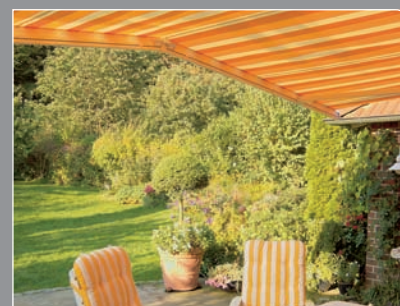


safe - timeless - beautiful



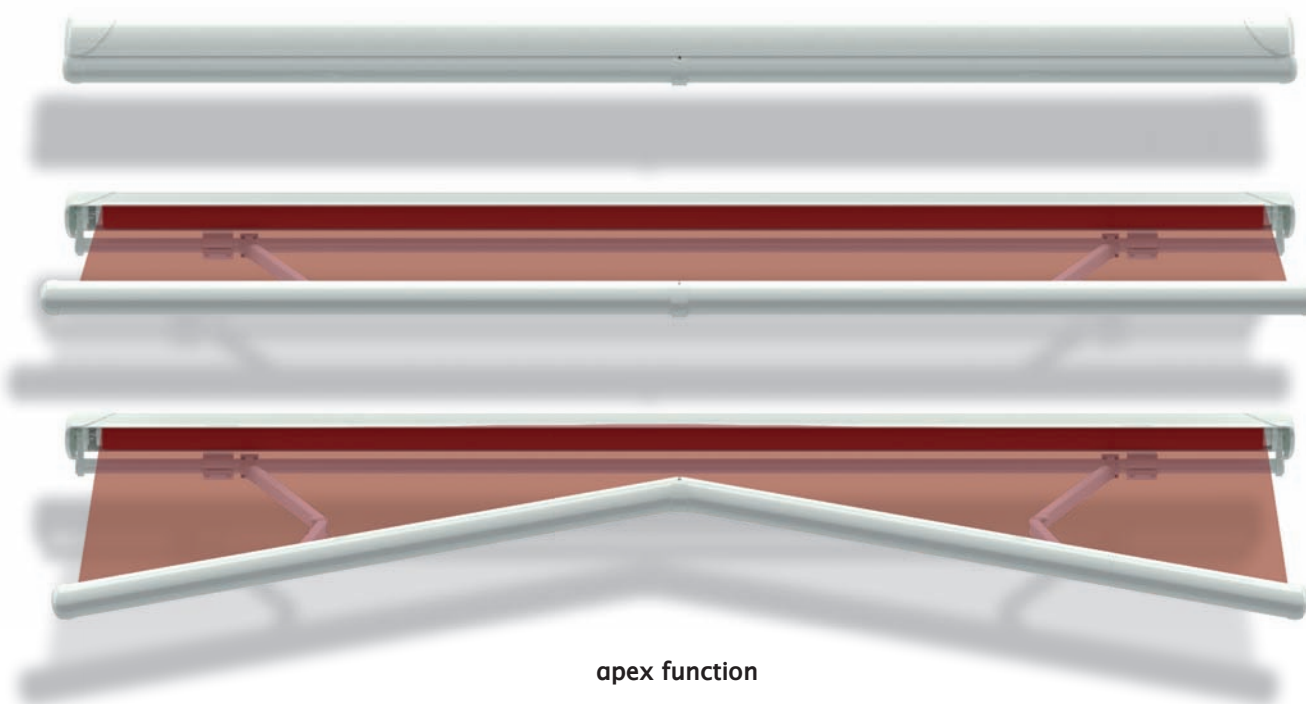
markilux 1600 pavilion 2

The first awning that allows the centre to be raised into an apex



markilux

markilux 1600 pavilion 2



markilux 1600 pavilion 2

The first awning that allows the centre to be raised into an apex

Design features

- folding-arm awning in a semi-cassette version. the dynamically rounded coverboard gives the awning the appearance of being a full cassette
- presented with the IF Design Award for excellent design
- elegant and robust front profile made of aluminium with valance slot

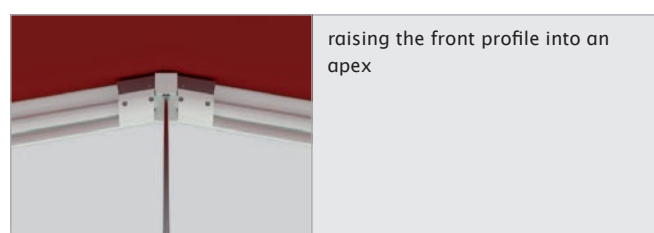
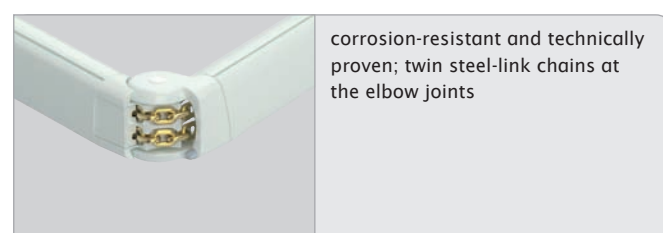
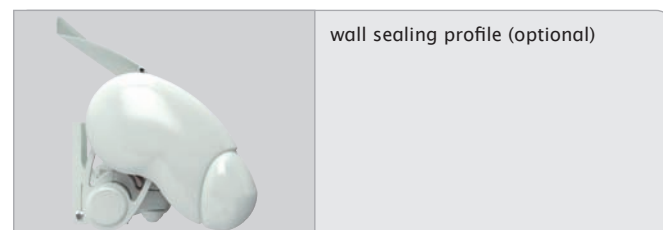
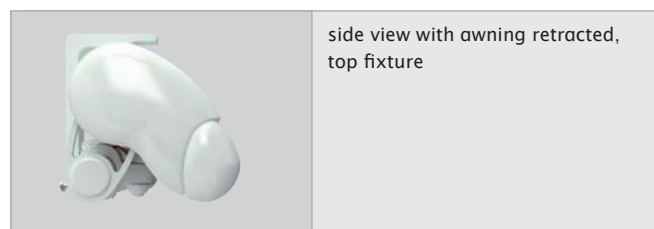
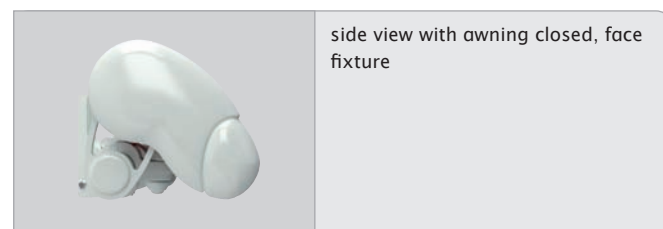
Technical highlights

