markilux 6000

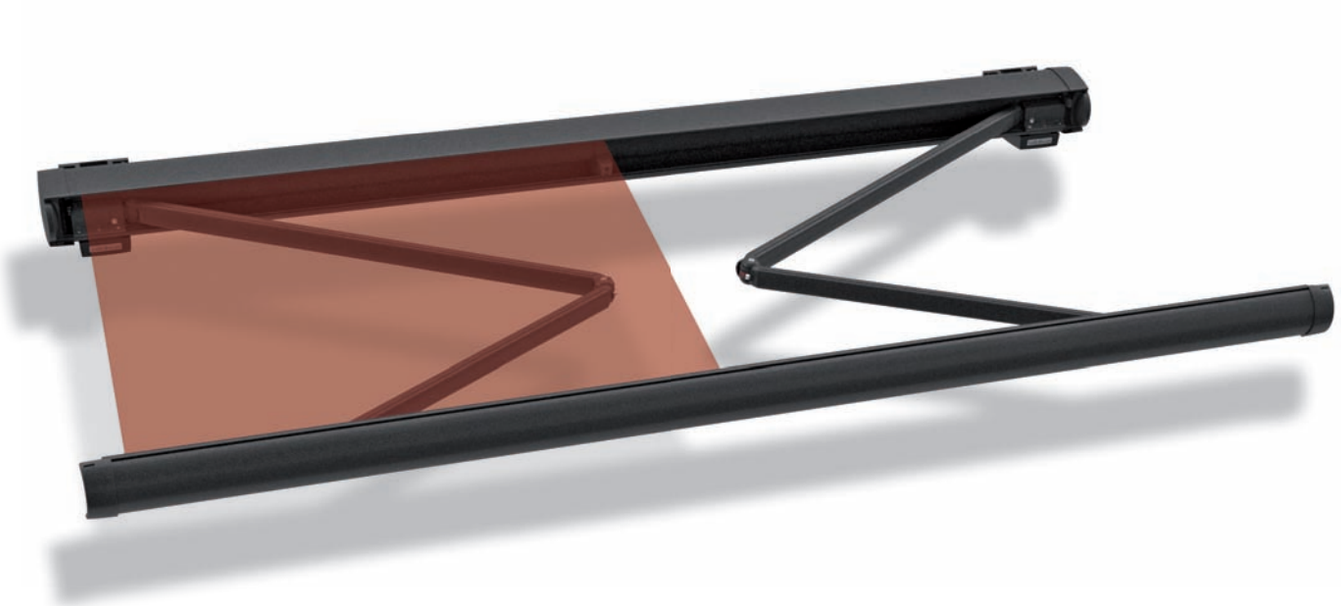
The markilux in the three style lines Club, Studio, Lounge and with new arm technology

CE MAXIMUM SAFETY markilux

DESIGNPREIS 2007 NOMINEE

reddot design award winner 2006

markilux



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Design features

- a high-class full cassette awning in an appealing design in 3 style lines. presented with the Red Dot Design Award 2006
- the possibility of mixing and matching the colour of the cassette with that of the end cap trim and the end cap insert make the markilux 6000 a personally individual awning
- for long-lasting beauty the cassette and frame are powder coated
- the cover profile is in the same colour as the cassette; this provides for a closed appearance even when the awning is extended
- elegant bracket cowling; design down to the last detail

Technical highlights

- when closed the folding arms are protected from the weather by the cassette
- unique arm technology with power transference using bionic tendon made of high-tech fibres with extremely high tensile strength. tested by The Fraunhofer Institute
- front profile with integrated gutter and hidden water drainage spouts
- the spring tensioners - which have been matched to the arm length - provide ideal cover tension
- simple pitch adjustment via the bracket without the need to readjust the front profile

Additional features

- 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
- the lighting tastefully integrated into the front profile provides for a wonderful atmosphere on the patio
- in the case of manual operation ease of use is ensured with the spring-assisted gearbox

side view with awning retracted, face fixture

side view with awning retracted, top fixture

wall sealing profile (optional)

markilux spotlights in the front profile (optional)

shadeplus / drop valance (optional) retracted

Shadeplus / drop valance integrated into the front profile (optional)

gutter with hidden water spout

bionic tendon and cable conduit hidden in the arms

Standard specification

- bionic tendon
- manual operation with stainless steel winding handle
- bonded awning cover
- sunsilk snc fabric
- sunsilk snc signature fabric
- acrylic fabric 34

Standard frame colours

- traffic white - RAL 9016
- metallic aluminium - RAL 9006
- grey brown - similar to RAL 8019
- off-white textured finish - 5233
- stone grey metallic - 5215
- anthracite metallic - 5204

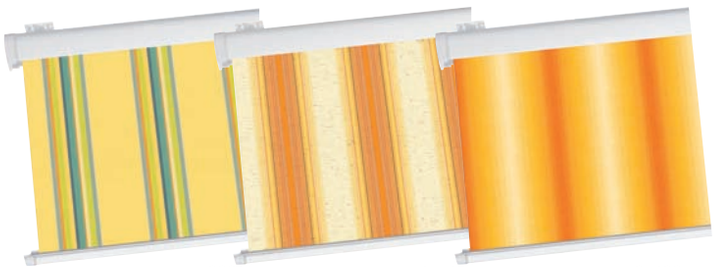
Optional accessories

- hard-wired or radio-controlled motor with remote control
- Shadeplus / drop valance
- lighting
- light and wind sensor
- valance
- infra-red heater
- Vibrabox / Sunis light sensor
- special powder-coated finish

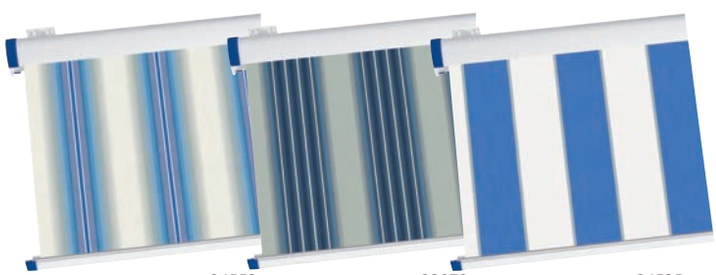
www.markilux.com

Club style line

All cover fabrics shown here come highly recommended in combination with the markilux 6000 Club. But you are - of course - also free to choose from the complete range of fabrics we offer. (The Club style line is standard and does not incur a surcharge)



32861 34439 34632



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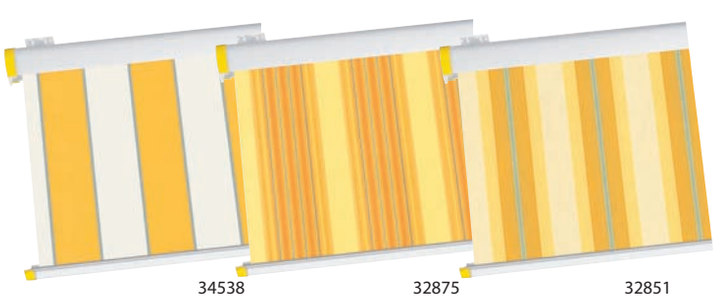

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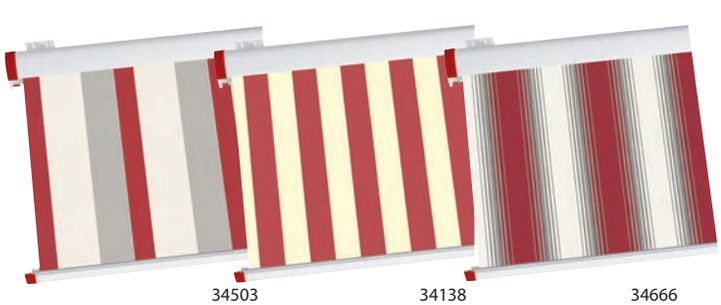


