



markilux 1500

**The semi-cassette awning with gas piston arm technology
Something special – and not just technically speaking**

**rated to wind resistance class 2
(corresponds to Beaufort 5)**



www.markilux.com

markilux



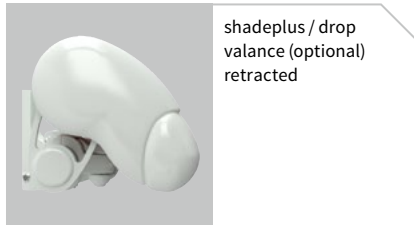
side view
with awning retracted,
face fixture



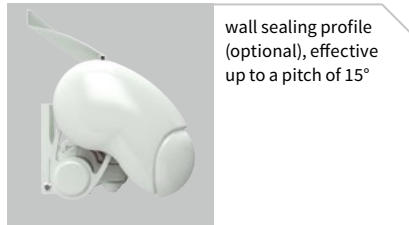
side view
with awning retracted,
top fixture



the gas piston-
tensioned arms
ensure reliable and
simple operation



shadeplus / drop
valance (optional)
retracted



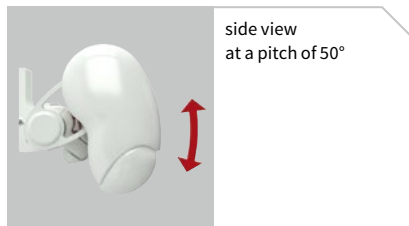
wall sealing profile
(optional), effective
up to a pitch of 15°



pitch adjustment via
the fixture brackets



side view with
winding handle,
manual operation



side view
at a pitch of 50°

Design Features

presented with the IF Design Award
for excellent design

folding-arm awning in a semi-
cassette version; the dynamically
rounded coverboard gives the
awning the appearance of being fully
cassetted

elegant and robust front profile
made of aluminium

Technical Specification

attractive ovoid folding arms with
unique gas piston technology ensure
a taut cover in every extended
position

sturdy, round steel torque bar,
50 mm Ø, to prevent twist and
deflection

folding arms with drop-forged joint
components and Teflon-coated
bronze bushes, which provide superi-
or robustness and durability

coverboard with integrated brush, so
that larger pieces of dirt and debris
cannot be drawn into the awning

awning covers made of sunsilk snc or
sunvas snc with self-cleaning effect

Optional Accessories

the shadeplus creates an additional
room on the patio. Protection from
the sun, the wind and inquisitive
glances all in one

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

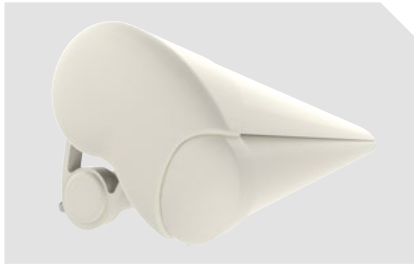
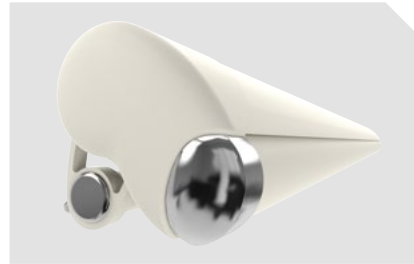
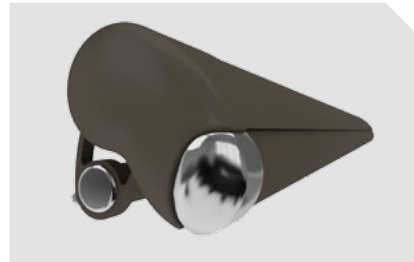
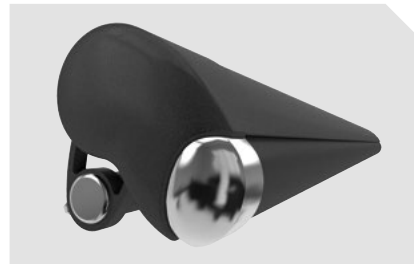
wall sealing profile to cover the gap
between awning and wall

awning available in non-standard
RAL colours

available with a valance

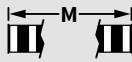
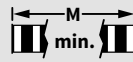
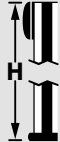
Lounge colours

markilux 1500

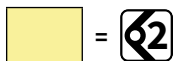
off-white textured finish 5233**stone grey metallic** 5215**Havanna brown textured finish** 5229**anthracite metallic** 5204**Designer end caps in polished chrome****off-white textured finish** 5233**stone grey metallic** 5215**Havanna brown textured finish** 5229**anthracite metallic** 5204

Colours may differ slightly from those depicted in both hue and finish.

Dimensions and configuration options

												
		260	310	360	410	460	510	560	610	660		
		193 260	261 310	311 360	361 410	411 460	461 510	511 560	561 610	611 660		
	150										193	196
	200	1)									243	246
	250	—	1)								293	296
	300	—	—	1)							343	346
	350	—	—	—	1)					—	393	396

dimensions in cm

= =  

1) note the minimum widths!

Operation / Drive

	standard	optional
manual operation	☒	—
servo-assisted operation	—	☒
hard-wired motor	—	☒
io radio controls	—	☒
radio-controlled motor (433 MHz)	—	☒

Covers

	fabric range no.	standard	optional
sun silk snc	324 .. / 328 .. / 369 ..	☒	—
sun silk perla FR	374 ..	—	☒
sun vas	310 .. / 311 .. 313 .. — 315 ..	☒	—
sun vas perla	370 ..	—	☒

Coupled units

	standard	optional
2 fields	—	☒ ³⁾
junction roller	—	☒ ⁴⁾

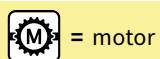
3) for minimum widths please consult the section “Technical Information”

4) see overview “Bracket fixture range”

Miscellaneous

	standard	optional
shadeplus / drop valance manual operation	—	☒
wall sealing profile	—	☒ ²⁾
light and wind sensor	—	☒
insertable side blind	—	☒
valance	—	☒
infrared heater	—	☒
vibrabox / radio control light sensor Sunis WireFree	—	☒

2) up to a maximum awning pitch of 15°



= motor



= manual operation



= no. of folding arms



= no. of rolltex bearings

M = awning width

M min. = minimum widths

H = projection

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-coated finish			

Other end cap colour options

	standard	optional
polished chrome		

Dimensions and tolerances

	width	projection
housing tolerances	+ 5 / - 15 mm	± 40 mm
awning cover width = awning width	- 260 mm	
awning cover length = awning projection		+ 180 mm

Additional information

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

Pitch adjustment range: from 5° to 50° (to the horizontal).

Definition of 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.**

It takes approximately **12 seconds per metre** to extend the awning in the case of **motor-driven units.**

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. For the maximum shadeplus drops please consult the section “Technical Information”.

A shadeplus is not available with sunsilk perla FR, sunvas perla or PVC covers.

Coupled folding-arm awnings are available up to a **max. of 2 single units** side by side, however **only with a motor.**

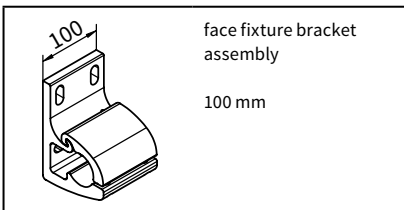
A coupled unit is available with **junction roller**. Pattern repeat mismatches are possible in the case of junction roller covers. A junction roller may not fit when the projection is the maximum for the width of each awning. (see also the section on “Installation”, the arm separation table).

If coupled awnings 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 awning to be coupled.

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

Fixtures, fittings and accessories

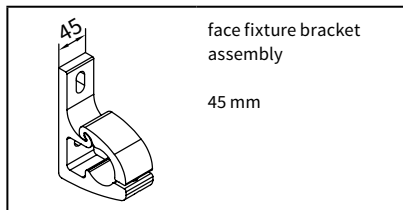
Fixture brackets



70867.

face fixture bracket
assembly

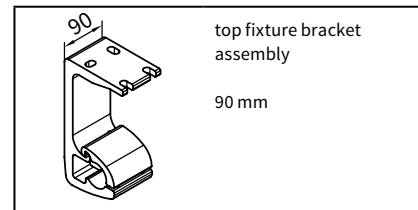
100 mm



71813.

face fixture bracket
assembly

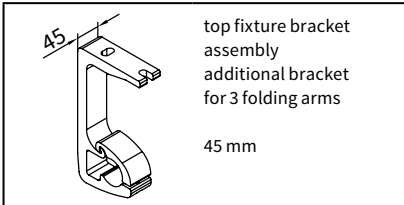
45 mm



70868.

top fixture bracket
assembly

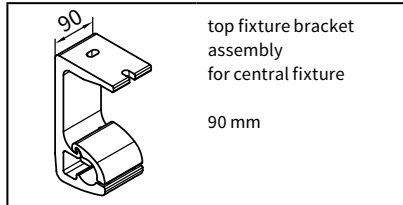
90 mm



71818.

top fixture bracket
assembly
additional bracket
for 3 folding arms

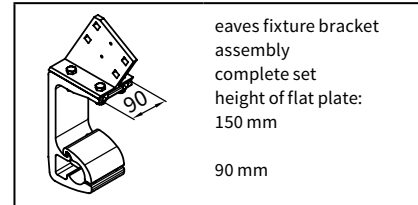
45 mm



70869.

top fixture bracket
assembly
for central fixture

90 mm

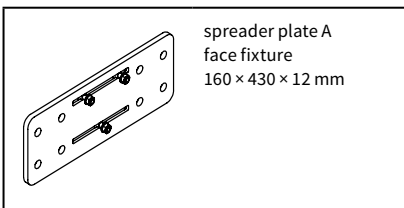


70871.

