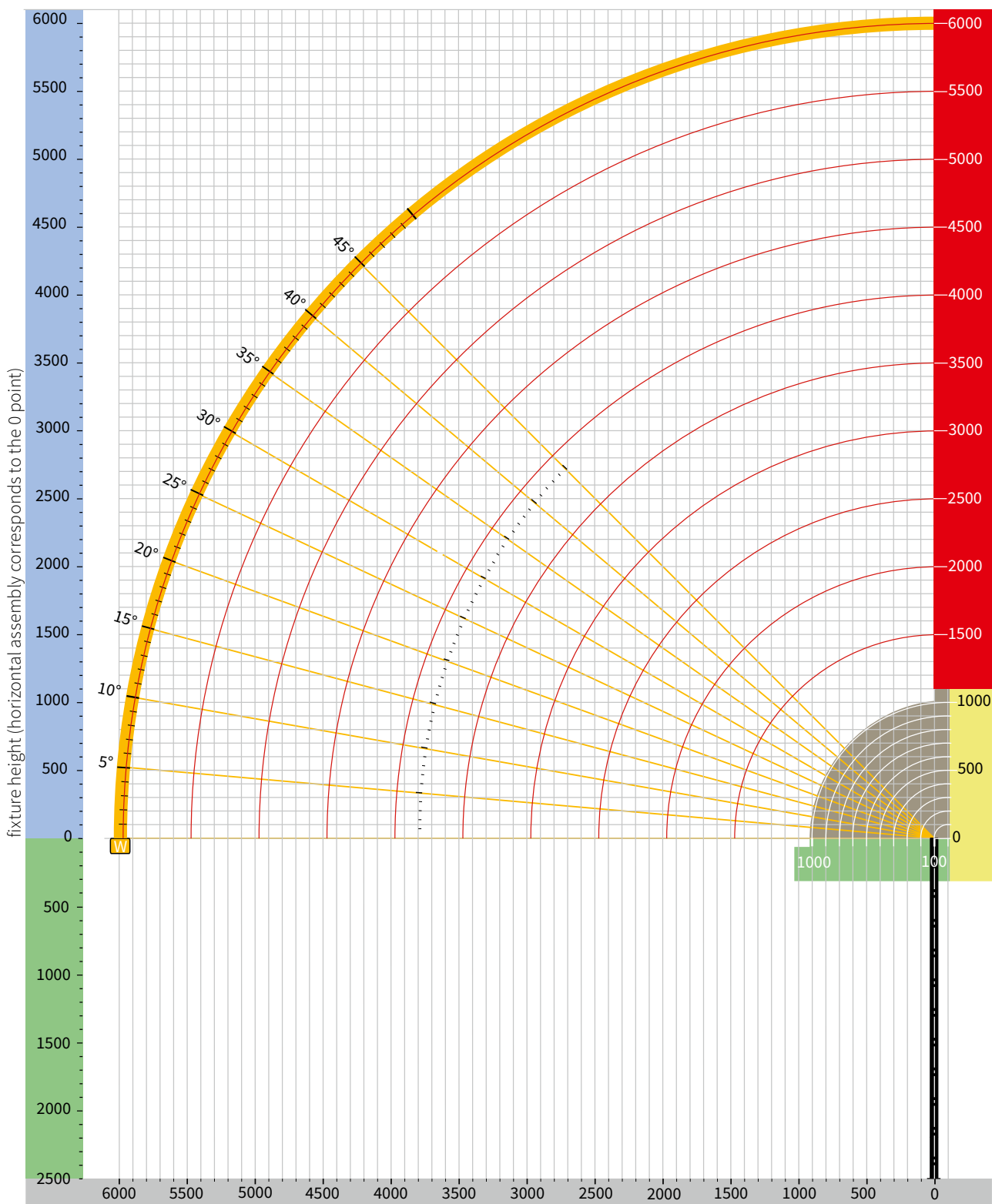
AHS = fixture height from the top edge of the support post

AH = installation height

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