- the front profile can be pushed up into a gable position with an operating rod so that rainwater can run off even when the awning is set at a low pitch. when the awning is retracted the awning returns automatically to its original position thanks to the use of specialised technology
- sturdy, round steel torque bar, 50 mm Ø, to prevent twist and deflection
- coverboard with integrated brush, so that larger pieces of dirt and debris cannot be drawn into the awning
- the 85 mm roller tube ensures the highest stiffness and the best possible cover winding characteristics even at the largest widths

Additional features

- radio-controlled motor with radio remote control for ease of use
- hard-wired motor operation (optionally with automatic weather controls) for straightforward and easy operation
- wall sealing profile to cover the gap between awning and wall
- in the case of manual operation ease of use is ensured with the spring-assisted gearbox
- awning available in non-standard RAL colours

markilux 1600 pavilion 2



Standard specification
apex function
manual operation with stainless steel winding handle
bonded awning cover
sun silk snc fabric
sun silk snc signature fabric
acrylic fabric 34

Standard frame colours
traffic white - RAL 9016
metallic aluminium - RAL 9006
grey brown - similar to RAL 8019
light ivory - RAL 1015
off-white textured finish - 5233
stone grey metallic - 5215
anthracite metallic - 5204

Optional accessories
hard-wired or radio-controlled motor with remote control
wall sealing profile
light and wind sensor
infra-red heater
Vibrabox / Sunis light sensor
special powder-coated finish

www.markilux.com

General Information
markilux Collection
Specification
markilux ES-1
markilux 6000
markilux 5010
markilux 3300 / 3300 pur
markilux 990
markilux 1200
markilux 1200 stretch
markilux 1500
markilux 1550
markilux 1600
markilux 1600 stretch
markilux 1600 pavilion 2
markilux 1650
markilux 930 swing
markilux 1000
markilux 1000 stretch
markilux 1100
markilux 1300
markilux 1300 stretch
markilux 790
markilux 75
Optional Accessories
Technical Information
Fitting Accessories

markilux 1600 pavilion 2

Lounge style line**off-white textured finish****stone grey metallic****anthracite metallic****Frame colours**

off-white textured finish - 5233

stone grey metallic - 5215

anthracite metallic - 5204

End caps alternatively in

polished chrome



markilux 1600 pavilion 2

Dimensions and configuration options

projection	awning width							minimum widths standard arms	
	360	410	460	510	560	610	660	motor operation ¹⁾	manual operation ¹⁾
250	350-360	361-410	411-460	461-510	511-560	561-610	611-660	350	350
300		2)						400	400
350			2)					450	450

- 1) the dimensions are only valid for fixture without spreader plates (2 folding arms)
2) please note the minimum widths!

dimensions in cm

 = available, 2 folding arms = available, 2 folding arms, 1 rolltex bearing

Operation

manual operation with stainless steel winding handle	●
servo-assisted operation	○
hard-wired motor	○
radio-controlled motor	○*

Shadeplus / drop valance

manual operation	—
hard-wired motor	—
radio-controlled motor	—

Lighting

halogen spotlights	—
--------------------	---

Covers

sunsilk snc (fabric series 324xx/329xx)	●
sunsilk snc signature (fabric series 369xx)	●
acrylic 34 (fabric series 341xx-347xx)	●
widely woven acrylic (fabric series 349xx)	—
sunsilk perla FR (fabric series 374xx/379xx)	○
transolair (fabric series 339xx)	—
Soltis 92	—
PVC fabric	—

Miscellaneous

coverboard	—
system coverboard	—
wall sealing profile	○ ¹
pitch adjustment gear	—
insertable side blind	○
light and wind sensor	○
valance	—
infra-red heater	○
Vibrabox / Sunis light sensor	○

Coupled units

coupled unit, 2 fields	—
coupled unit, 3 fields	—
junction roller	—
one-piece cover (on request)	—

- = standard specification
○ = optional accessories
— = not available
○* = radio-controlled motor using 433 MHz technology
○¹ = wall sealing profile effective up to a maximum awning pitch of 10°

Housing tolerances / Awning cover dimensions	width		projection
	motor	manual operation	
housing tolerance	+0 / -10		
awning cover width = width less	260	280	
awning cover length = awning projection plus			180

dimensions in mm

The width of the awning cover is always **less** than the width of the awning.**Pitch adjustment range:** from 0° to 10° (to the horizontal).**Definition of the projection:** Please consult the section "Technical Information".In the case of manual operation **approximately 16 winding handle revolutions can be assumed per metre of awning projection.**The extension time in the case of **motor operation** is approx. **12 seconds per metre.**

Coupled folding-arm awnings are not available in this model.

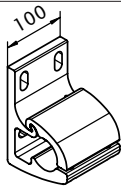
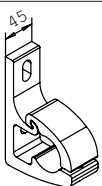
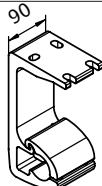
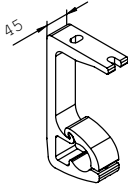
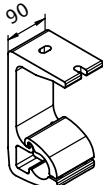
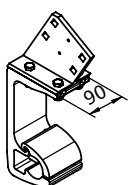
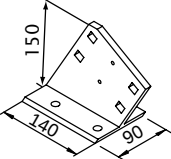
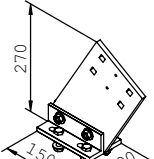
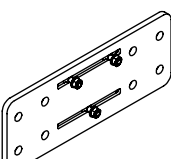
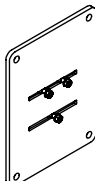
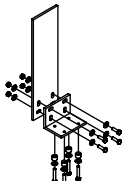
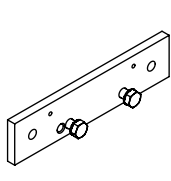
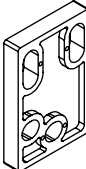
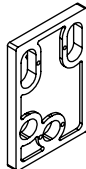
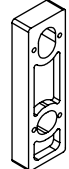
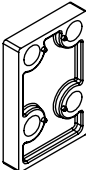
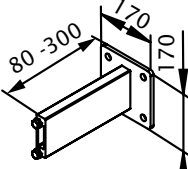
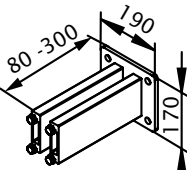
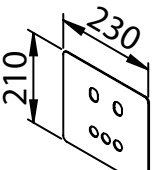
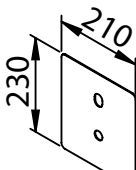
Frame colours