34503 34138 34666

Frame colours

traffic white - RAL 9016	

End cap trim colours

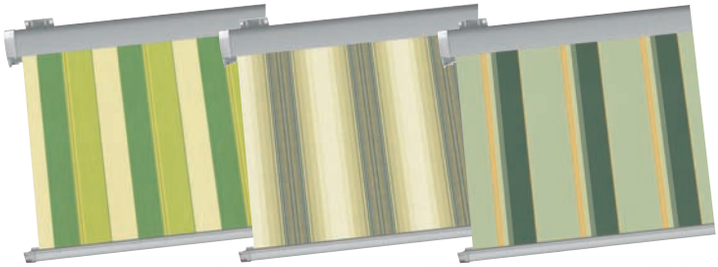
traffic white - RAL 9016	
signal blue - RAL 5005	
signal yellow - RAL 1003	
ruby red - RAL 3003	

End cap insert colours

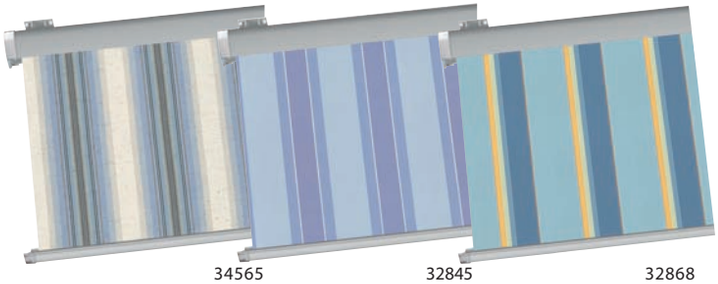
traffic white - RAL 9016	

Studio style line

All cover fabrics shown here come highly recommended in combination with the markilux 6000 Studio. But you are - of course - also free to choose from the complete range of fabrics we offer. (The Studio style line is standard and does not incur a surcharge)



34611 34566 32865



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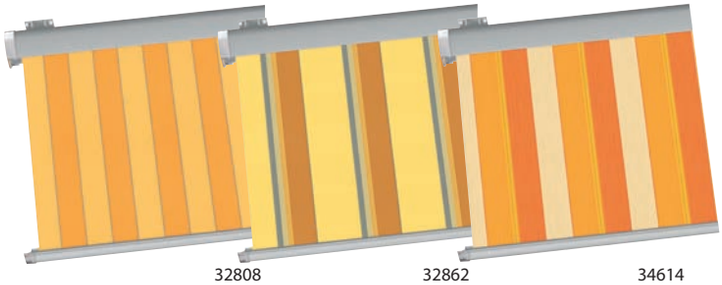

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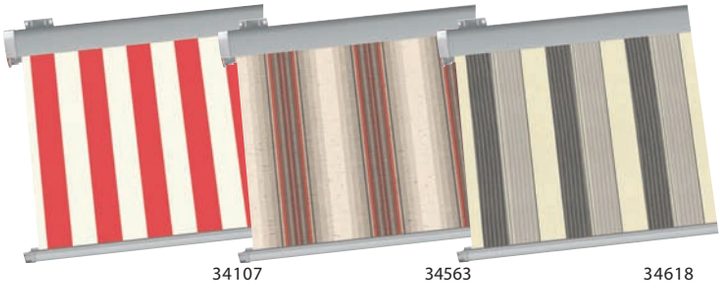


34107 34563 34618

Frame colours

metallic aluminium - RAL 9006

End cap trim colours

polished chrome

End cap insert colours

light green
light blue
orange
red

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 cap trim colours

off-white textured finish - 5233	
stone grey metallic - 5215	
anthracite metallic - 5204	
polished chrome	
black chrome	

End cap insert colours

off-white textured finish - 5233	
stone grey metallic - 5215	
anthracite metallic - 5204	
wood effect	
stainless steel mesh	

Dimensions and configuration options

projection	awning width										minimum widths motor operation [1]			manual operation [1]	
	250	300	350	400	450	500	550	600	650	700[4]	2 folding arms		3 folding arms	2 folding arms	
	208-250	251-300	301-350	351-400	401-450	451-500	501-550	551-600	601-650	651-700	standard arms	bespoke arms	standard arms	standard arms	bespoke arms
150	5)										221	208	650	221	208
200		5)									271	258	650	271	258
250			5)								321	308	650	321	308
300				5)							371	358	650	371	358
350					5)				4)		421	408	650	421	408
400[2) 3)]						5)					471	458	700	471	458

dimensions in cm

1) The dimensions are only valid for fixture without spreader plates (2 folding arms).
2) A shadeplus / drop valance is not available.
3) Awnings with 4 m extension are only available with motor (surcharge).
4) Awnings with 3 arms are only available with motor (surcharge).
5) Please note the minimum widths!

Due to the compact awning construction and depending on the width and the projection, contact between cover and folding arms may occur during extension and retraction. This does not have a detrimental effect on the functionality and/or durability of the awning.

= available, 2 folding arms
= available, 2 folding arms, 1 rolltex bearing
= available, 3 folding arms, 2 rolltex bearings

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	○[1]
PVC fabric	○[1]
Miscellaneous	
coverboard	–
system coverboard	–
wall sealing profile	○[2]
pitch adjustment gear	–
insertable side blind	○
light and wind sensor	○
valance	○
infra-red heater	○
Vibrabox / Sunis light sensor	○
Coupled units	
coupled unit, 2 fields	○[3]
coupled unit, 3 fields	–
junction roller	○[4]
one-piece cover (on request)	○[5]

● = standard specification
○ = optional accessories
– = not available
○* = radio-controlled motor using 433 MHz technology
○[1] = up to a maximum projection of 250 cm, up to a maximum width of 600 cm
○[2] = wall sealing profile up to a maximum awning pitch of 35°
○[3] = for minimum widths please consult the "Technical Information" section
○[4] = please see bracket fixture range
○[5] = up to a max. awning pitch of 15°, up to a max. projection of 350 cm

Housing tolerances / Awning cover dimensions	Width	Projection
housing tolerance	+5 / -5	±40
awning cover width = width less	210	
awning cover length = awning projection plus		100

dimensions in mm

The width of the awning cover is always **less** than the width of the awning. Coupled units on request.

Awning pitch range: from 5° to 35° or 36° to 70° (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**.

A **motor-driven awning** extends at approximately **12 seconds per metre**.

Definition 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 a PVC cover.

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 arm separation table).

If coupled blinds 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. Make a special note if an awning is to be fitted into a recess or reveal and note the recess/reveal dimensions separately on the order.