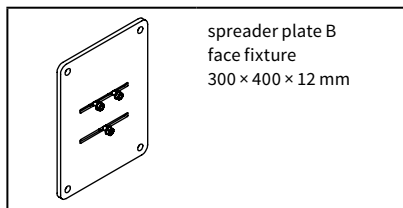
eaves fixture bracket
assembly
complete set
height of flat plate:
150 mm

90 mm

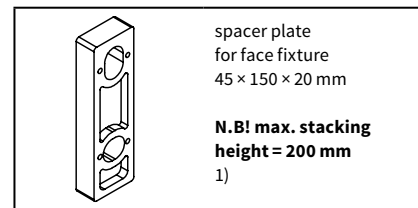
Spreader and spacer plates



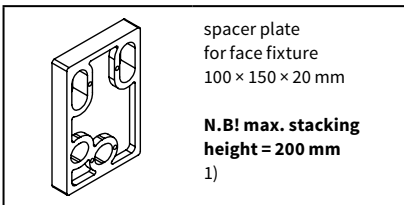
75326.

spreader plate A
face fixture
160 × 430 × 12 mm

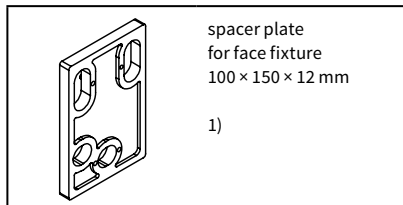
75325.

spreader plate B
face fixture
300 × 400 × 12 mm

718251

spacer plate
for face fixture
45 × 150 × 20 mm**N.B! max. stacking
height = 200 mm**
1)

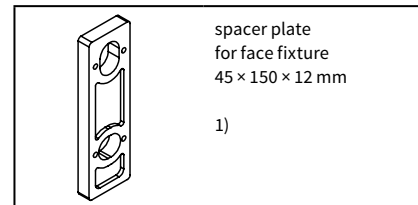
718231

spacer plate
for face fixture
100 × 150 × 20 mm**N.B! max. stacking
height = 200 mm**
1)

718241

spacer plate
for face fixture
100 × 150 × 12 mm

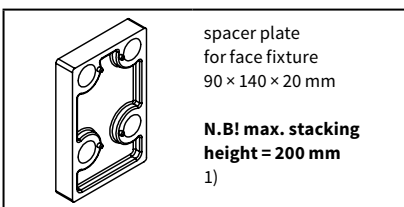
1)



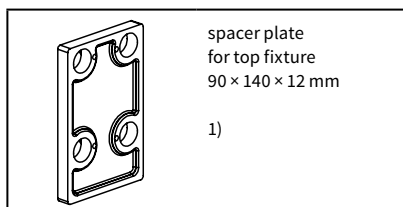
71826.

spacer plate
for face fixture
45 × 150 × 12 mm

1)



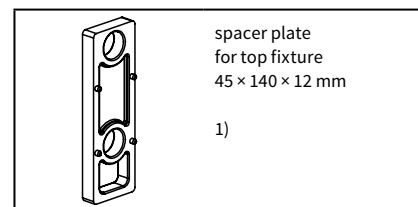
716311

spacer plate
for face fixture
90 × 140 × 20 mm**N.B! max. stacking
height = 200 mm**
1)

716411

spacer plate
for top fixture
90 × 140 × 12 mm

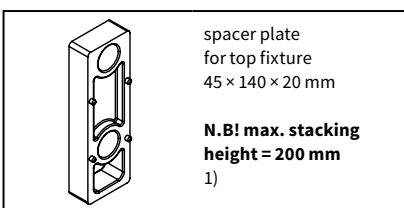
1)



716371

spacer plate
for top fixture
45 × 140 × 12 mm

1)



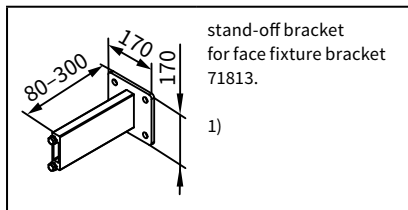
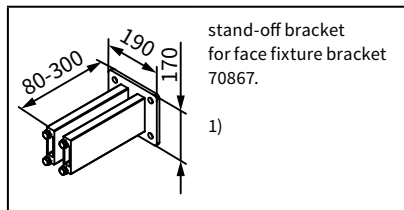
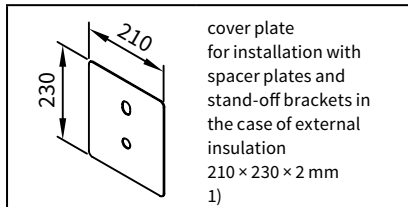
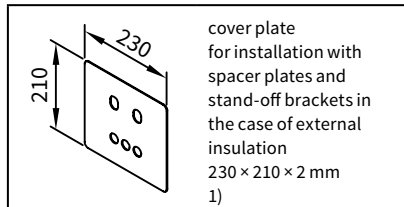
716261

spacer plate
for top fixture
45 × 140 × 20 mm**N.B! max. stacking
height = 200 mm**
1)

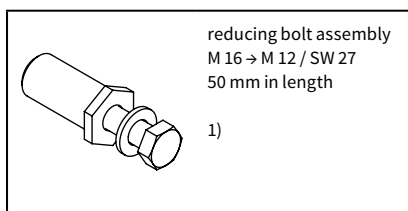
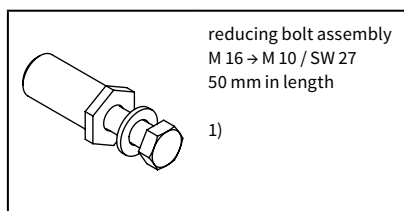
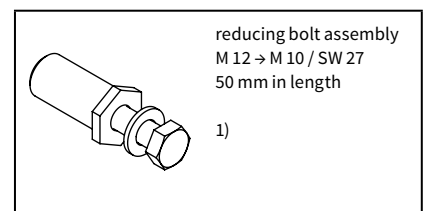
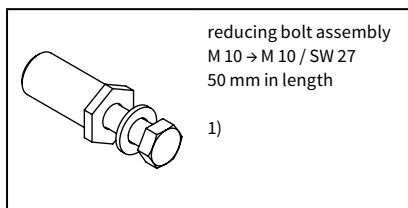
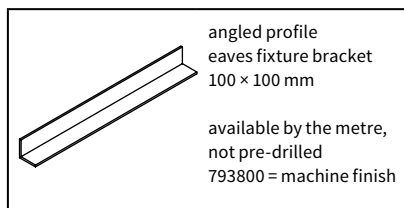
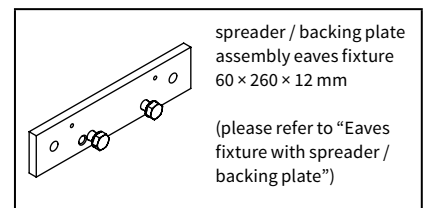
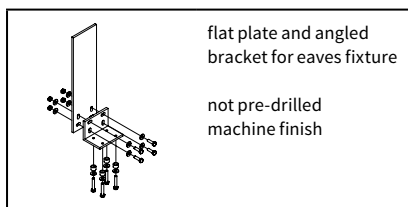
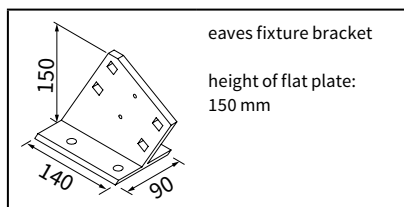
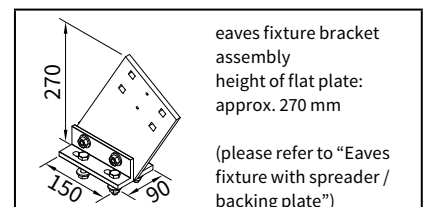
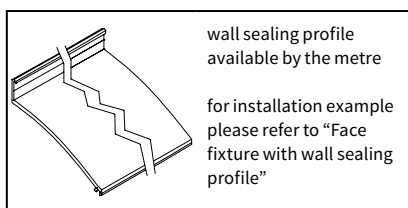
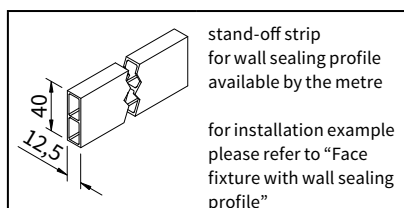
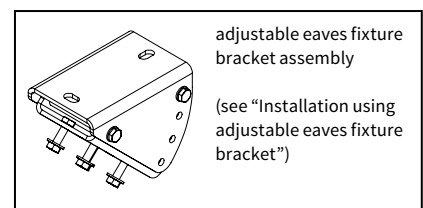
1) please refer to the section "Technical Information"

. = insert RAL colour code no

Stand-off brackets

**77967.****77968.****71844.****71843.**

Accessories

**753891****754921****754911****754901****79380.****75383.****716620****71612.****71659.****77780.****751971****71198.**

1) please refer to the section "Technical Information"

. = insert RAL colour code no

Face fixture

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

Compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

H [cm]

FB [N]

150	471	535	598	662	725	789	852	916	979
200	740	841	942	1042	1143	1243	1344	1444	1545
250	-	1207	1352	1497	1643	1788	1933	2079	2505
300	-	-	1833	2031	2229	2427	2967	3197	3427
350	-	-	-	2650	3287	3589	3891	4193	-

Non compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

FB [N]

150	644	731	818	904	991	1078	1165	1252	1339
200	1012	1149	1287	1424	1561	1699	1836	1974	2111
250	-	1649	1848	2046	2245	2444	2642	2841	3424
300	-	-	2505	2776	3046	3317	4054	4369	4683
350	-	-	-	3622	4492	4905	5318	5731	-

HT BHT	2 100 mm	2 100 mm 1 45 mm
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HT BHT	2 100 mm	2 100 mm 1 45 mm
----------	------------	-------------------------

BM	6	8
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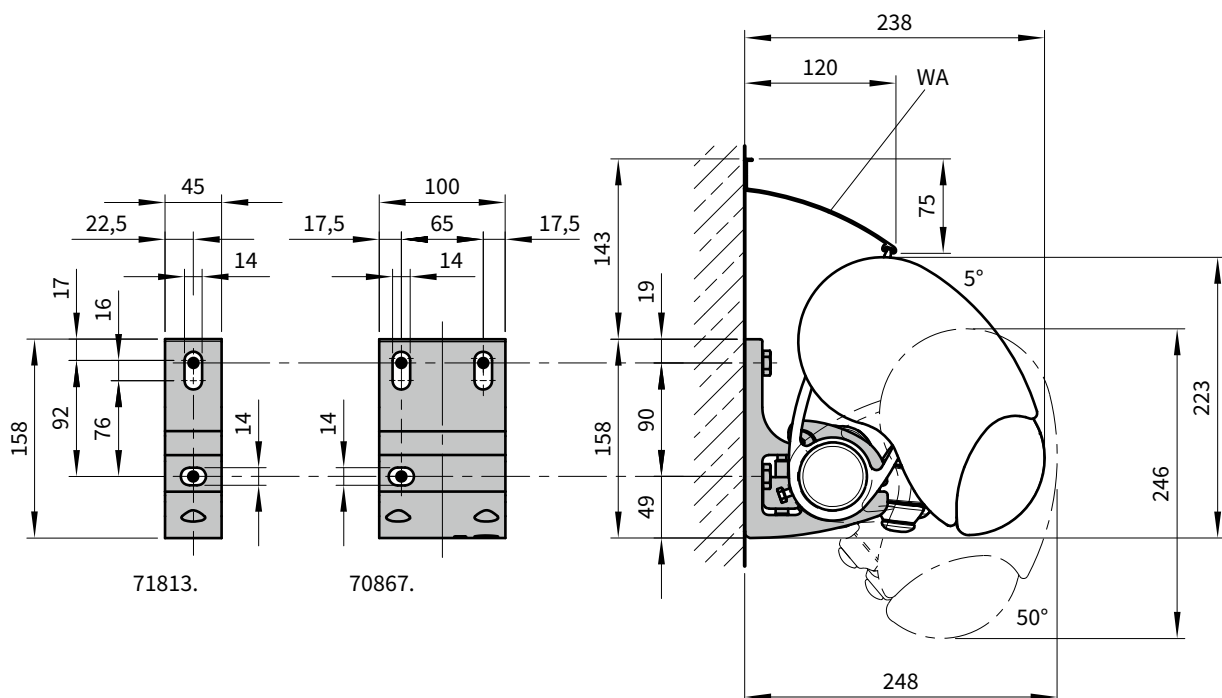
BM	6	8
----	---	---

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **90 mm**. If this measurement is reduced to the minimum, the pull-out force increases by **14%** in the case of **compression-proof substrates** and by **19%** in the case of **non compression-proof substrates**.