traffic white - RAL 9016		●
metallic aluminium - RAL 9006		●
grey brown - similar to RAL 8019		●
light ivory - RAL 1015		●
off-white textured finish - 5233 (Lounge)		●
nano stone grey metallic - 5215 (Lounge)		●
anthracite metallic - 5204 (Lounge)		●
special powder-coated finish		○

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

markilux 1600 pavilion 2

Fixtures, fittings and accessories

 Face fixture bracket assembly 100 mm 70867.	 Face fixture bracket assembly 45 mm 71813.	 Top fixture bracket assembly 90 mm 70868.
 Top fixture bracket assembly 45 mm 71818.	 Top fixture bracket assembly for central fixture 70869.	 Eaves fixture bracket assembly 90 mm complete set 70871.
 Eaves fixture bracket 150 mm 71612.	 Eaves fixture bracket assembly 270 mm 71659.	 Spreader plate A (including bracket bolts) 160 x 430 x 12 mm 75326.
 Spreader plate B 300 x 400 x 12 mm 75325.	 Flat plate and angled bracket for eaves fixture machine finish 716620	 Additional eaves fixture plate assembly 60 x 260 x 12 mm 75383.
 Spacer plate for face fixture 100 x 150 x 20 mm N.B.! stack to a max. of 200 mm (please refer to the section "Technical Information") 718231	 Spacer plate for face fixture 100 x 150 x 12 mm (please refer to the section "Technical Information") 718241	 Spacer plate for face fixture 45 x 150 x 20 mm N.B.! stack to a max. of 200 mm (please refer to the section "Technical Information") 718251
 Spacer plate for face fixture 45 x 150 x 12 mm (please refer to the section "Technical Information") 71826.	 Spacer plate for top fixture 90 x 140 x 20 mm N.B.! stack to a max. of 200 mm (please refer to the section "Technical Information") 716311	 Spacer plate for top fixture 90 x 140 x 12 mm (please refer to the section "Technical Information") 716411
 Spacer plate for top fixture 45 x 140 x 20 mm N.B.! stack to a max. of 200 mm (please refer to the section "Technical Information") 716261	 Spacer plate for top fixture 45 x 140 x 12 mm (please refer to the section "Technical Information") 716371	 Spacer bracket for face fixture bracket 71813. (please refer to the section "Technical Information") 77967.
 Spacer bracket for face fixture bracket 70867. (please refer to the section "Technical Information") 77968.	 Cover plate for installation with spacer plates and spacer brackets in the case of external insulation 210 x 230 x 2 mm (please refer to the section "Technical Information") 71843.	 Cover plate for installation with spacer plates and spacer brackets in the case of external insulation 230 x 210 x 2 mm (please refer to the section "Technical Information") 71844.

. = Please insert the RAL No. (please refer to the section on "Coatings")

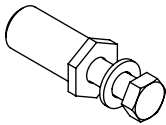
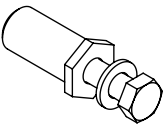
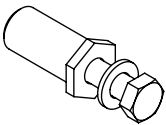
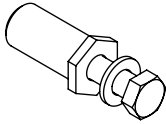
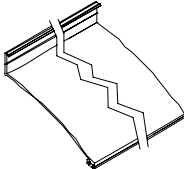
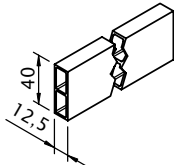
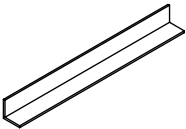
markilux 1600 pavilion 2

markilux
Collection

Specification

markilux
ES-1markilux
6000markilux
5010markilux
3300 /
3300 purmarkilux
990markilux
1200markilux
1200 stretchmarkilux
1500markilux
1550markilux
1600markilux
1600 stretch**markilux**
1600 pavilion 2markilux
1650markilux
930 swingmarkilux
1000markilux
1000 stretchmarkilux
1100markilux
1300markilux
1300 stretchmarkilux
790markilux
75Optional
AccessoriesTechnical
InformationFitting
Accessories

Fixtures, fittings and accessories

 753891	Bolt reduction assembly M 16 - M 12 / SW 27 50 mm length (please refer to the section "Technical Information")	 754921	Bolt reduction assembly M 16 - M 10 / SW 27 50 mm length (please refer to the section "Technical Information")	 754911	Bolt reduction assembly M 12 - M 10 / SW 27 50 mm length (please refer to the section "Technical Information")
 754901	Bolt reduction assembly M 10 - M 10 / SW 27 50 mm length (please refer to the section "Technical Information")	 77780.	Wall sealing profile available by the metre fixture example: see face fixture with wall sealing profile	 751971	Stand-off strip for wall sealing profile available by the metre fixture example: see face fixture with wall sealing profile
 79380.	Angled profile for eaves fixture, 100 x 100 mm available by the metre, undrilled 793800 machine finish				