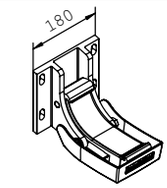
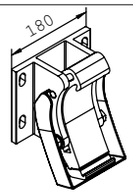
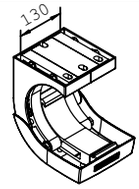
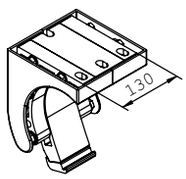
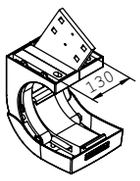
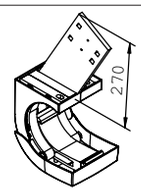
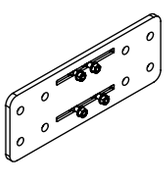
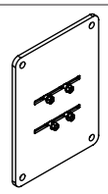
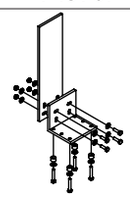
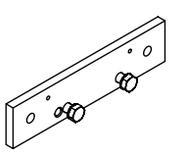
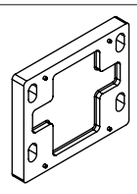
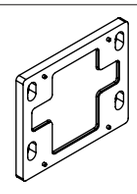
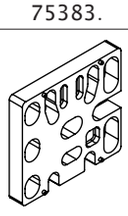
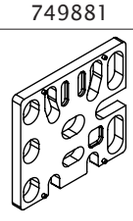
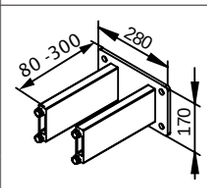
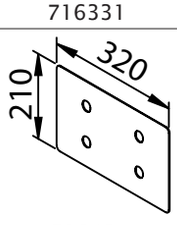
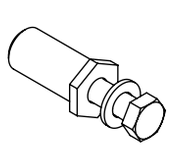
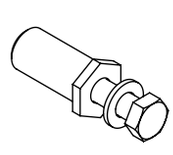
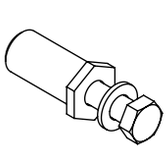
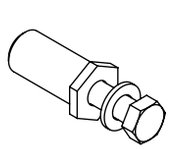
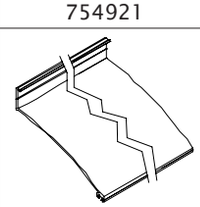
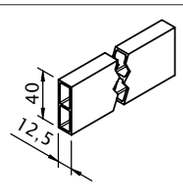
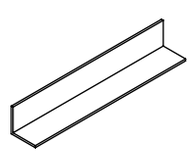
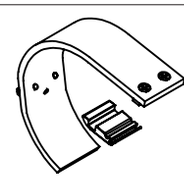
A radio-controlled motor in io technology is available, but io control is not available for the shadeplus / drop valance.

Radio controls are available in io technology - see the section "Optional Accessories".

Frame colours		
traffic white - RAL 9016		●
metallic aluminium - RAL 9006		●
grey brown - similar to RAL 8019		●
off-white textured finish - 5233 (Lounge)		●
nano stone grey metallic - 5215 (Lounge)		●
anthracite metallic - 5204 (Lounge)		●
non-standard RAL colour		○

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

Fixtures, fittings and accessories

 74909. Face fixture bracket assembly 180 mm 5° - 35°	 74928. Face fixture bracket assembly 180 mm 36° - 70°	 74903. Top fixture bracket assembly 130 mm 5° - 35°
 74905. Top fixture bracket assembly 130 mm 36° - 70°	 74944. Eaves fixture bracket assembly 5° - 35°	 74970. Eaves fixture bracket assembly 270 mm 5° - 35°
 75328. Spreader plate A (including bracket bolts) 160 x 430 x 12 mm	 75327. Spreader plate B (including bracket bolts) 300 x 400 x 12 mm	 741290 Flat plate and angled bracket for eaves fixture machine finish
 75383. Additional eaves fixture plate assembly 60 x 260 x 12 mm	 749881 Spacer plate for face fixture 150 x 180 x 20 mm N.B.! stack to a max. of 200 mm (please refer to the section "Technical Information")	 74989. Spacer plate for face fixture 150 x 180 x 12 mm (please refer to the section "Technical Information")
 716331 Spacer plate for top fixture 136 x 150 x 20 mm N.B.! stack to a max. of 200 mm (please refer to the section "Technical Information")	 71644. Spacer plate for top fixture 136 x 150 x 12 mm (please refer to the section "Technical Information")	 77970. Spacer bracket for face fixture bracket 74909. and 74928. (please refer to the section "Technical Information")
 71842. Cover plate for installation with spacer plates and spacer brackets in the case of external insulation 210 x 320 x 2 mm (please refer to the section "Technical Information")	 753891 Reducing bolt assembly M 16 - M 12 / SW 27 50 mm length (please refer to the section "Technical Information")	 754921 Reducing bolt assembly M 16 - M 10 / SW 27 50 mm length (please refer to the section "Technical Information")
 754911 Reducing bolt assembly M 12 - M 10 / SW 27 50 mm length (please refer to the section "Technical Information")	 754901 Reducing bolt 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	 701809 Angled profile Eaves fixture bracket 160 x 160 x 12 mm available by the metre, undrilled	 79504. Storm safety clip assembly N.B.! to be recommended in windy locations

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

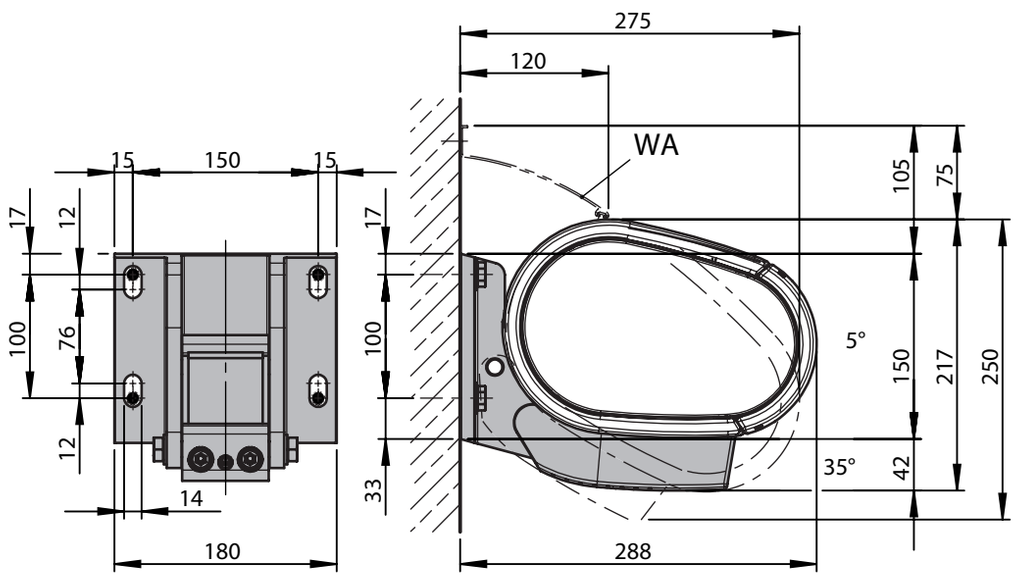
Face fixture

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

	compression-proof substrate										non compression-proof substrate									
	M [cm]										M [cm]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	462	531	601	671	740	810	879	949	1018	887	568	654	739	825	910	996	1081	1167	1253	1091
200	---	857	965	1074	1183	1291	1400	1508	1617	1462	---	1054	1187	1321	1454	1588	1722	1855	1989	1798
250	---	---	1385	1541	1696	1852	2007	2162	2597	2402	---	---	1704	1895	2086	2277	2469	2660	3194	2955
300	---	---	---	2056	2266	2476	3025	3267	3509	3286	---	---	---	2529	2787	3046	3720	4018	4316	4041
350	---	---	---	---	3022	3711	4028	4344	4167	4463	---	---	---	---	3717	4565	4954	5343	5125	5490
400	---	---	---	---	---	4649	5049	5449	---	5537	---	---	---	---	---	5719	6211	6703	---	6810
HT|BHT	2 | 180 mm				3 | 180 mm				4 | 180 mm		2 | 180 mm				3 | 180 mm				4 | 180 mm	
BM	8				12				16		8				12				16	