If the awning is fixed with 2 brackets per folding arm, the pull-out force can be halved.

Place the brackets immediately to the left and right of the arm bearer.

- M = 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

Face fixture with spreader plate A

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

Compression-proof substrate

H [cm]	M [cm]								
	260	310	360	410	460	510	560	610	660
150	272	308	345	381	418	455	491	528	565
200	426	484	541	599	657	715	772	830	888
250	-	693	776	859	943	1026	1110	1193	1438
300	-	-	1054	1168	1282	1395	1704	1836	1968
350	-	-	-	1518	1883	2056	2229	2402	-

HT BHT	2 100 mm	2 100 mm 1 45 mm
----------	------------	-------------------------

BP	2	2
DP	-	1
BM	16	18

Non compression-proof substrate

M [cm]	FB [N]								
	260	310	360	410	460	510	560	610	660
150	386	438	490	542	594	646	698	750	802
200	605	687	769	851	933	1016	1098	1180	1262
250	-	984	1103	1221	1340	1458	1577	1696	2044
300	-	-	1498	1660	1821	1983	2422	2610	2797
350	-	-	-	2157	2676	2922	3167	3413	-

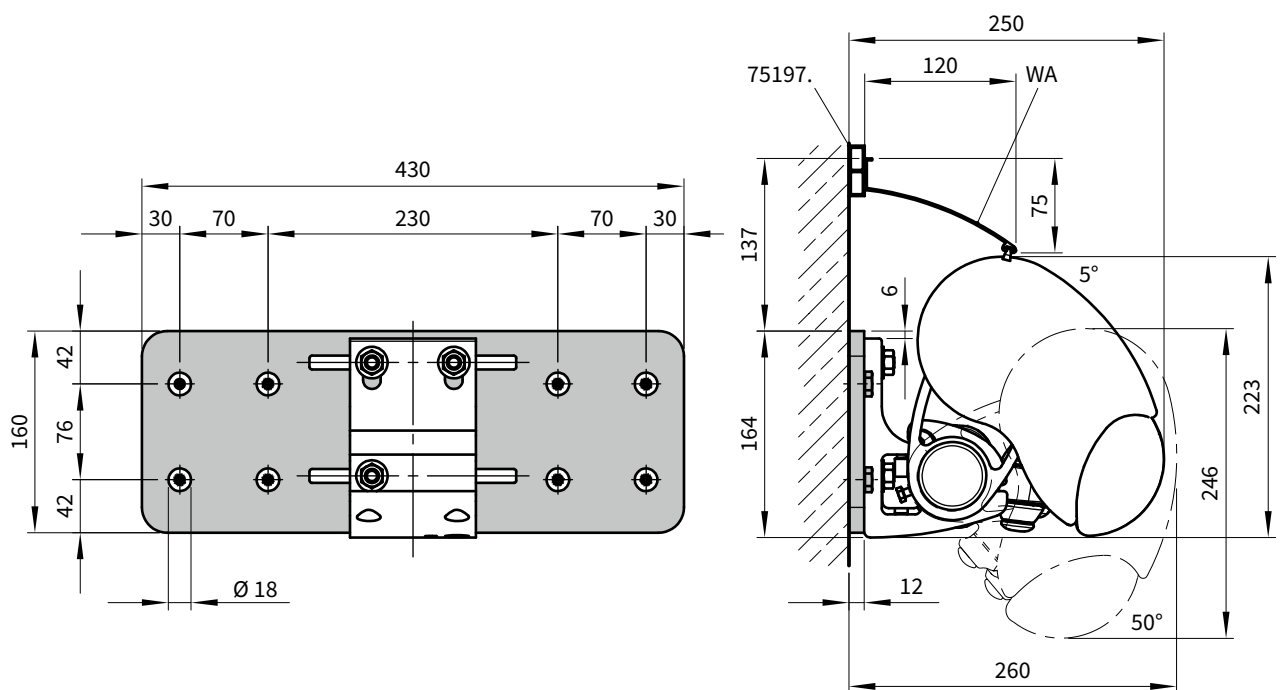
HT BHT	2 100 mm	2 100 mm 1 45 mm
----------	------------	-------------------------

BP	2	2
DP	-	1
BM	16	18

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **76 mm**.

In the case of spreader plates washers conforming to DIN 9021 must be used.

- M = 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

Face fixture with spreader plate B

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

Compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

H [cm]

FB [N]

150	161	182	204	226	247	269	291	312	334
200	252	286	320	355	389	423	457	491	525
250	-	410	459	509	558	607	657	706	851
300	-	-	624	691	758	826	1009	1087	1165
350	-	-	-	898	1114	1217	1319	1412	-

Non compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

FB [N]

150	168	190	213	235	258	281	303	326	348
200	263	298	334	370	405	441	477	512	548
250	-	427	479	530	582	633	685	736	888
300	-	-	651	721	791	861	1052	1133	1215
350	-	-	-	937	1162	1269	1376	1482	-

HT BHT	2 100 mm	2 100 mm 1 45 mm
----------	------------	-------------------------

HT BHT	2 100 mm	2 100 mm 1 45 mm
----------	------------	-------------------------

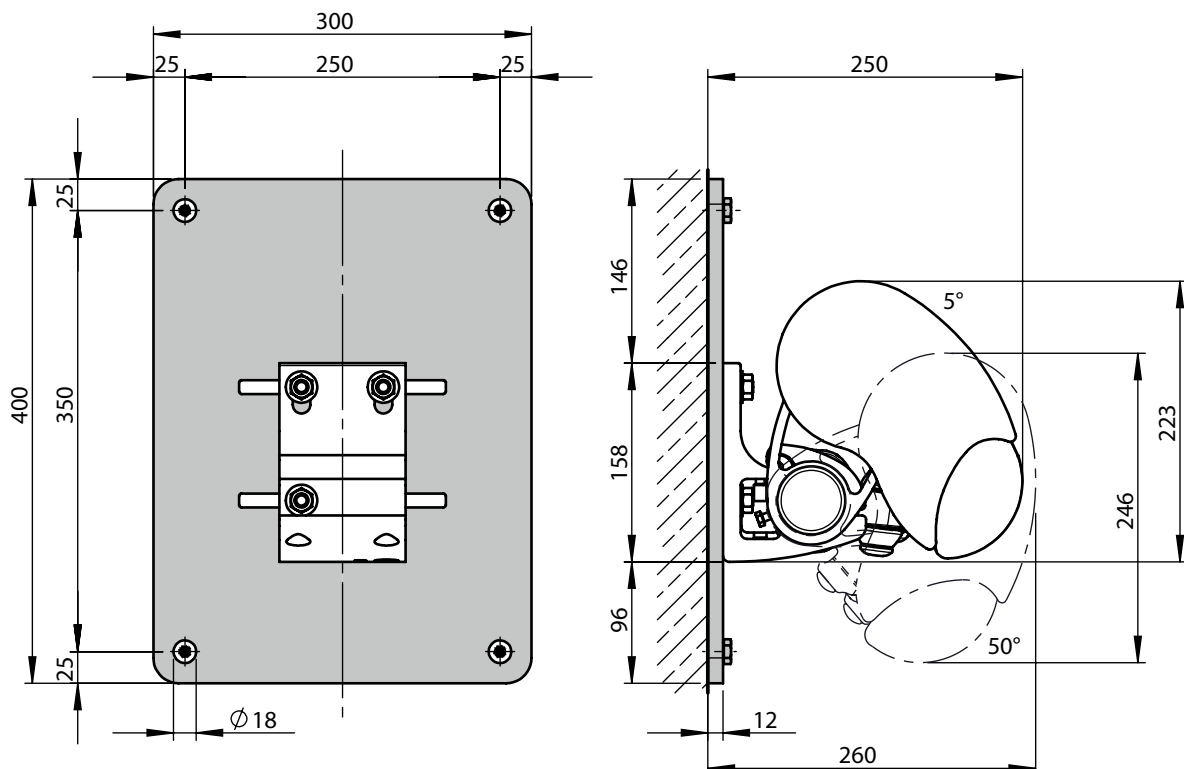
BP	2	2
DP	-	1
BM	8	10

BP	2	2
DP	-	1
BM	8	10

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **350 mm**.

In the case of spreader plates washers conforming to DIN 9021 must be used.