. = Please insert the RAL No. (please refer to the section on "Coatings")

markilux 1600 pavilion 2

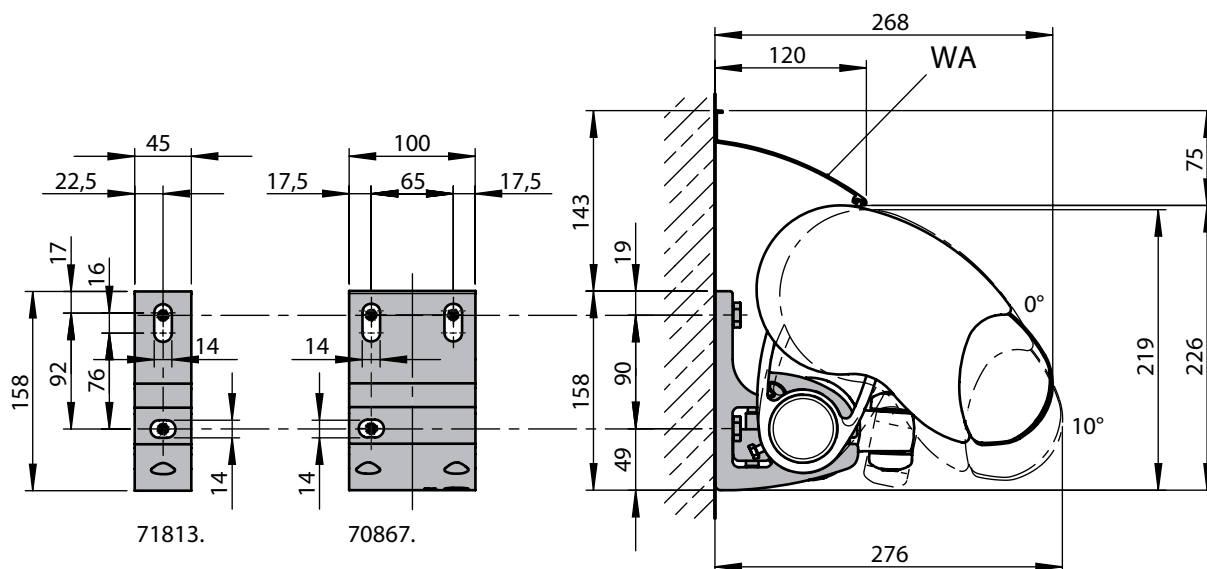
Face fixture

Pull-out force [N=Newton] per upper fixture point according to EN 13561, wind resistance class 2

compression-proof substrate								non compression-proof substrate							
H [cm]	M [cm]							M [cm]							
	360	410	460	510	560	610	660	360	410	460	510	560	610	660	
FB [N]								FB [N]							
250	1433	1594	1754	1914	2075	2235	2677	1959	2178	2397	2616	2835	3055	3658	
300	---	2128	2344	2560	3118	3366	3614	---	2909	3204	3499	4261	4600	4939	
350	---	---	3392	3715	4039	4362	---	---	---	4636	5078	5519	5961	---	
HT BHT	2 100 mm		2 100 mm					2 100 mm		2 100 mm					
	---		1 45 mm					---		1 45 mm					
BM	6		8					6		8					

The pull-out force refers to the vertical centre to centre measurement between the fixture points of 90 mm. If this measurement is reduced, the pull-out force increases by 11% in the case of **compression-proof substrates** and by 19% in the case of **non-compression-proof substrates**.

- M = overall awning width
 H = projection
 FB = pull-out force per fixing point
 HT | BHT = bracket quantity | width
 BM = no. of fixing points
 WA = wall sealing profile
 71813. = face fixture bracket assembly 45 mm
 70867. = face fixture bracket assembly 100 mm



dimensions in mm

markilux 1600 pavilion 2

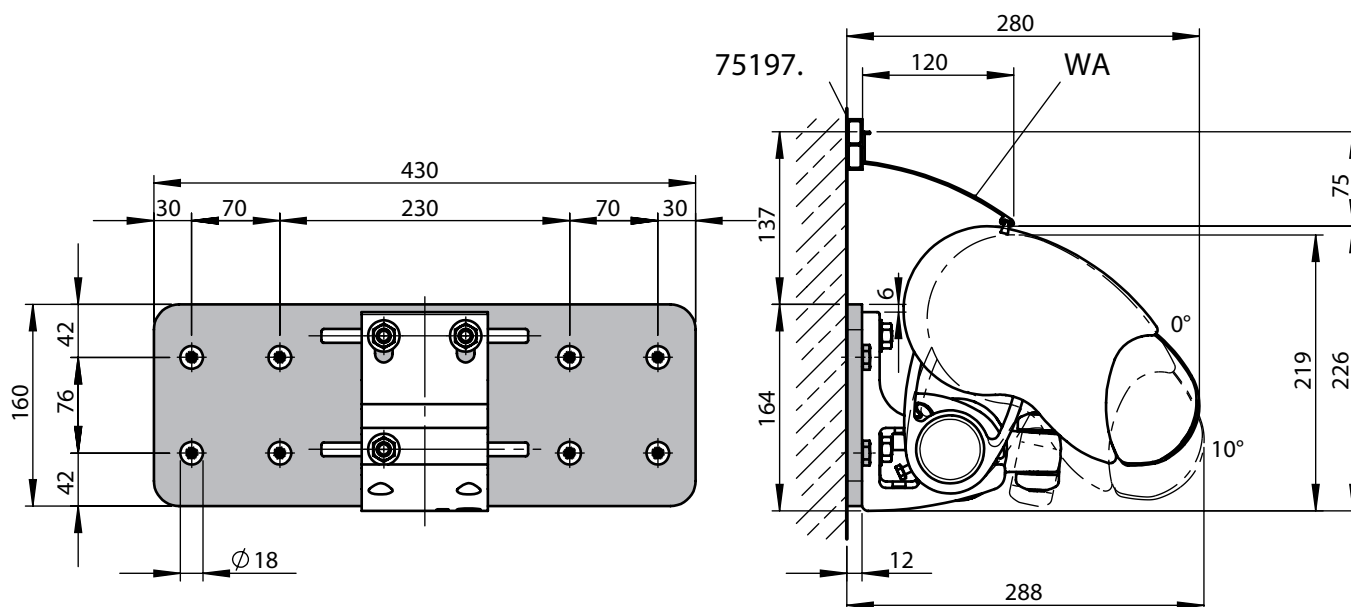
Face fixture with spreader plate A

Pull-out force [N=Newton] per upper fixture point according to EN 13561, wind resistance class 2

compression-proof substrate								non compression-proof substrate							
M [cm]								M [cm]							
360 410 460 510 560 610 660								360 410 460 510 560 610 660							
H [cm]	FB [N]							FB [N]							
250	823	915	1007	1099	1191	1282	1536	1169	1300	1430	1561	1692	1822	2183	
300	---	1220	1344	1468	1787	1929	2071	---	1734	1910	2085	2540	2742	2944	
350	---	---	1943	2128	2313	2498	---	---	---	2761	3024	3287	3550	---	
HT BHT	2 100mm		2 100 mm					2 100mm		2 100 mm					
	---		1 45 mm					---		1 45 mm					
BP	2		2					2		2					
DP	---		1					---		1					
BM	16		18					16		18					