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **100 mm.** If this measurement is reduced, the pull-out force increases by **11%** in the case of **compression-proof** substrates and by 32% 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



dimensions in mm

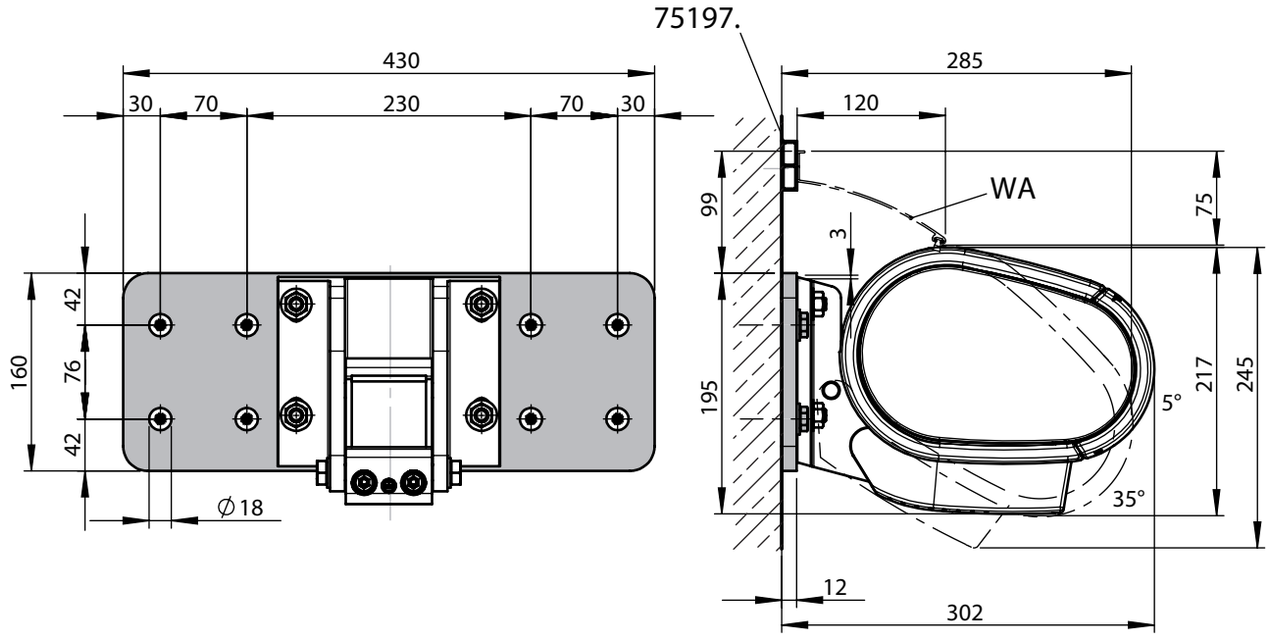
Face fixture with spreader plate A

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]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	266	306	346	386	427	467	507	547	587	483	378	435	492	549	606	663	720	777	834	686
200	---	493	555	617	680	742	805	867	929	787	---	700	789	877	966	1055	1143	1232	1321	1119
250	---	---	795	884	973	1063	1152	1241	1490	1299	---	---	1130	1257	1383	1510	1637	1763	2118	1846
300	---	---	---	1179	1299	1420	1734	1873	2012	1780	---	---	---	1675	1846	2017	2464	2661	2858	2530
350	---	---	---	---	1731	2126	2307	2488	2232	2400	---	---	---	---	2460	3021	3279	3536	3171	3411
400	---	---	---	---	---	2662	2890	3119	---	2983	---	---	---	---	---	3782	4108	4433	---	4240
HT|BHT	2 | 180 mm				3 | 180 mm				4 | 180 mm		2 | 180 mm				3 | 180 mm				4 | 180 mm	
BP	2				2				3		2				2				3	
DP	---				1				1		---				1				1	
BM	16				20				28		16				20				28	

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 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

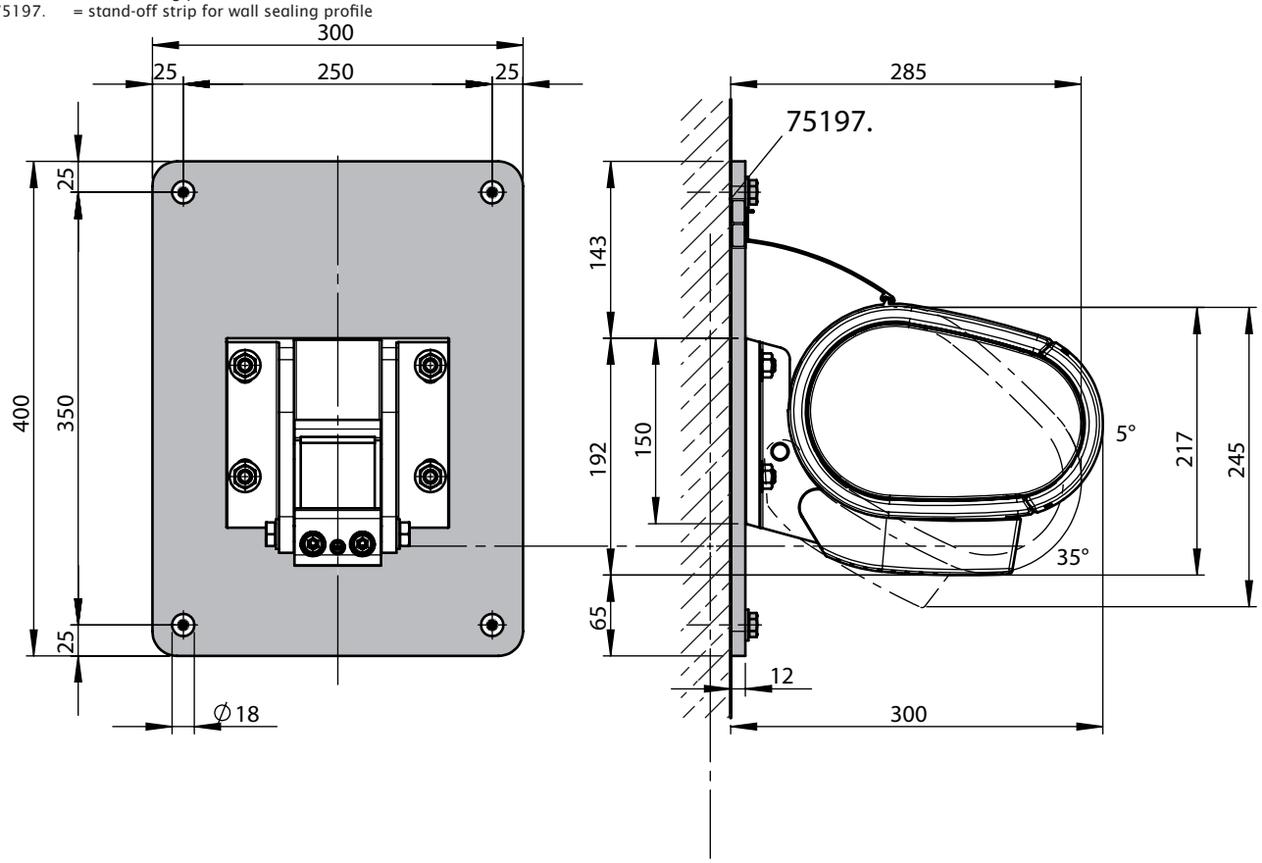
Face fixture with spreader plate B

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

	compression-proof substrate										non compression-proof substrate									
	M [cm]										M [cm]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	158	181	205	229	252	276	300	324	347	286	164	189	214	238	263	288	313	337	362	298
200	---	292	328	365	402	439	476	513	550	466	---	304	343	381	420	458	496	535	573	486
250	---	---	471	523	576	629	682	734	882	769	---	---	491	546	601	656	711	766	920	802
300	---	---	---	698	769	840	1026	1108	1190	1054	---	---	---	727	802	876	1070	1156	1241	1099
350	---	---	---	---	1024	1258	1365	1472	1321	1420	---	---	---	---	1068	1312	1424	1536	1377	1481
400	---	---	---	---	---	1575	1711	1846	---	1766	---	---	---	---	---	1643	1784	1925	---	1841
HT|BHT	2 | 180 mm				3 | 180 mm				4 | 180 mm		2 | 180 mm				3 | 180 mm				4 | 180 mm	
BP	2				2				3		2				2				3	
DP	---				1				1		---				1				1	
BM	8				12				16		8				12				16	