- M = 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

Face fixture with stand-off brackets

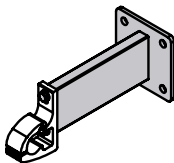
Pull-out force [N=Newton] per upper fixing point according to EN 13561, wind resistance class 2

Compression-proof substrate										Non compression-proof substrate									
M [cm]										M [cm]									
H [cm]										H [cm]									
FB [N]										FB [N]									
260	310	360	410	460	510	560	610	660		260	310	360	410	460	510	560	610	660	
150	565	640	715	789	864	939	1014	1089	1164	635	720	804	888	972	1056	1141	1225	1309	
200	841	954	1067	1180	1293	1405	1518	1631	1744	946	1073	1200	1327	1454	1581	1708	1835	1962	
250	-	1321	1479	1637	1795	1953	2111	2269	2742	-	1487	1664	1842	2020	2198	2375	2553	3085	
300	-	-	1963	2173	2384	2594	3175	3420	3665	-	-	2208	2445	2682	2918	3572	3847	4123	
350	-	-	-	2775	3445	3761	4077	4393	-	-	-	-	3121	3876	4232	4587	4943	-	
HT BHT	2 100 mm				2 100 mm 1 45 mm					2 100 mm				2 100 mm 1 45 mm					
DH 77968.	2				2					2				2					
DH 77967.	-				1					-				1					
BM	8				12					8				12					

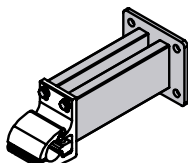
The pull-out force refers to the vertical centre to centre measurement between the fixture points of **120 mm**.

In the case of stand-off brackets washers conforming to DIN 9021 must be used.

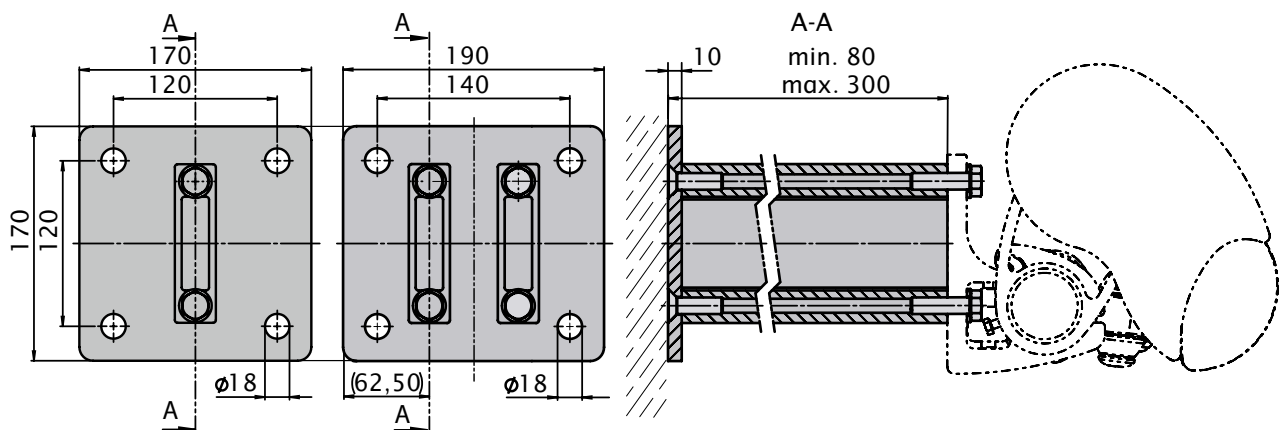
- M = awning width
H = projection
FB = pull-out force per fixing point
HT | BHT = bracket quantity | width
BM = no. of fixing points
DH = no. of stand-off brackets
77967. = stand-off bracket for face fixture bracket assembly 70813.
77968. = stand-off bracket for face fixture bracket assembly 70867.



77967.



77968.



dimensions in mm

Face fixture with shadeplus

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

Compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

H [cm]

FB [N]

150	549	627	706	784	863	941	1020	1098	1177
200	844	965	1085	1206	1326	1446	1567	1687	1808
250	-	1361	1531	1702	1872	2042	2213	2383	2834
300	-	-	2048	2276	2504	2732	3301	3561	3821
350	-	-	-	2936	3608	3945	4282	4619	-

Non compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

FB [N]

150	750	857	965	1072	1179	1287	1394	1501	1608
200	1154	1318	1483	1648	1812	1977	2141	2306	2471
250	-	1860	2093	2326	2558	2791	3024	3257	3874
300	-	-	2799	3111	3422	3734	4512	4867	5223
350	-	-	-	4013	4930	5391	5852	6312	-

HT BHT	2 100 mm	2 100 mm 1 45 mm
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HT BHT	2 100 mm	2 100 mm 1 45 mm
----------	------------	-------------------------

BM	6	8
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BM	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 to the minimum, the pull-out force increases by **14%** in the case of **compression-proof substrates** and by **19%** in the case of **non compression-proof substrates**.

If the awning is fixed with 2 brackets per folding arm, the pull-out force can be halved.

Place the brackets immediately to the left and right of the arm bearer.

M = awning width

H = projection

FB = pull-out force per fixing point

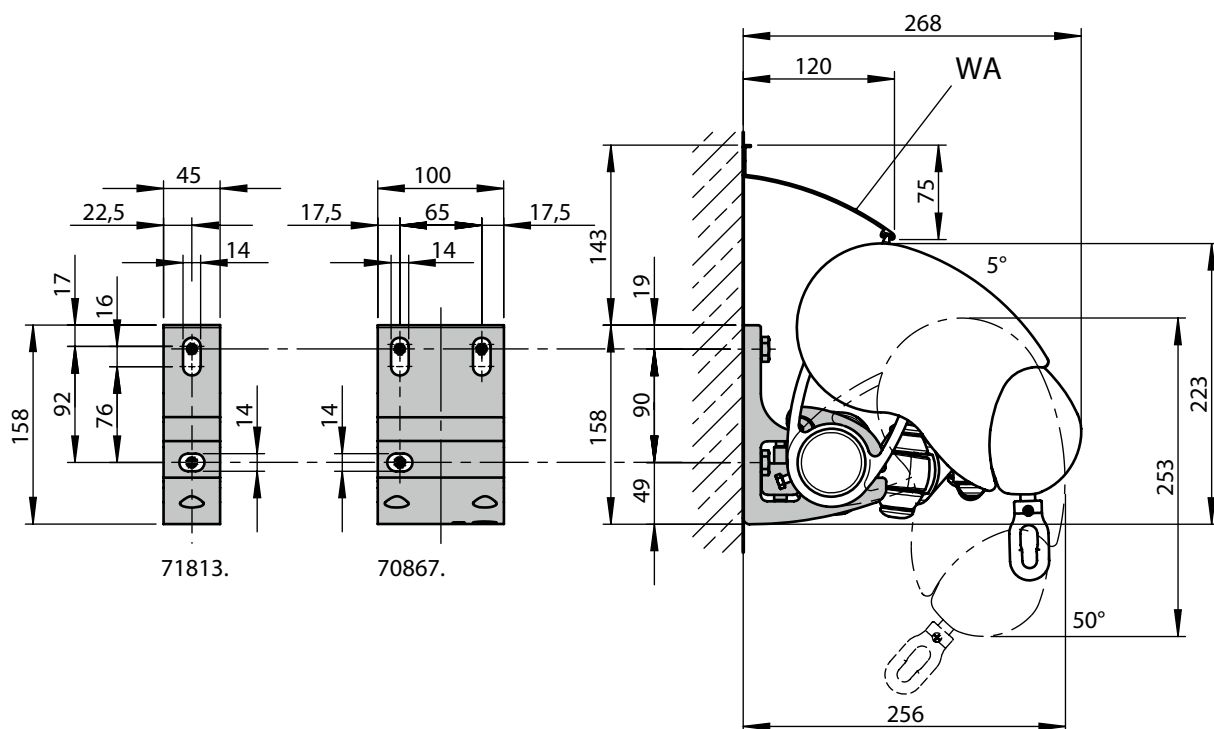
HT | BHT = bracket quantity | width

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

Face fixture with shadeplus and spreader plate A

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

Compression-proof substrate

M [cm]

H [cm]	260	310	360	410	460	510	560	610	660
150	316	362	407	452	497	542	587	633	678
200	485	554	624	693	762	831	900	970	1039
250	-	781	879	976	1074	1172	1269	1367	1626
300	-	-	1178	1308	1439	1570	1896	2045	2194
350	-	-	-	1682	2066	2259	2452	2645	-

Non compression-proof substrate

M [cm]

H [cm]	260	310	360	410	460	510	560	610	660
150	450	514	578	642	706	771	835	899	963
200	690	788	886	984	1083	1181	1279	1378	1476
250	-	1110	1249	1388	1526	1665	1804	1943	2311
300	-	-	1673	1859	2045	2230	2694	2906	3118
350	-	-	-	2390	2936	3211	3485	3759	-

HT BHT	2 100 mm	2 100 mm 1 45 mm
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HT BHT	2 100 mm	2 100 mm 1 45 mm
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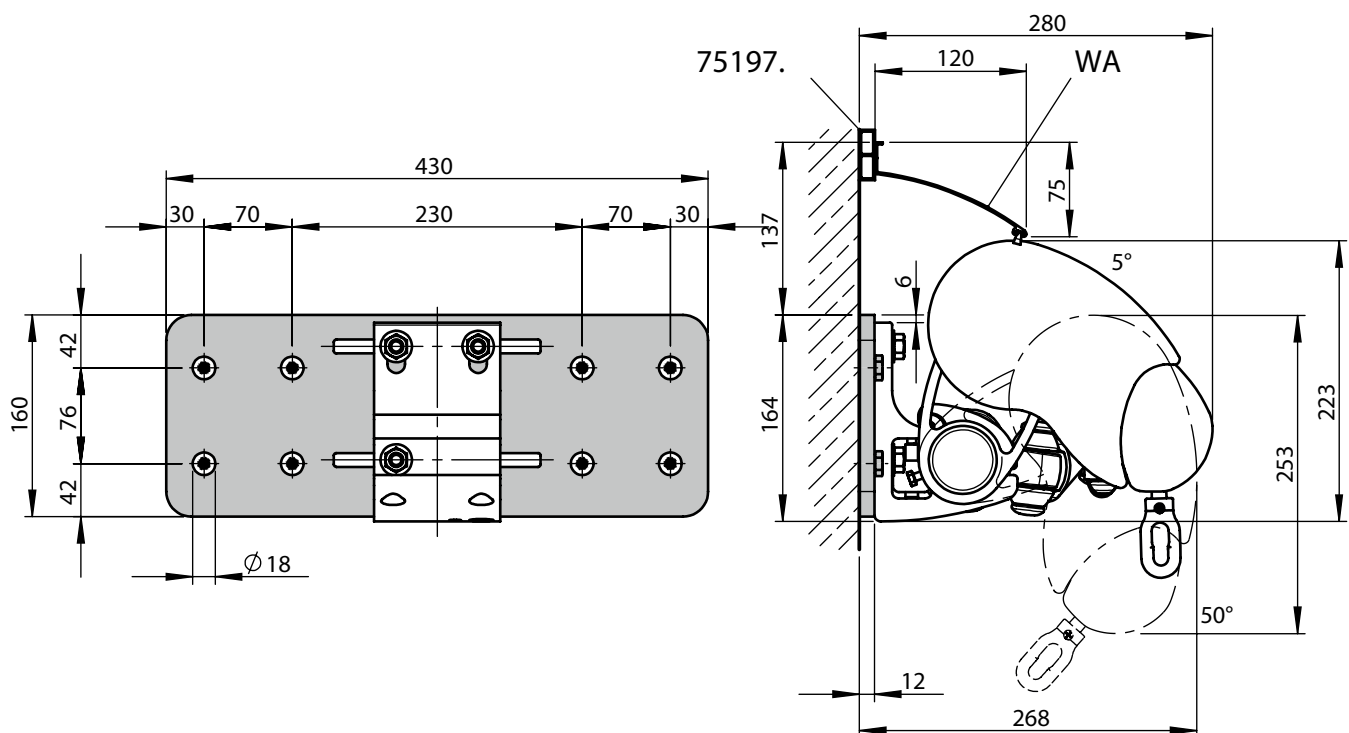
BP	2	2
DP	-	1
BM	8	10

BP	2	2
DP	-	1
BM	8	10

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **76 mm**.