The pull-out force refers to the vertical centre to centre measurement between the fixing points of 76 mm. In the case of spreader plates a washer conforming to DIN 9021 must be used.

M = overall awning width
H = projection
FB = pull-out force per fixing point
HT | BHT = bracket quantity | width
BP = no. of spreader plates
DP = no. of spacer plates
BM = no. of fixing points
WA = wall sealing profile
75197 = stand-off strip for wall sealing profile



dimensions in mm

markilux 1600 pavilion 2

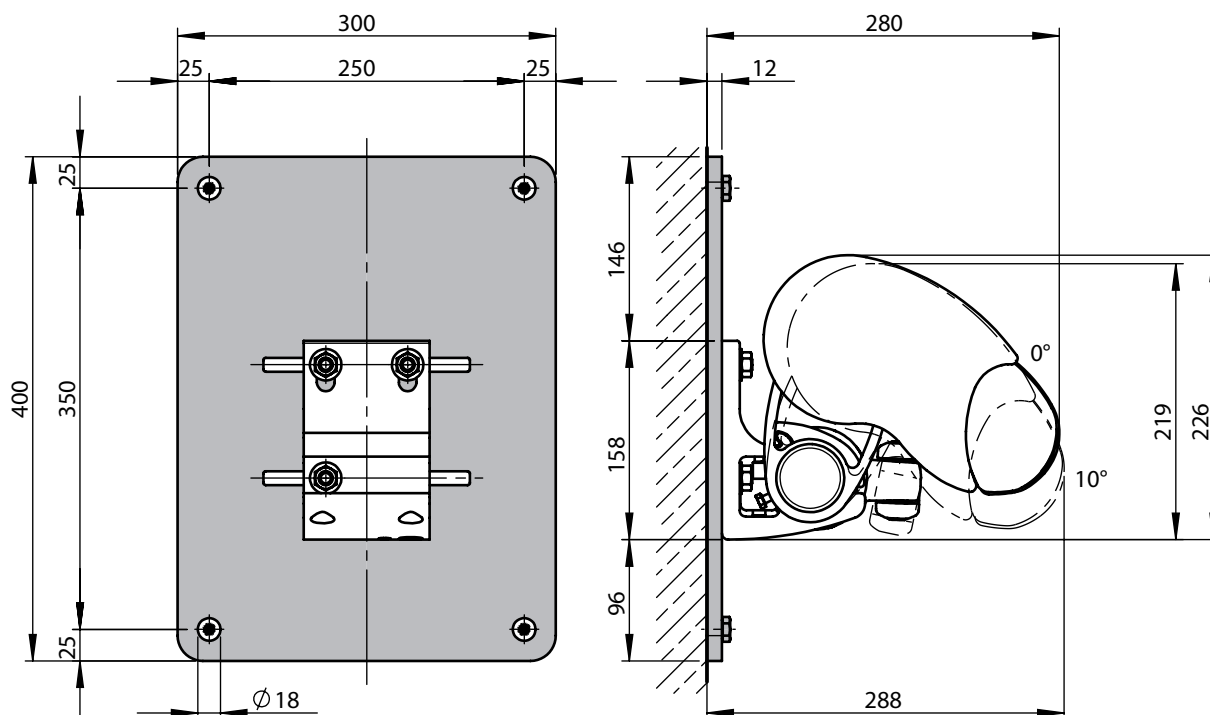
Face fixture with spreader plate B

Pull-out force [N=Newton] per upper fixture point according to EN 13561, wind resistance class 2

compression-proof substrate								non compression-proof substrate							
H [cm]	M [cm]							M [cm]							
	360	410	460	510	560	610	660	360	410	460	510	560	610	660	
FB [N]								FB [N]							
250	487	541	596	650	705	759	909	508	564	621	678	735	791	948	
300	---	722	795	868	1058	1142	1226	---	753	829	906	1103	1191	1278	
350	---	---	1150	1259	1369	1478	---	---	---	1199	1313	1428	1542	---	
HT BHT	2 100mm		2 100 mm					2 100mm		2 100 mm					
	---		1 45 mm					---		1 45 mm					
BP	2		2					2		2					
DP	---		1					---		1					
BM	8		10					8		10					

The pull-out force refers to the vertical centre to centre measurement between the fixing points of 350 mm. In the case of spreader plates a washer conforming to DIN 9021 must be used.

- M = overall awning width
 H = projection
 FB = pull-out force per fixing point
 HT | BHT = bracket quantity | width
 BP = no. of spreader plates
 DP = no. of spacer plates
 BM = no. of fixing points



dimensions in mm

markilux 1600 pavilion 2

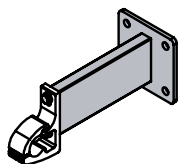
Face fixture with stand-off brackets

Pull-out force [N=Newton] per upper fixture point according to EN 13561, wind resistance class 2

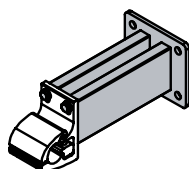
compression-proof substrate								non compression-proof substrate							
M [cm]								M [cm]							
360 410 460 510 560 610 660								360 410 460 510 560 610 660							
H [cm]	FB [N]							FB [N]							
250	1560	1733	1906	2080	2253	2426	2914	1755	1950	2145	2340	2535	2730	3278	
300	---	2260	2488	2716	3315	3578	3841	---	2542	2799	3056	3730	4026	4321	
350	---	---	3544	3880	4217	4554	---	---	---	3987	4366	4744	5123	---	
HT BHT	2 100mm	2 100 mm						2 100mm	2 100 mm						
	---	1 45 mm						---	1 45 mm						
DH 77968.	2	2						2	2						
DH 77967.	---	1						---	1						
BM	8	12						8	12						

The pull-out force refers to the vertical centre to centre measurement between the fixing points of 120 mm. In the case of spacer plates a washer conforming to DIN 9021 must be used.