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 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
75197. = stand-off strip for wall sealing profile



dimensions in mm

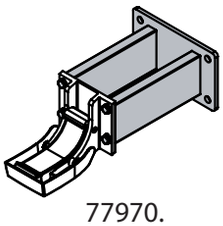
Face fixture with stand-off brackets

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

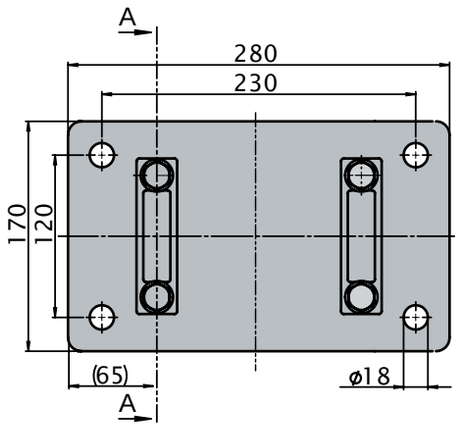
	compression-proof substrate										non compression-proof substrate									
	M [cm]										M [cm]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	550	632	713	795	876	958	1040	1121	1203	989	619	711	803	894	986	1078	1170	1261	1353	1112
200	---	969	1090	1211	1333	1454	1576	1697	1818	1540	---	1090	1226	1363	1499	1636	1772	1909	2046	1733
250	---	---	1512	1680	1849	2017	2185	2354	2835	2471	---	---	1701	1890	2080	2269	2458	2648	3189	2779
300	---	---	---	2188	2410	2633	3223	3480	3737	3307	---	---	---	2461	2712	2962	3626	3915	4204	3721
350	---	---	---	---	3157	3884	4214	4544	4075	4382	---	---	---	---	3552	4370	4741	5112	4584	4930
400	---	---	---	---	---	4795	5206	5618	---	5372	---	---	---	---	---	5394	5857	6320	---	6043
HT|BHT	2 | 180 mm				3 | 180 mm				4 | 180 mm		2 | 180 mm				3 | 180 mm				4 | 180 mm	
DH 77970.	2				3				4		2				3				4	
BM	8				12				16		8				12				16	

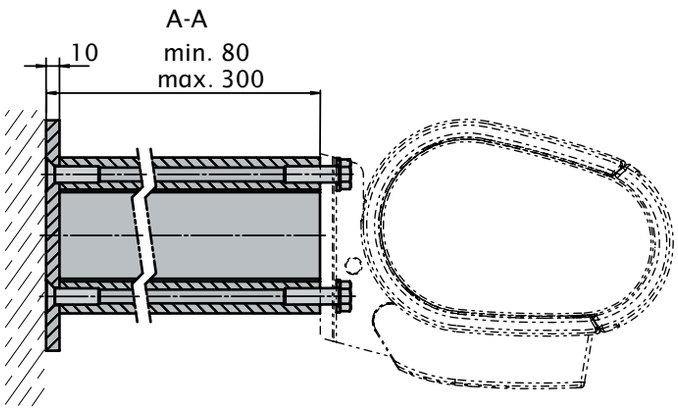
The pull-out force refers to the vertical centre to centre measurement between the fixing points of **120 mm**. In the case of spacer brackets a washer conforming to DIN 9021 must be used.

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
77970. = spacer brackets for face fixture brackets 74909. and 74928.



77970.





dimensions in mm

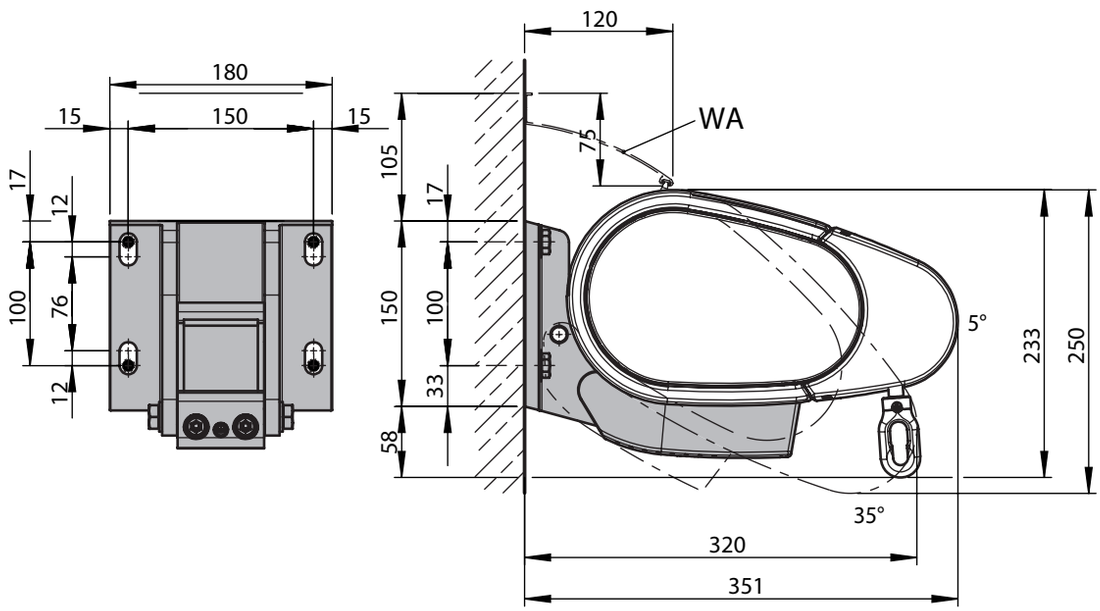
Face fixture with shadeplus / drop valance

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]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	695	808	921	1034	1147	1259	1372	1485	1598	1373	855	993	1132	1271	1410	1549	1688	1827	1966	1689
200	---	1225	1391	1558	1724	1890	2057	2223	2389	2130	---	1507	1711	1916	2121	2325	2530	2734	2939	2620
250	---	---	1944	2171	2399	2627	2854	3082	3589	3292	---	---	2391	2671	2951	3231	3511	3791	4414	4049
300	---	---	---	2812	3109	3406	4041	4370	4698	4368	---	---	---	3459	3824	4189	4970	5375	5779	5373
350	---	---	---	---	4005	4795	5213	5630	5357	5747	---	---	---	---	4926	5898	6412	6925	6589	7069
HT|BHT	2 | 180 mm				3 | 180 mm				4 | 180 mm		2 | 180 mm				3 | 180 mm				4 | 180 mm	
BM	8				12				16		8				12				16	