In the case of spreader plates washers conforming to DIN 9021 must be used.

- M = 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

Face fixture with shadeplus and spreader plate B

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

Compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

H [cm]

FB [N]

150	187	214	241	267	294	321	348	374	401
200	287	328	369	410	451	492	533	574	615
250	-	462	520	578	636	693	751	809	962
300	-	-	697	774	852	929	1122	1210	1298
350	-	-	-	995	1223	1337	1451	1565	-

Non compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

FB [N]

150	195	223	251	279	307	335	363	390	418
200	299	342	385	428	470	513	556	598	641
250	-	482	542	603	663	723	783	844	1004
300	-	-	727	807	888	969	1170	1262	1354
350	-	-	-	1038	1275	1394	1513	1633	-

HT BHT	2 100 mm	2 100 mm 1 45 mm
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HT BHT	2 100 mm	2 100 mm 1 45 mm
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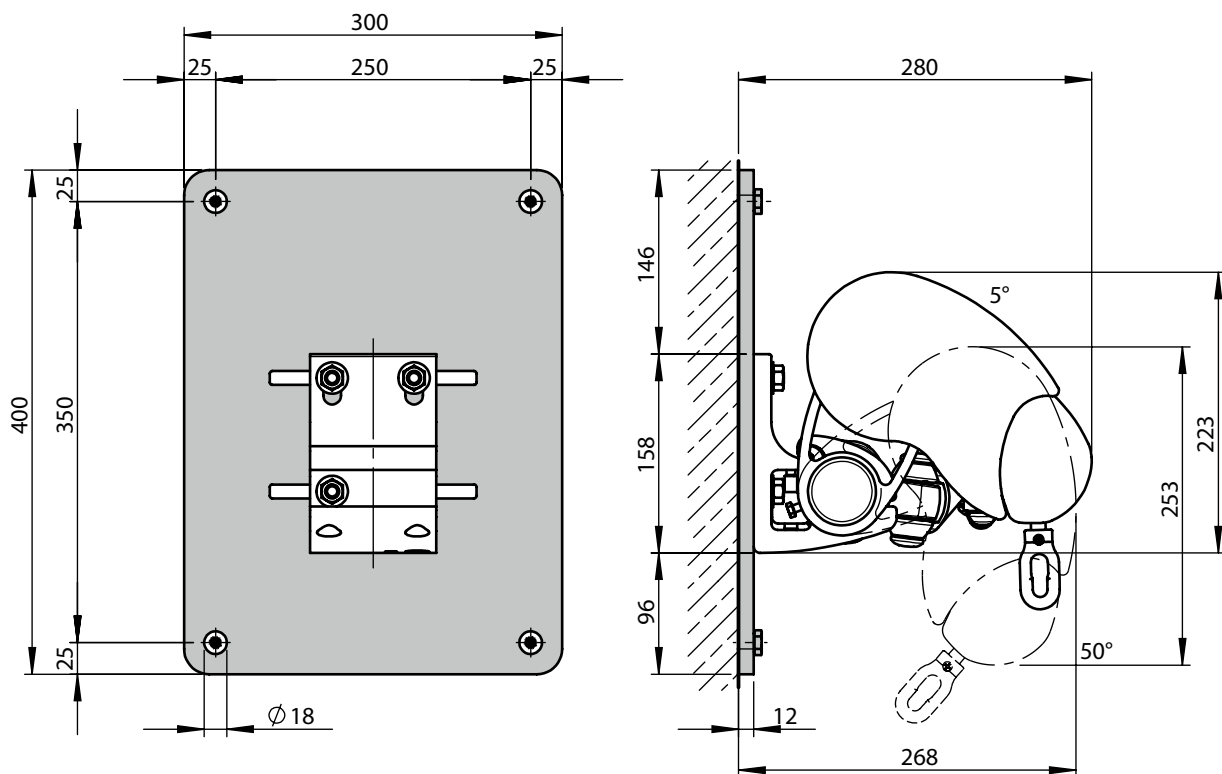
BP	2	2
DP	-	1
BM	8	10

BP	2	2
DP	-	1
BM	8	10

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **350 mm**.

In the case of spreader plates washers conforming to DIN 9021 must be used.

- M = 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

Face fixture for shadeplus / drop valance with stand-off brackets

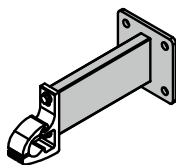
Pull-out force [N=Newton] per upper fixing point according to EN 13561, wind resistance class 2

Compression-proof substrate										Non compression-proof substrate								
M [cm]										M [cm]								
H [cm]										FB [N]								
150	650	741	832	923	1015	1106	1197	1288	1379	731	834	936	1039	1141	1244	1347	1449	1552
200	950	1084	1217	1351	1485	1619	1752	1886	2020	1069	1219	1369	1520	1670	1821	1971	2122	2272
250	–	1479	1663	1846	2029	2213	2396	2580	3078	–	1664	1870	2077	2283	2489	2696	2902	3463
300	–	–	2179	2419	2659	2900	3511	3786	4061	–	–	2451	2721	2992	3262	3949	4259	4568
350	–	–	–	3058	3763	4113	4464	4815	–	–	–	–	3440	4233	4628	5022	5416	–
HT BHT	2 100 mm				2 100 mm					2 100 mm					2 100 mm			
					1 45 mm										1 45 mm			
DH 77968.	2				2					2				2				
DH 77967.	–				1					–				1				
BM	8				12					8				12				

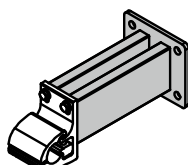
The pull-out force refers to the vertical centre to centre measurement between the fixture points of **120 mm**.

In the case of stand-off brackets washers conforming to DIN 9021 must be used.

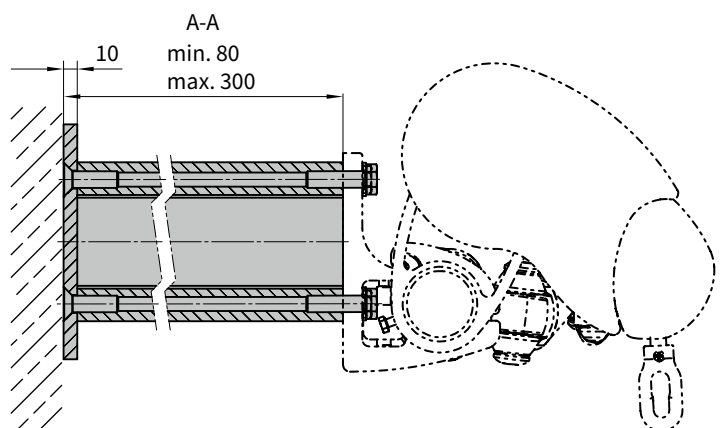
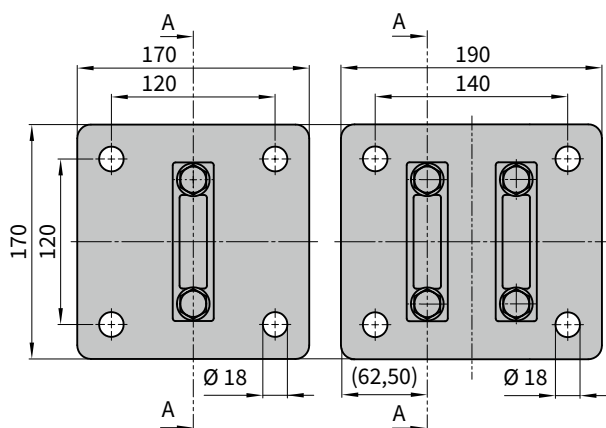
M	= awning width	BM	= no. of fixing points
H	= projection	DH	= no. of stand-off brackets
FB	= pull-out force per fixing point	71813.	= stand-off bracket for face fixture bracket 71813.
HT BHT	= bracket quantity width	70867.	= stand-off bracket for face fixture bracket 70867.



77967.



77968.



dimensions in mm

Top fixture

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

Compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

H [cm]

FB [N]

150	617	704	791	878	965	1052	1138	1225	1312
200	932	1063	1193	1323	1453	1584	1714	1844	1974
250	-	1491	1674	1857	2039	2222	2405	2588	3100
300	-	-	2237	2482	2726	2971	3615	3897	4179
350	-	-	-	3207	3965	4331	4698	5064	-

Non compression-proof substrate

M [cm]

260	310	360	410	460	510	560	610	660
-----	-----	-----	-----	-----	-----	-----	-----	-----

FB [N]

789	900	1010	1120	1230	1340	1451	1561	1671
1203	1371	1538	1705	1872	2039	2206	2373	2540
-	1933	2169	2405	2641	2877	3113	3349	4017
-	-	2908	3225	3542	3859	4701	5067	5433
-	-	-	4177	5168	5645	6122	6599	-

HT BHT	2 90 mm	2 90 mm 1 45 mm
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2 90 mm	2 90 mm 1 45 mm
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BM	8	10
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8	10
---	----

The pull-out force refers to the vertical 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.

Place the brackets immediately to the left and right of the arm bearer.