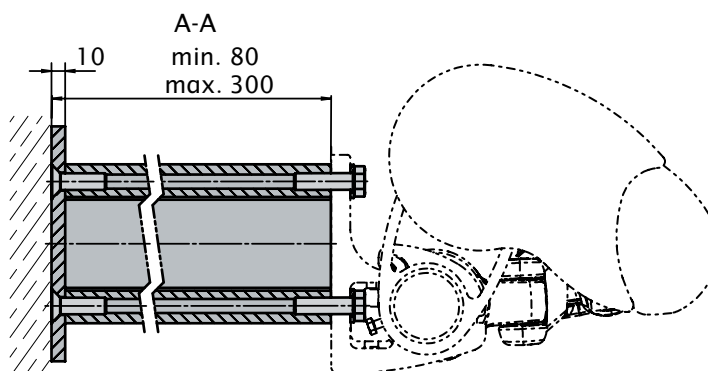
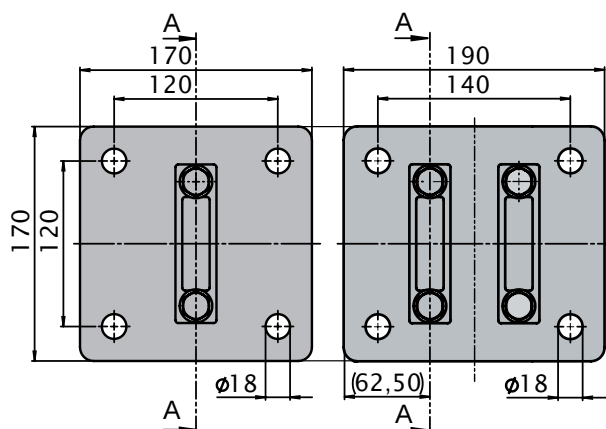
M = overall awning width
H = projection
FB = pull-out force per fixing point
HT | BHT = bracket quantity | width
BM = no. of fixing points
DH = no. of spacer brackets
77967. = spacer bracket for face fixture bracket 71813.
77968. = spacer bracket for face fixture bracket 70867.



77967.



77968.



dimensions in mm

markilux 1600 pavilion 2

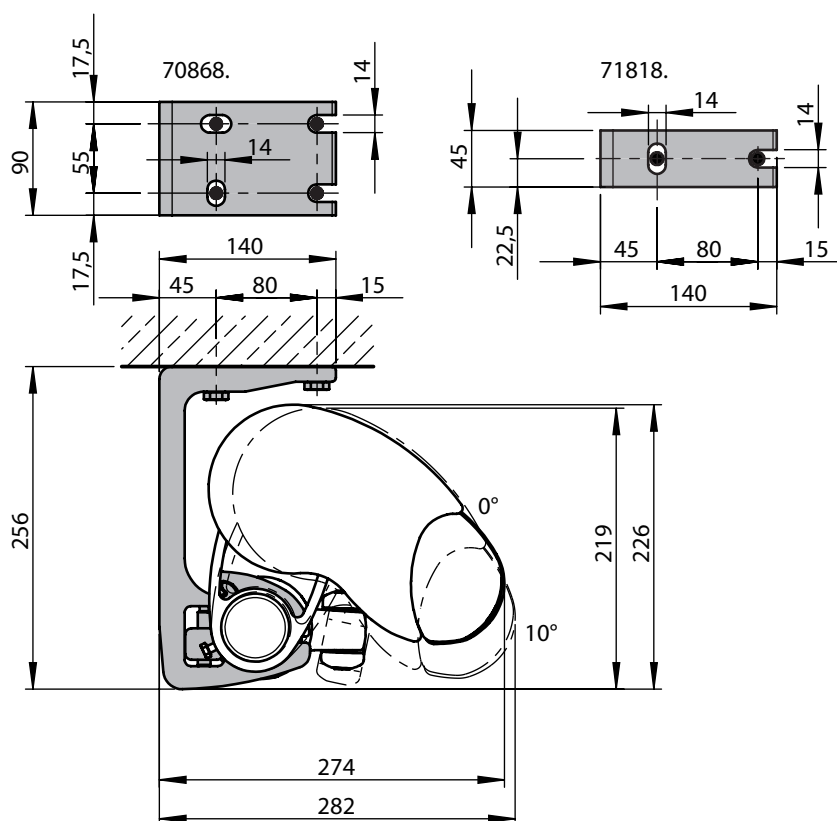
Top fixture

Pull-out force [N=Newton] per upper fixture point according to EN 13561, wind resistance class 2

compression-proof substrate								non compression-proof substrate							
H [cm]	M [cm]							M [cm]							
	360	410	460	510	560	610	660	360	410	460	510	560	610	660	
FB [N]								FB [N]							
250	1769	1970	2170	2370	2570	2771	3300	2294	2553	2812	3071	3330	3589	4280	
300	---	2596	2861	3127	3792	4095	4398	---	3375	3719	4064	4933	5327	5721	
350	---	---	4089	4480	4871	5262	---	---	---	5331	5840	6349	6859	---	
HT BHT	2 90 mm		2 90 mm					2 90 mm		2 90 mm					
	---		1 45 mm					---		1 45 mm					
BM	8		10					8		10					

The pull-out force refers to the horizontal centre to centre measurement between the fixture points of 80 mm. If the awning is fitted with two brackets per folding arm the pull-out force may be halved. Position the brackets to the left and right of the arm bearer.