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **100 mm.** If this measurement is reduced, the pull-out force increases by **11%** in the case of **compression-proof** substrates and by 32% 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



dimensions in mm

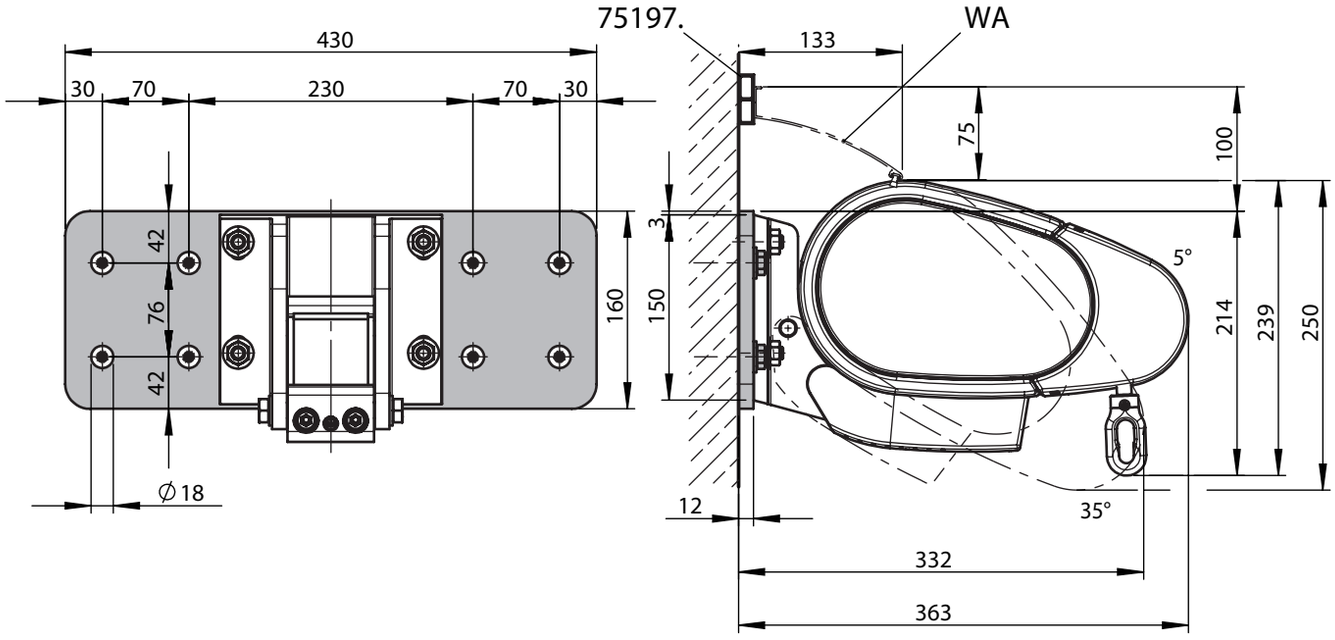
Face fixture with shadeplus and spreader plate A

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]																			
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	400	465	530	595	660	725	790	855	920	758	568	661	753	845	938	1030	1122	1215	1307	1077
200	---	704	799	895	990	1086	1181	1277	1372	1165	---	1000	1135	1271	1407	1543	1678	1814	1950	1656
250	---	---	1115	1245	1376	1506	1637	1767	2058	1796	---	---	1584	1769	1955	2140	2326	2511	2925	2553
300	---	---	---	1611	1781	1951	2315	2503	2692	2385	---	---	---	2289	2531	2773	3290	3558	3825	3389
350	---	---	---	---	2293	2746	2984	3223	2894	3116	---	---	---	---	3258	3902	4241	4581	4113	4429
HT|BHT	2 | 180 mm				3 | 180 mm				4 | 180 mm		2 | 180 mm				3 | 180 mm				4 | 180 mm	
BP	2				2				3		2				2				3	
DP	---				1				1		---				1				1	
BM	16				20				28		16				20				28	

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 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
BM = no. of fixing points
DP = no. of spacer plates
WA = wall sealing profile
75197. = stand-off strip for wall sealing profile



dimensions in mm

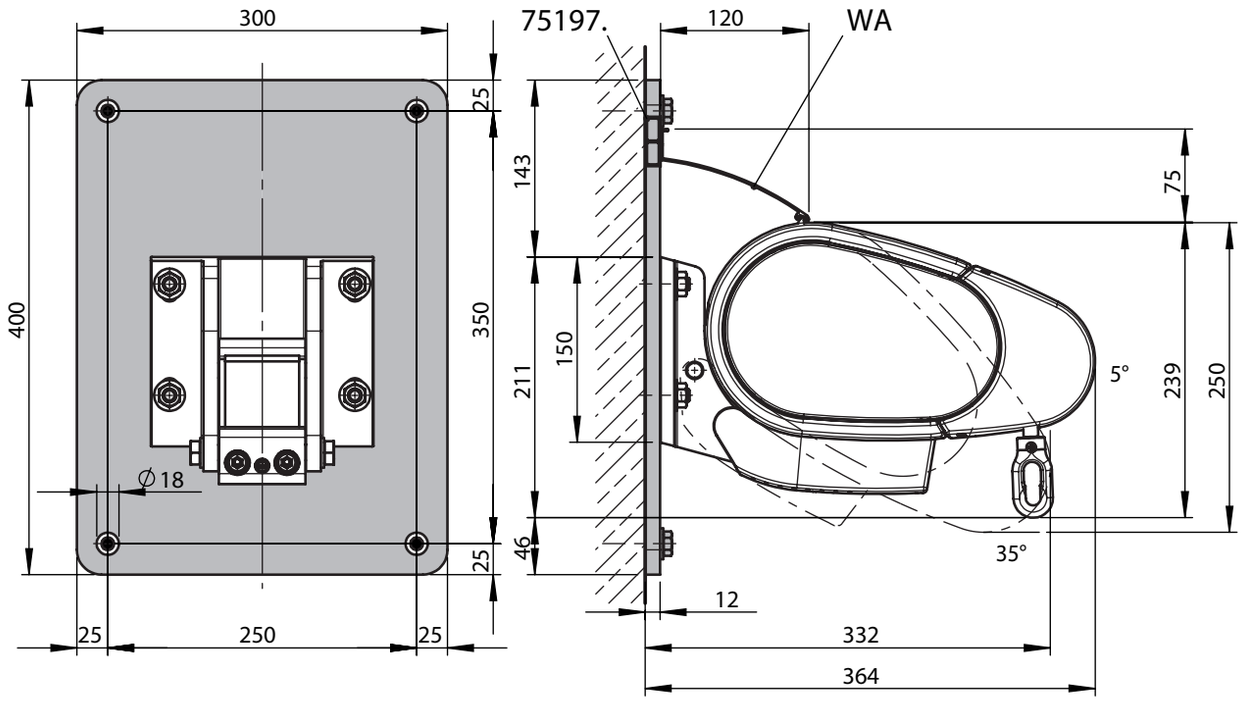
Face fixture with shadeplus and spreader plate B

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

	compression-proof substrate										non compression-proof substrate									
	M [cm]										M [cm]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	237	275	314	352	390	429	467	506	544	449	247	287	327	367	407	447	487	527	568	468
200	---	416	473	529	586	642	699	755	812	690	---	434	493	552	611	670	729	788	847	719
250	---	---	660	737	814	891	969	1046	1218	1063	---	---	688	768	849	930	1010	1091	1270	1109
300	---	---	---	953	1054	1155	1370	1482	1593	1411	---	---	---	994	1099	1204	1429	1545	1661	1472
350	---	---	---	---	1357	1625	1766	1908	1713	1844	---	---	---	---	1415	1694	1842	1989	1786	1923
HT|BHT	2 | 180mm				3 | 180mm				4 | 180mm		2 | 180mm				3 | 180mm				4 | 180mm	
BP	2				2				3		2				2				3	
DP	---				1				1		---				1				1	
BM	8				12				16		8				12				16	

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 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
BM = no. of fixing points
DP = no. of spacer plates
WA = wall sealing profile
75197. = stand-off strip for wall sealing profile



dimensions in mm

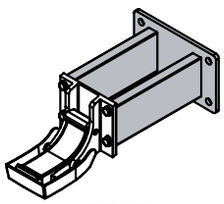
Face fixture for shadeplus / drop valance with stand-off brackets