M = awning width

H = projection

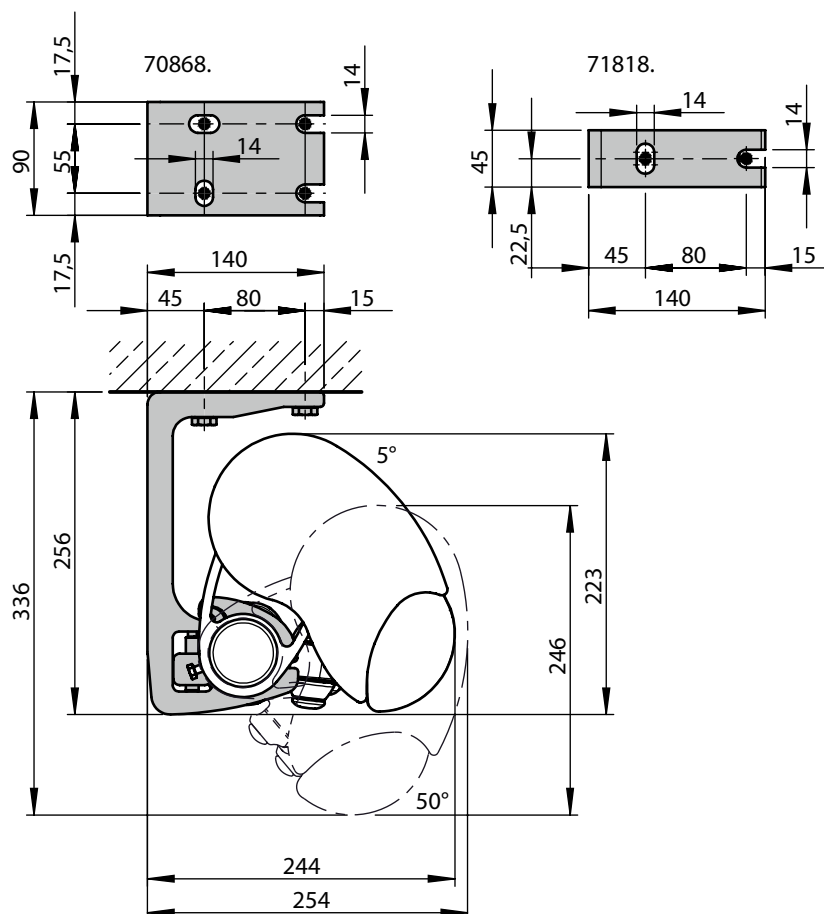
FB = pull-out force per fixing point

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

Top fixture with shadeplus

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

Compression-proof substrate										Non compression-proof substrate									
M [cm]										M [cm]									
H [cm]										H [cm]									
FB [N]										FB [N]									
150	708	812	917	1021	1126	1230	1335	1439	1544	909	1042	1175	1308	1442	1575	1708	1841	1974	
200	1054	1207	1361	1515	1668	1822	1976	2129	2283	1363	1561	1758	1956	2154	2351	2549	2747	2945	
250	-	1672	1884	2096	2308	2520	2732	2944	3485	-	2170	2445	2719	2993	3268	3542	3816	4523	
300	-	-	2497	2776	3056	3335	4015	4332	4649	-	-	3249	3612	3975	4338	5226	5638	6050	
350	-	-	-	3542	4341	4748	5156	5563	-	-	-	-	4617	5662	6192	6723	7254	-	
HT BHT	2 90 mm				2 90 mm 1 45 mm					2 90 mm				2 90 mm 1 45 mm					
BM	8				10					8				10					

The pull-out force refers to the vertical 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.

Place the brackets immediately to the left and right of the arm bearer.

M = awning width

H = projection

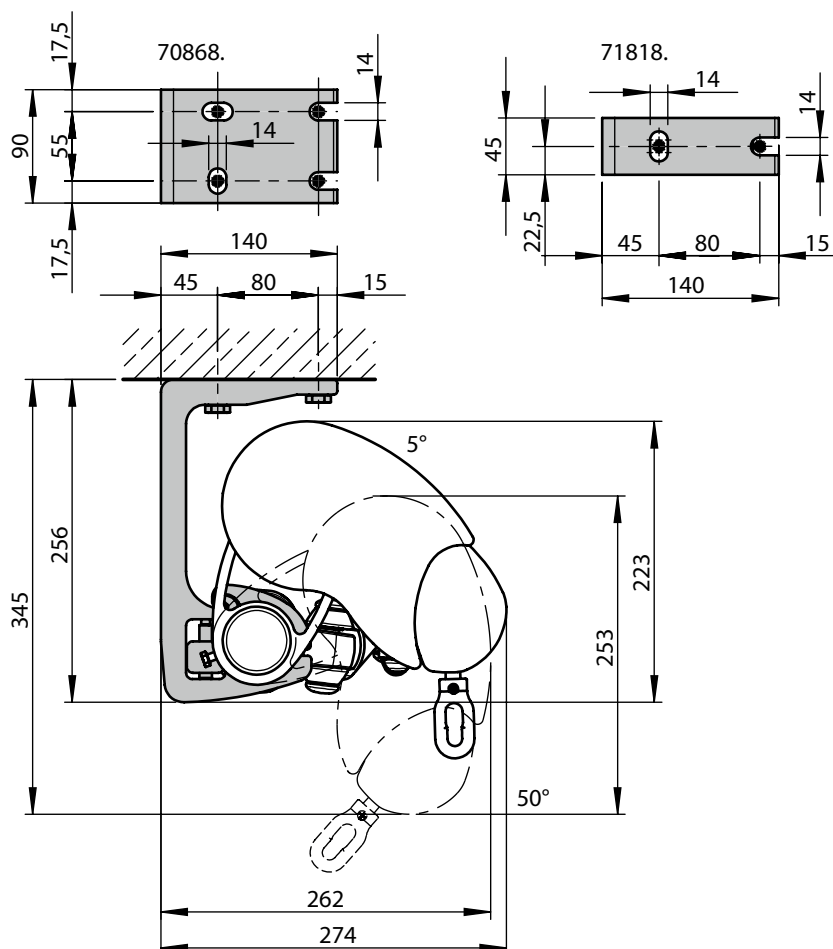
FB = pull-out force per fixing point

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

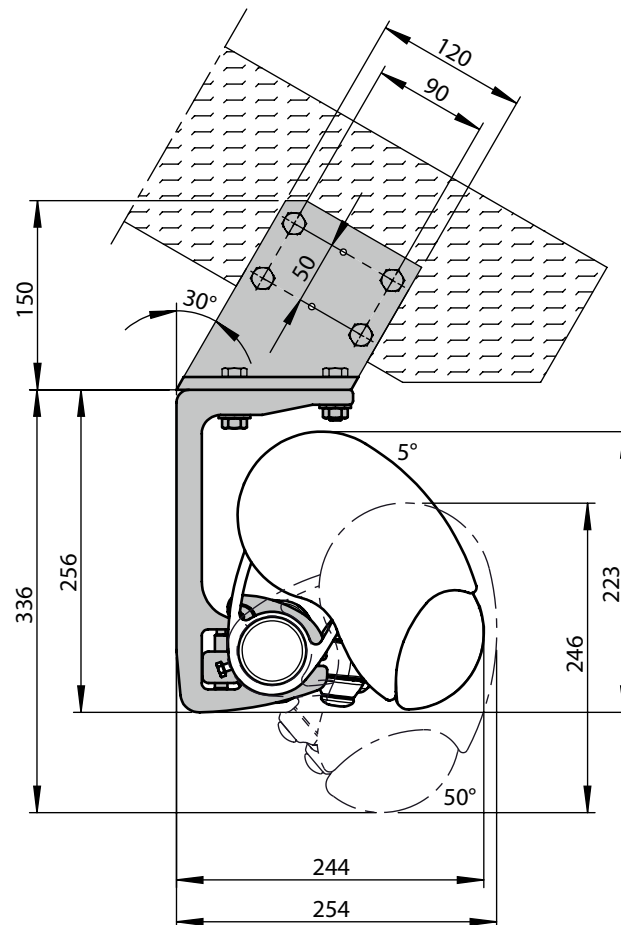
Eaves fixture

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

Torque										Shear force									
M [cm]										M [cm]									
H [cm]	Md [Nm]									FS [N]									
150	116	132	147	163	178	194	210	225	241	1418	1617	1815	2014	2212	2411	2610	2808	3007	
200	182	207	232	256	281	306	331	355	380	2154	2454	2753	3053	3353	3653	3952	4252	4552	
250	–	297	333	368	404	440	476	511	616	–	3453	3875	4298	4720	5142	5565	5987	7178	
300	–	–	451	500	548	597	730	786	843	–	–	5190	5756	6323	6889	8388	9042	9696	
350	–	–	–	652	808	883	957	1031	–	–	–	–	7449	9213	10064	10915	11766	–	
HT	2					3				2					3				
BM	8					12				8					12				

By using the additional flat fixture plate, the shear force is reduced in comparison with conventional eaves fixture.

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



dimensions in mm

Eaves fixture with additional spreader / backing plate

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

		Torque M [cm]									Shear force M [cm]								
		260	310	360	410	460	510	560	610	660	260	310	360	410	460	510	560	610	660
H [cm]	Md [Nm]										FS [N]								
150		116	132	147	163	178	194	210	225	241	710	813	916	1019	1122	1225	1328	1432	1535
200		182	207	232	256	281	306	331	355	380	1041	1189	1338	1487	1635	1784	1933	2081	2230
250		-	297	333	368	404	440	476	511	616	-	1639	1843	2047	2251	2454	2658	2862	3412
300		-	-	451	500	548	597	730	786	843	-	-	2435	2703	2972	3240	3929	4237	4545
350		-	-	-	652	808	883	957	1031	-	-	-	-	3465	4272	4669	5066	5462	-
HT		2				3					2				3				
BM		4				6					4				6				

By using the additional flat fixture plate, the shear force is reduced in comparison with conventional eaves fixture.