- M = overall awning width
 H = projection
 FB = pull-out force per fixing point
 HT | BHT = bracket quantity | width
 BM = no. of fixing points
 70868. = top fixture bracket assembly 90 mm
 71818. = top fixture bracket assembly 45 mm



dimensions in mm

markilux 1600 pavilion 2

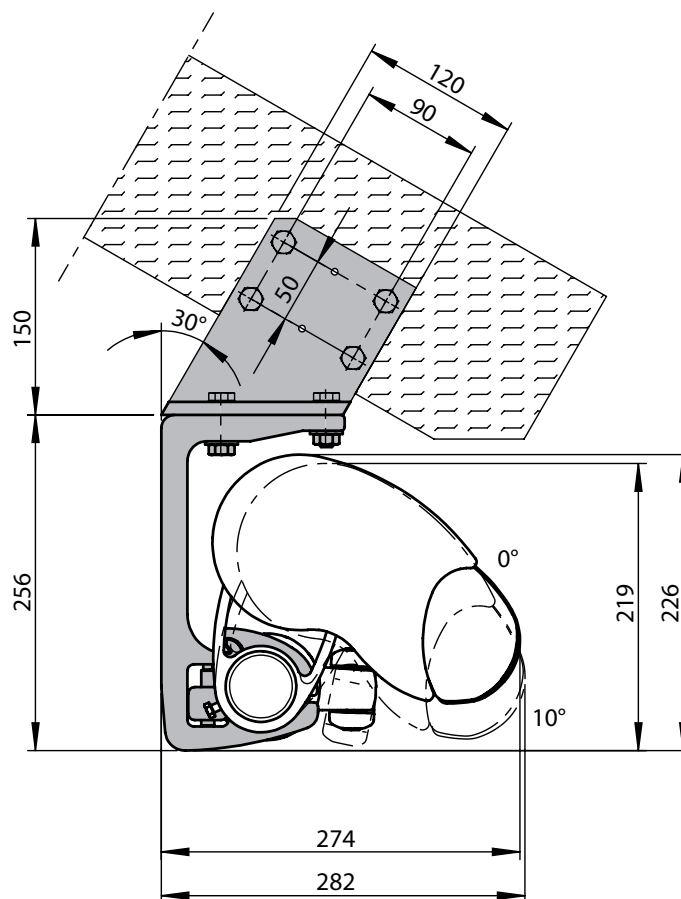
Eaves fixture

Torque [Nm = Newton metres] for the fixture bracket next to the arm, shear force [N = Newton] per fixing point according to EN 13561, wind resistance class 2

H [cm]	Torque							Shear force						
	M [cm]							M [cm]						
	360	410	460	510	560	610	660	360	410	460	510	560	610	660
Md [Nm]								FS [N]						
250	124	142	160	177	195	213	231	4098	4561	5025	5488	5951	6414	7646
300	---	219	247	274	302	330	357	---	6022	6638	7253	8801	9504	10207
350	---	---	432	471	510	550	---	---	---	9503	10411	11319	12227	---
HT	2		3					2		3				
BM	8		12					8		12				

The shear force is calculated on the basis of 2 fixing points per bracket, because - depending on the roof pitch - it cannot be guaranteed that 4 fixing points per bracket can be used.

- M = overall awning width
 H = projection
 Md = torque value for the bracket in the immediate vicinity of the arm
 HT = bracket
 FS = shear force
 BM = no. of fixing points