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

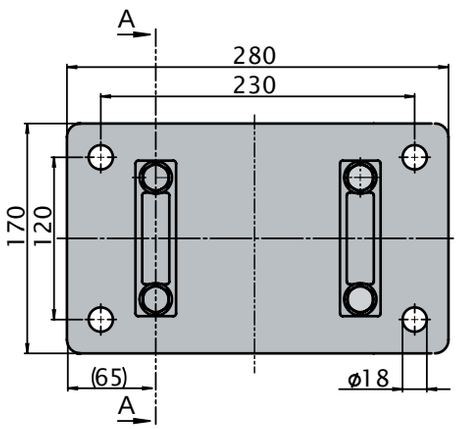
	compression-proof substrate										non compression-proof substrate									
	M [cm]																			
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	807	936	1065	1194	1323	1452	1581	1710	1839	1515	908	1053	1199	1344	1489	1634	1779	1924	2069	1705
200	---	1357	1539	1721	1903	2085	2267	2449	2631	2233	---	1526	1731	1936	2141	2345	2550	2755	2959	2512
250	---	---	2087	2329	2571	2813	3055	3297	3852	3361	---	---	2347	2620	2892	3164	3437	3709	4333	3781
300	---	---	---	2951	3260	3569	4246	4591	4935	4371	---	---	---	3320	3668	4016	4777	5164	5552	4917
350	---	---	---	---	4135	4962	5392	5822	5227	5626	---	---	---	---	4652	5582	6066	6550	5880	6330
HT|BHT	2 | 180 mm				3 | 180 mm				4 | 180 mm		2 | 180 mm				3 | 180 mm				4 | 180 mm	
DH 77970.	2				3				4		2				3				4	
BM	8				12				16		8				12				16	

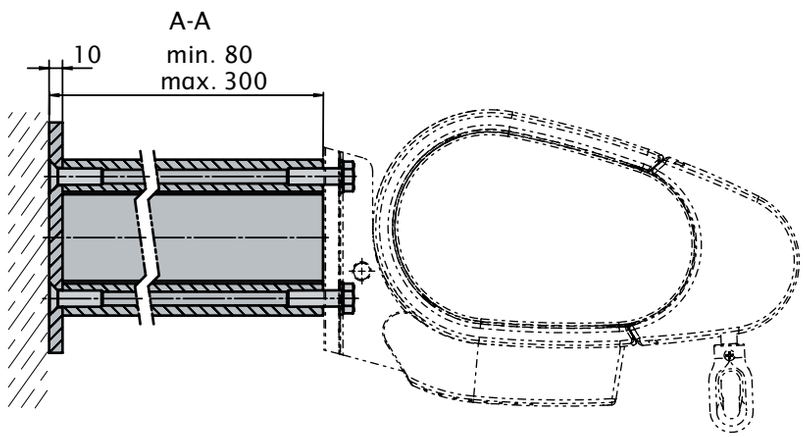
The pull-out force refers to the vertical centre to centre measurement between the fixing points of **120 mm**. In the case of spacer brackets a washer conforming to DIN 9021 must be used.

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
77970. = spacer brackets for face fixture brackets 74909. and 74928.



77970.





dimensions in mm

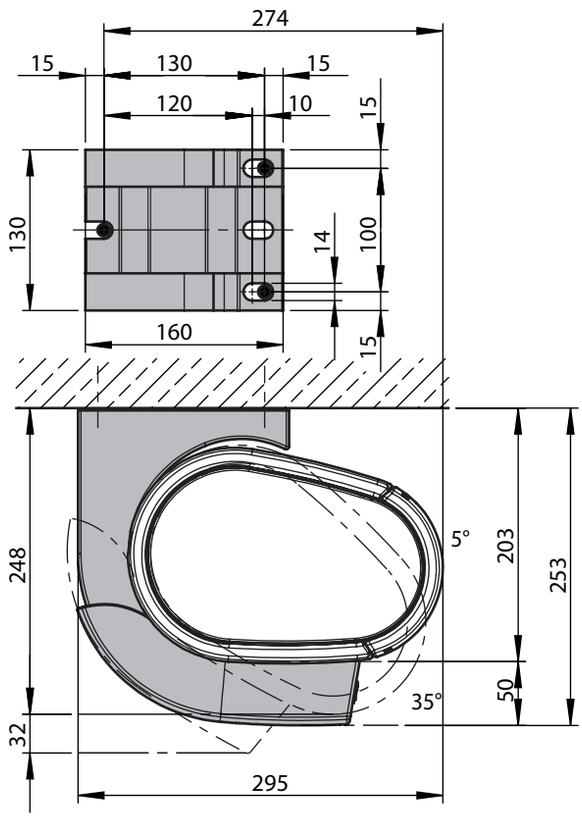
Top fixture

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

	compression-proof substrate										non compression-proof substrate									
	M [cm]										M [cm]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	483	559	635	711	787	863	939	1014	1090	983	499	578	656	734	813	891	969	1048	1126	1015
200	---	856	967	1079	1190	1301	1413	1524	1635	1507	---	886	1001	1116	1231	1347	1462	1577	1692	1558
250	---	---	1350	1504	1658	1812	1966	2120	2528	2364	---	---	1398	1558	1717	1877	2036	2196	2619	2448
300	---	---	---	1973	2177	2381	2893	3126	3359	3169	---	---	---	2045	2257	2468	2999	3241	3482	3284
350	---	---	---	---	2866	3507	3807	4108	3959	4241	---	---	---	---	2972	3637	3948	4260	4105	4398
400	---	---	---	---	---	4361	4738	5115	---	5220	---	---	---	---	---	4524	4915	5306	---	5414
HT|BHT	2 | 130 mm				3 | 130 mm				4 | 130 mm		2 | 130 mm				3 | 130 mm				4 | 130 mm	
BM	6				9				12		6				9				12	

The pull-out force refers to the horizontal centre to centre measurement between the fixing points of **130 mm**. If this measurement is reduced, the pull-out force increases by **7%** in the case of both **compression-proof** and **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



dimensions in mm

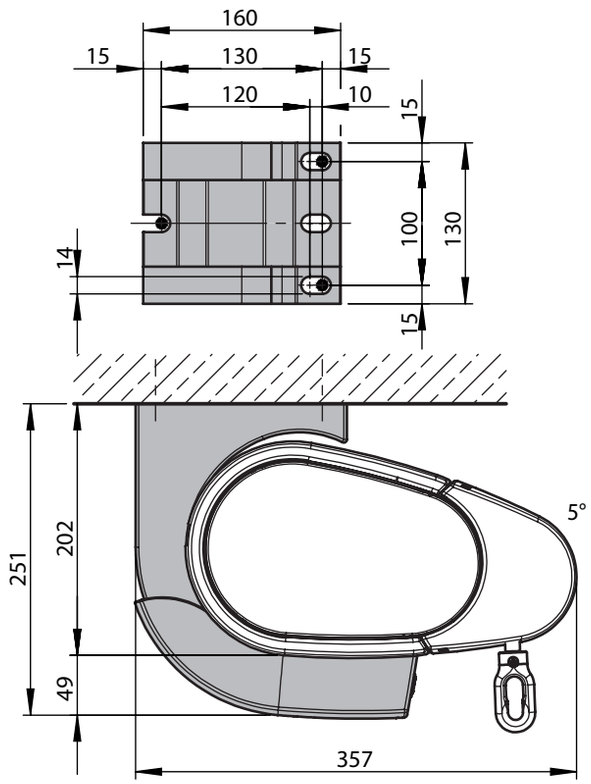
Top fixture with shadeplus / drop valance