M = awning width

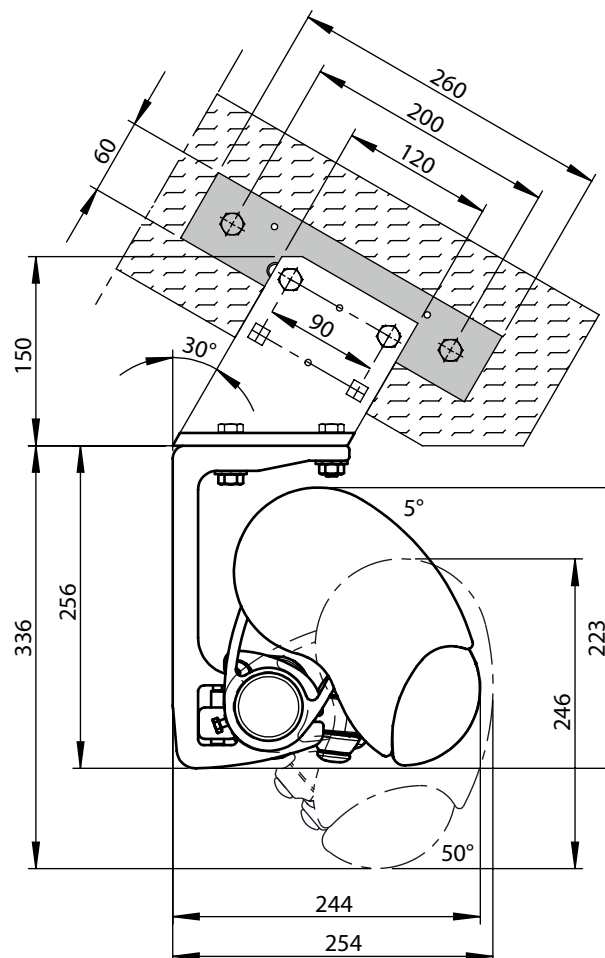
H = projection

Md = torque value for the bracket in the immediate vicinity of the arm

HT = no. of brackets

FS = shear force

BM = no. of fixing points



dimensions in mm

Installation using the adjustable eaves fixture bracket

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

Compression-proof substrate

M [cm]

H [cm]	260	310	360	410	460	510	560	610	660
150	929	1062	1195	1328	1460	1593	1726	1859	1992
200	1386	1582	1777	1973	2168	2364	2559	2755	2951
250	-	2202	2474	2745	3017	3289	3560	3832	4580
300	-	-	3290	3651	4012	4373	5313	5728	6143
350	-	-	-	4701	5806	6343	6881	7419	-

Non compression-proof substrate

M [cm]

H [cm]	260	310	360	410	460	510	560	610	660
150	958	1095	1231	1368	1504	1641	1778	1914	2051
200	1431	1633	1834	2036	2238	2439	2641	2842	3044
250	-	2275	2556	2836	3117	3397	3677	3958	4732
300	-	-	3401	3774	4147	4520	5493	5922	6351
350	-	-	-	4862	6005	6561	7117	7673	-

HT BHT	2 90 mm	2 90 mm 1 45 mm
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HT BHT	2 90 mm	2 90 mm 1 45 mm
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BM	8	10
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BM	8	10
----	---	----

The pull-out force refers to the measurement from the front to the rear fixture points of **140 mm**.

Washers conforming to DIN 9021 must be used.

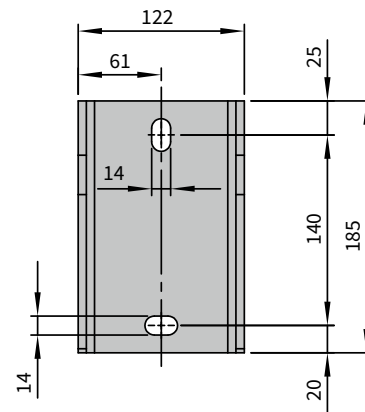
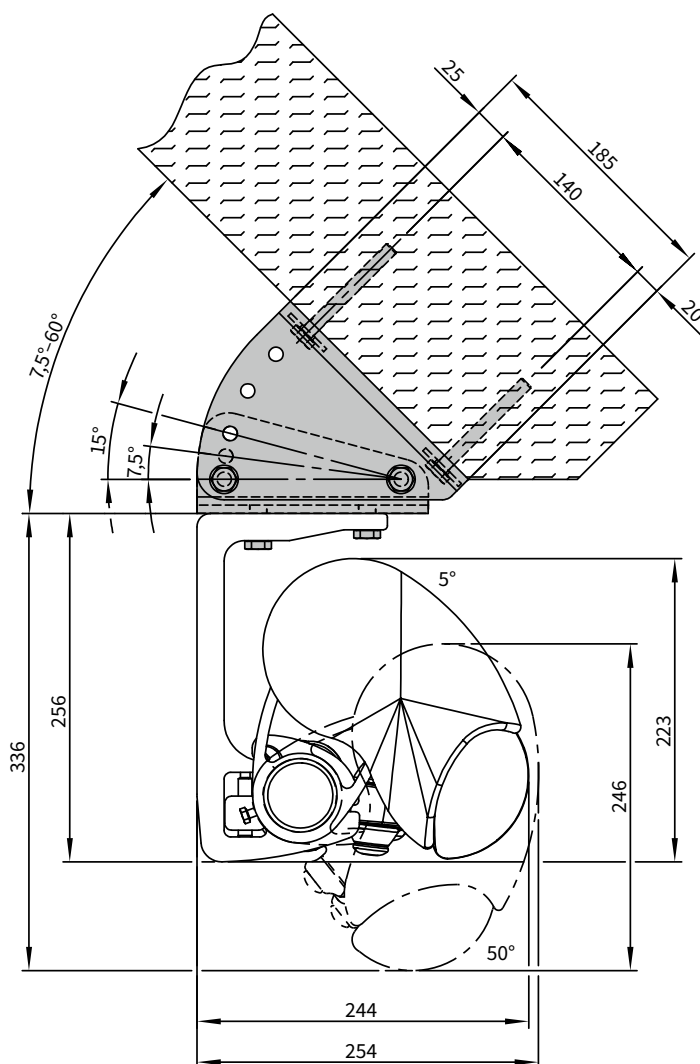
M = awning width

H = projection

FB = pull-out force per fixing point

HT | BHT = bracket quantity | width

BM = no. of fixing points



dimensions in mm

Installation with shadeplus / drop valance using the adjustable eaves fixture bracket

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

Compression-proof substrate										Non compression-proof substrate									
M [cm]										M [cm]									
H [cm]										H [cm]									
FB [N]										FB [N]									
150	1061	1219	1378	1536	1694	1852	2010	2168	2327	1095	1257	1420	1583	1746	1909	2072	2235	2398	
200	1562	1792	2021	2250	2480	2709	2938	3168	3397	1613	1850	2087	2323	2560	2797	3033	3270	3507	
250	–	2464	2778	3092	3406	3720	4034	4348	5139	–	2547	2871	3195	3519	3844	4168	4492	5310	
300	–	–	3666	4077	4489	4901	5892	6358	6824	–	–	3790	4216	4641	5067	6092	6574	7056	
350	–	–	–	5187	6350	6947	7544	8141	–	–	–	–	5365	6569	7186	7804	8421	–	

HT BHT	2 90 mm					2 90 mm 1 45 mm			
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HT BHT		2 90 mm					2 90 mm 1 45 mm			
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BM	8					10			
----	---	--	--	--	--	----	--	--	--

BM		8					10			
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The pull-out force refers to the measurement from the front to the rear fixture points of **140 mm**.

Washers conforming to DIN 9021 must be used.