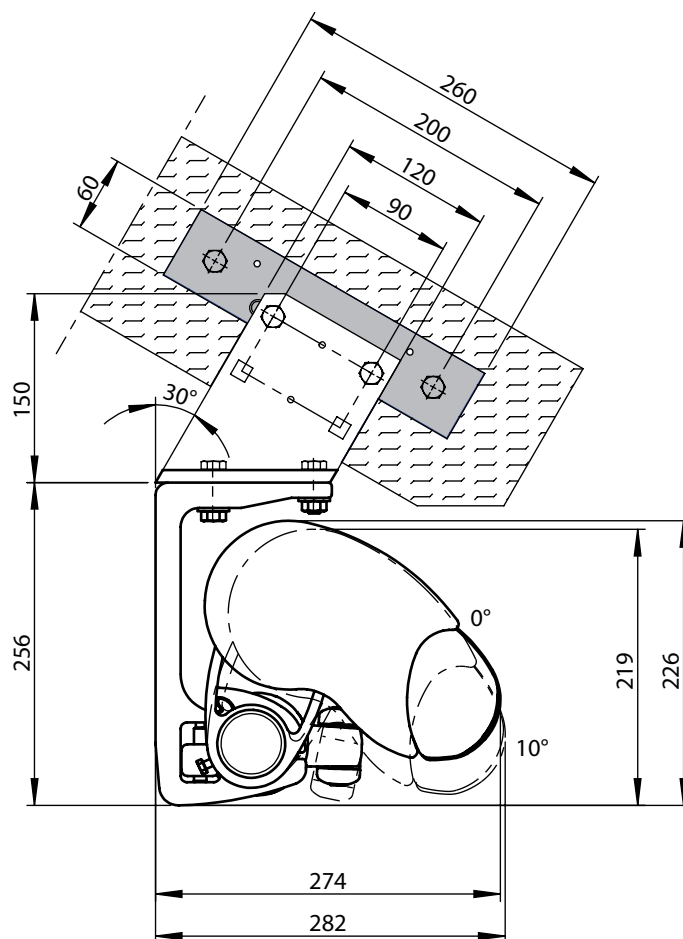


dimensions in mm

Eaves fixture with additional plate

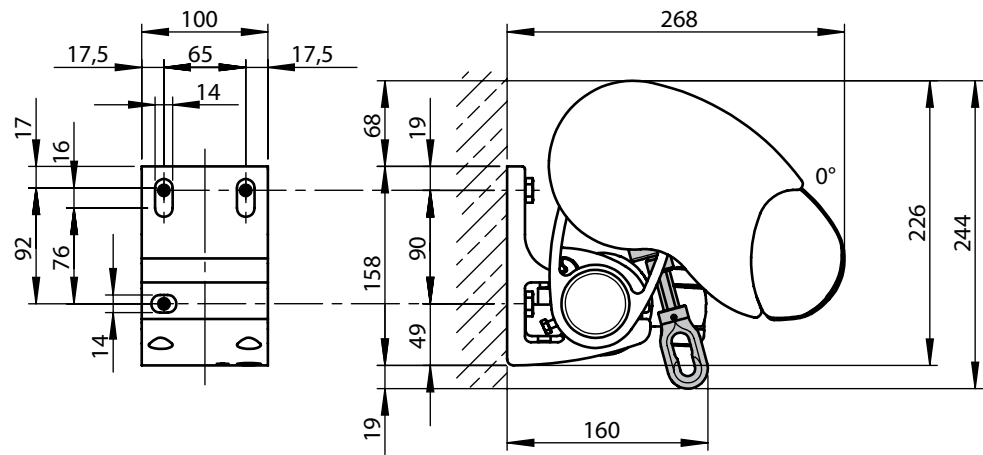
	Torque							Shear force						
	M [cm]							M [cm]						
	360	410	460	510	560	610	660	360	410	460	510	560	610	660
H [cm]	Md [Nm]							FS [N]						
250	124	142	160	177	195	213	231	1943	2165	2388	2610	2832	3054	3622
300	---	219	247	274	302	330	357	---	2823	3113	3404	4115	4445	4775
350	---	---	432	471	510	550	---	---	---	4403	4825	5247	5670	---
HT	2		3					2		3				
BM	4		6					4		6				

M = overall awning width
H = projection
Md = torque value for the bracket in the immediate vicinity of the arm
HT = bracket
FS = shear force
BM = no. of fixing points



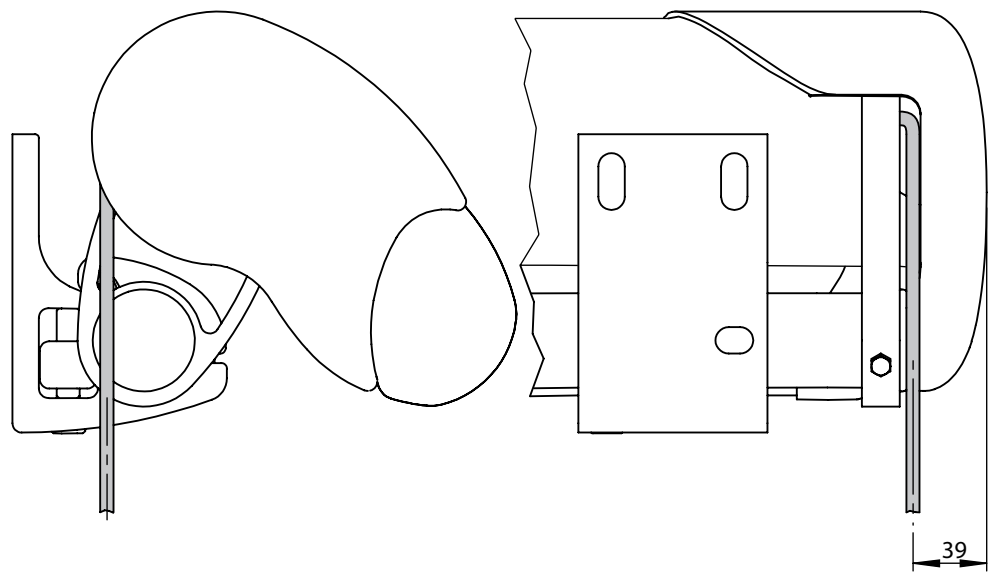
www.samsondoors.co.uk

Face fixture with manual operation



dimensions in mm

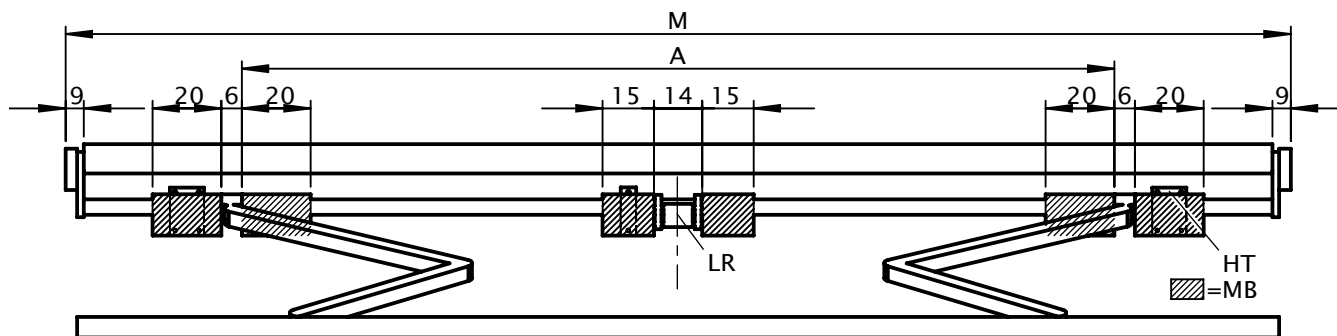
Cable exit position on motor-driven units



dimensions in mm

markilux 1600 pavilion 2

Bracket range for awnings with 2 folding arms



dimensions in cm

M [cm]	SB ZB	360 350-360	410 361-410	460 411-460	510 461-510	560 511-560	610 561-610	660 611-660
H [cm]	A [cm]							
	250	277 ▲	285	320	355	390	425	460
	300	---	327 ▲	335	355	390	425	460
W	HT BHT	45 mm	---	377 ▲	385	390	425	---
		100 mm	2					
		45 mm	---					
DE		90 mm	2					
DA		90 mm	2					

dimensions in cm

- ▲ = please note the minimum widths, dimension A is only valid for standard arms! (Dimension A is 13 cm smaller in the case of bespoke arms.)
In the case of small awnings the brackets can only be fitted inside the arms, i.e. the position denoted by measurement A.

- M = overall awning width
H = projection
A = arm position
HT = bracket
HT | BHT = bracket quantity | width
MB = bracket fixture range
W = face fixture
DE/DA = top fixture and eaves fixture
SB = standard width
ZB = intermediate width
LR = rolltex bearing with bracket is always placed under a central seam

If the brackets cannot be positioned in accordance with this table, make sure the actual measurements are noted on the order form!