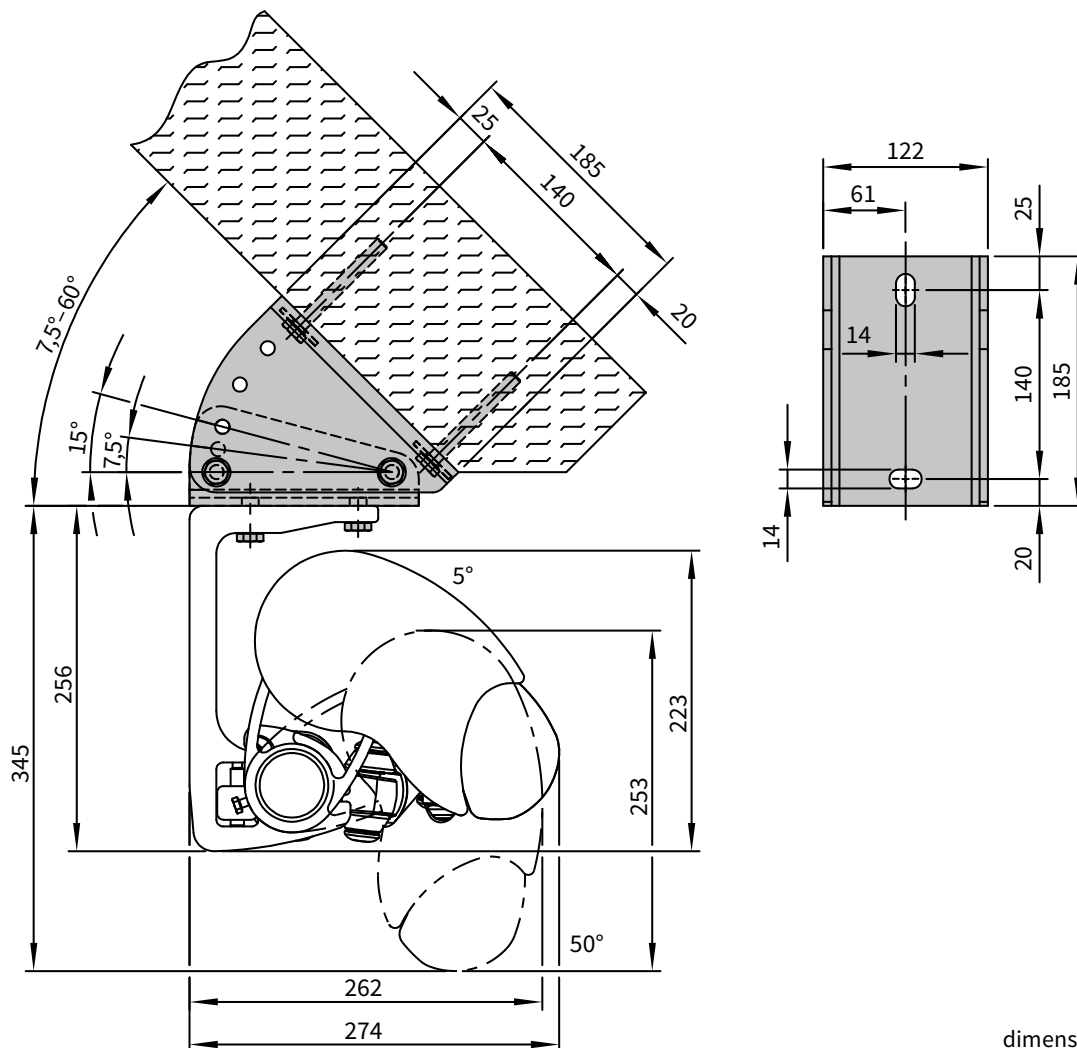
M = awning width

H = projection

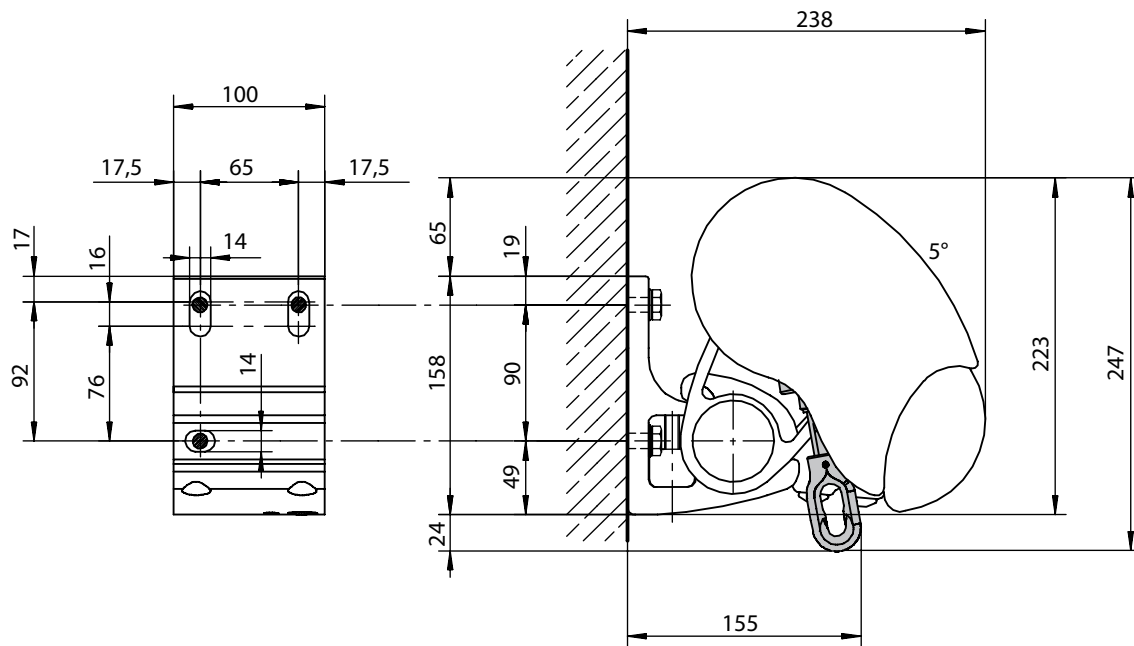
FB = pull-out force per fixing point

HT | BHT = bracket quantity | width

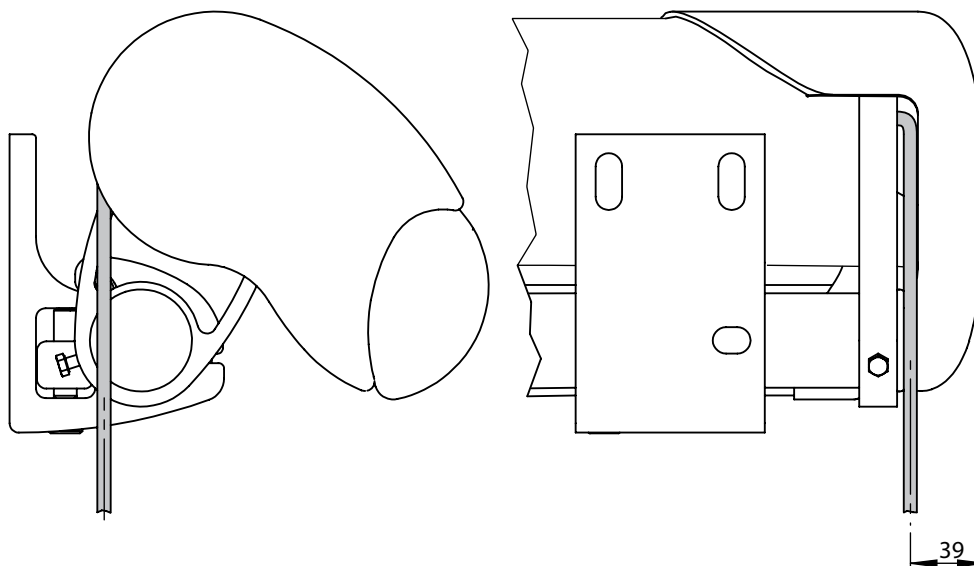
BM = no. of fixing points



dimensions in mm

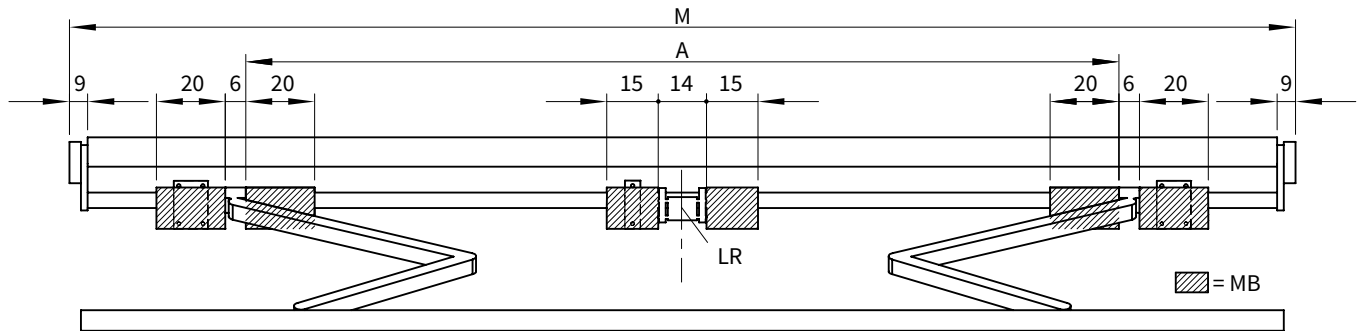
Face fixture with manual operation

dimensions in mm

Cable exit point in motor-driven units

dimensions in mm

Bracket fixture range for awnings with 2 folding arms



M [cm]	SB →	260	310	360	410	460	510	560	610	660
	ZB →	193–260	261–310	311–360	361–410	411–460	461–510	511–560	561–610	611–660

H [cm] ↓	A [cm]								
150	160*	220	250	280	320	390	425	460	500
200	210**	220*	250	280	320	390	425	460	500
250	–	260**	270*	280	320	390	425	460	500
300	–	–	310**	320*	320	390	425	460	500
350	–	–	–	360**	375*	390	425	460	–

dimensions in cm

W	BHT ↓	HT ↓	
	45 mm	–	1
	100 mm	2	2

DE	45 mm	–	1
	90 mm	2	2

DA	90 mm	2	3
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If the brackets cannot be positioned in accordance with this table, make sure the actual measurements are noted on the order form!

- * = Coupled units are only available with a junction roller in the standard widths, in the case of other widths please ask us
- ** = Please note the minimum widths! In the case of small awnings the brackets can only be fitted inside the arms, i.e. the position denoted by measurement **A**.

A = arm position

BHT = bracket width

DA = eaves fixture

DE = top fixture

GS = cassette support bracket

H = projection

HT = no. of brackets

LR = a rolltex bearing with accompanying bracket is always placed under a central seam (depends on the awning size)

M = awning width

MB = bracket fixture range

SB = standard width

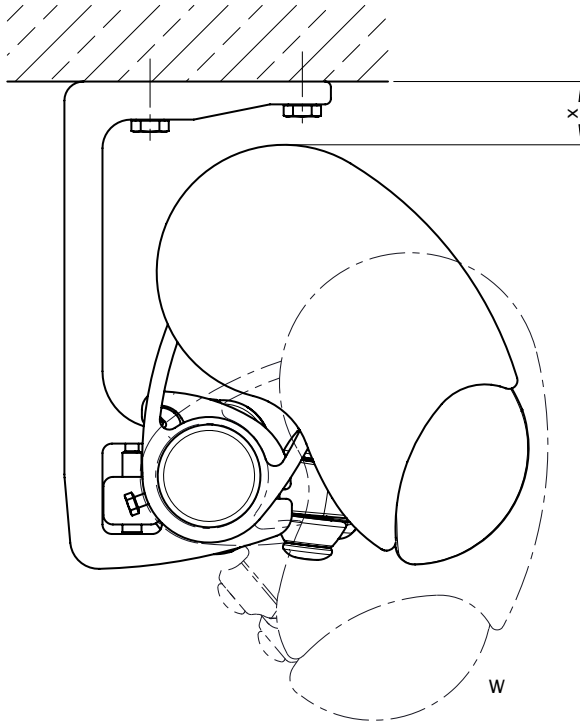
W = face fixture

ZB = intermediate width

dimensions in mm

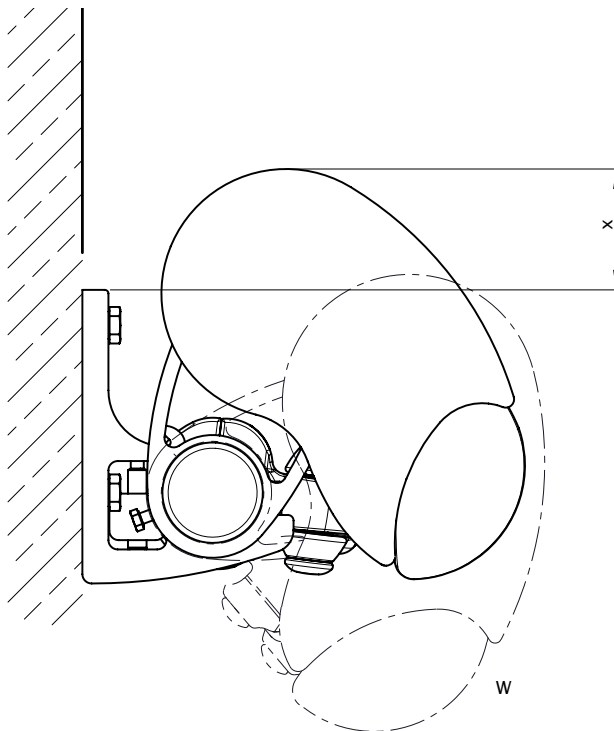
Installation dimensions at varying awning pitches

Top fixture



pitch (W)	approx. height in mm (X)
5°	33
10°	38
15°	43
20°	50
25°	57
30°	64
35°	72
40°	81
45°	90
50°	99

Face fixture



pitch (W)	approx. height in mm (X)
5°	65
10°	65
15°	60
20°	55
25°	49
30°	42
35°	34
40°	26
45°	17
50°	8