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]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	FB [N]										FB [N]									
150	696	811	926	1042	1157	1272	1388	1491	1594	1389	720	839	959	1078	1197	1317	1436	1543	1650	1437
200	---	1191	1355	1519	1683	1847	2011	2163	2315	2078	---	1234	1404	1574	1744	1914	2083	2241	2398	2153
250	---	---	1858	2078	2298	2518	2738	2945	3407	3137	---	---	1926	2154	2382	2610	2838	3053	3533	3252
300	---	---	---	2662	2945	3228	3819	4119	4418	4117	---	---	---	2761	3054	3347	3961	4272	4583	4270
350	---	---	---	---	3761	4494	4887	5267	5018	5374	---	---	---	---	3901	4662	5070	5464	5206	5575
HT|BHT	2 | 130 mm				3 | 130 mm				4 | 130 mm		2 | 130 mm				3 | 130 mm				4 | 130 mm	
BM	6				9				12		6				9				12	

The pull-out force refers to the horizontal centre to centre measurement between the fixture points of **130 mm**. If this measurement is reduced, the pull-out force increases by **7%** in the case of both **compression-proof** and **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



dimensions in mm

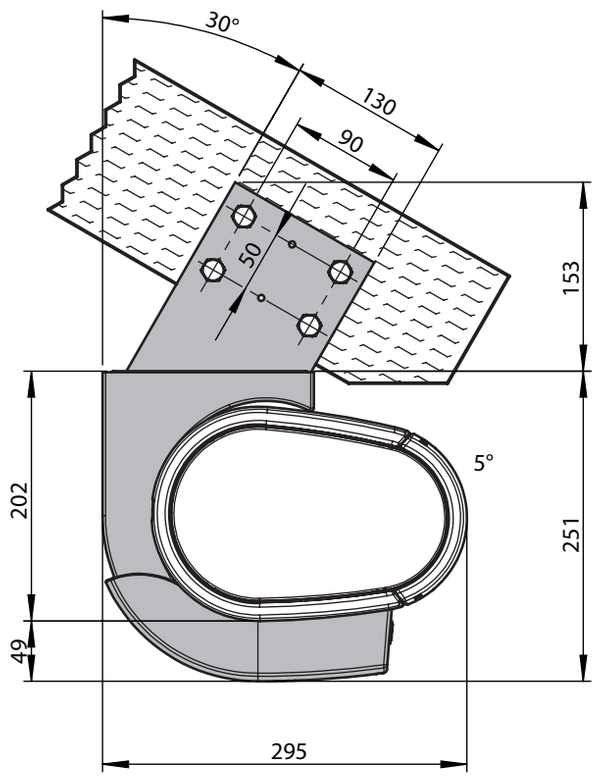
Eaves fixture

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

	torque										shear force									
	M [cm]										M [cm]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	Md [Nm]										FS [N]									
150	114	131	148	165	182	199	216	233	251	218	1387	1603	1818	2033	2248	2463	2678	2893	3109	2775
200	---	211	237	264	291	318	344	371	398	360	---	2492	2814	3136	3457	3779	4101	4422	4744	4346
250	---	---	341	379	417	455	494	532	639	591	---	---	3962	4412	4861	5311	5761	6210	7423	6916
300	---	---	---	506	557	609	744	804	863	808	---	---	---	5820	6419	7019	8542	9229	9915	9331
350	---	---	---	---	743	913	991	1069	1025	1098	---	---	---	---	8485	10395	11284	12173	11714	12549
400	---	---	---	---	---	1144	1242	1341	---	1362	---	---	---	---	---	12959	14077	15195	---	15484
HT	2				3				4		2				3				4	
BM	8				12				16		8				12				16	

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 used.

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



dimensions in mm

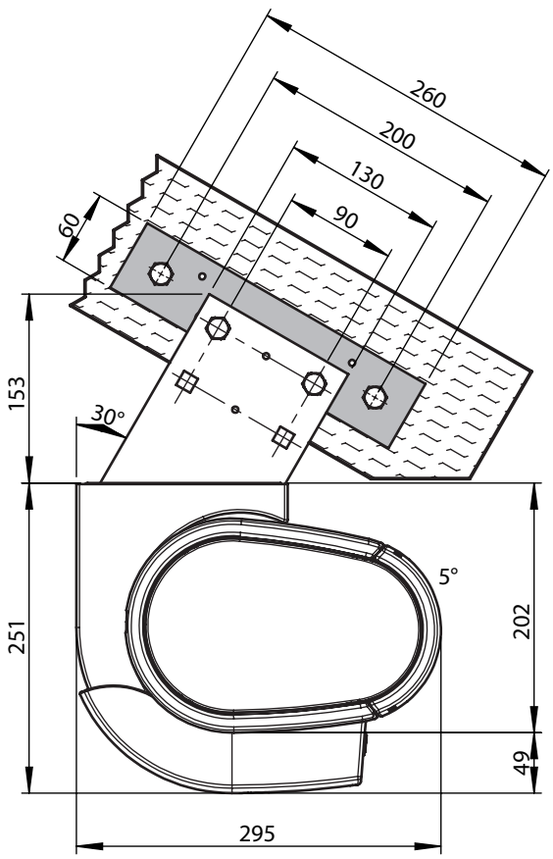
Eaves fixture with additional plate

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

	torque										shear force									
	M [cm]										M [cm]									
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700
H [cm]	Md [Nm]										FS [N]									
150	114	131	148	165	182	199	216	233	251	218	693	804	914	1025	1135	1246	1356	1467	1578	1441
200	---	211	237	264	291	318	344	371	398	360	---	1204	1362	1521	1679	1838	1997	2155	2314	2148
250	---	---	341	379	417	455	494	532	639	591	---	---	1879	2095	2311	2527	2744	2960	3519	3305
300	---	---	---	506	557	609	744	804	863	808	---	---	---	2729	3012	3296	3995	4318	4641	4391
350	---	---	---	---	743	913	991	1069	1025	1098	---	---	---	---	3942	4815	5229	5643	5450	5840
400	---	---	---	---	---	1144	1242	1341	---	1362	---	---	---	---	---	5969	6486	7003	---	7160
HT	2				3				4		2				3				4	
BM	4				6				8		4				6				8	

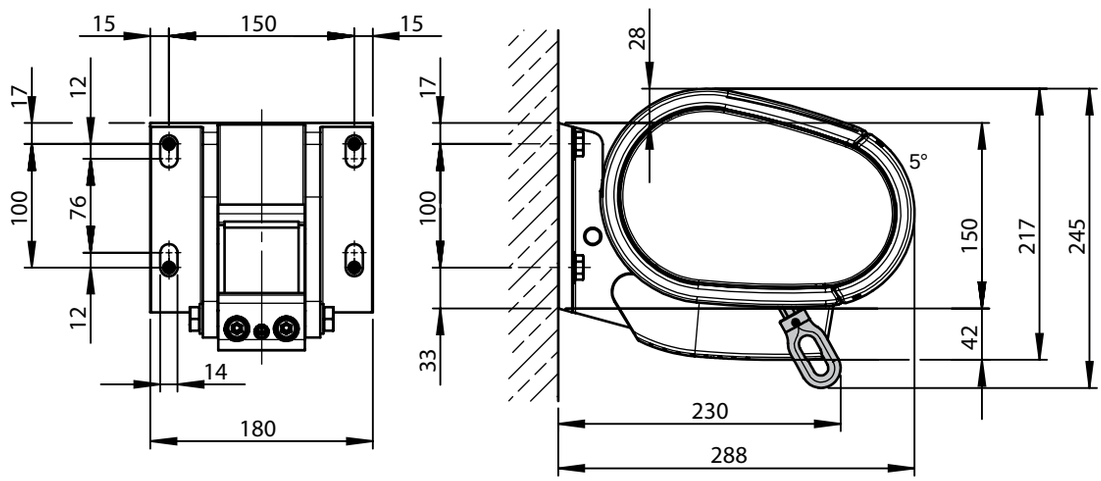
By using the additional flat fixture plate, the shear force is reduced in comparison with conventional eaves fixture.

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



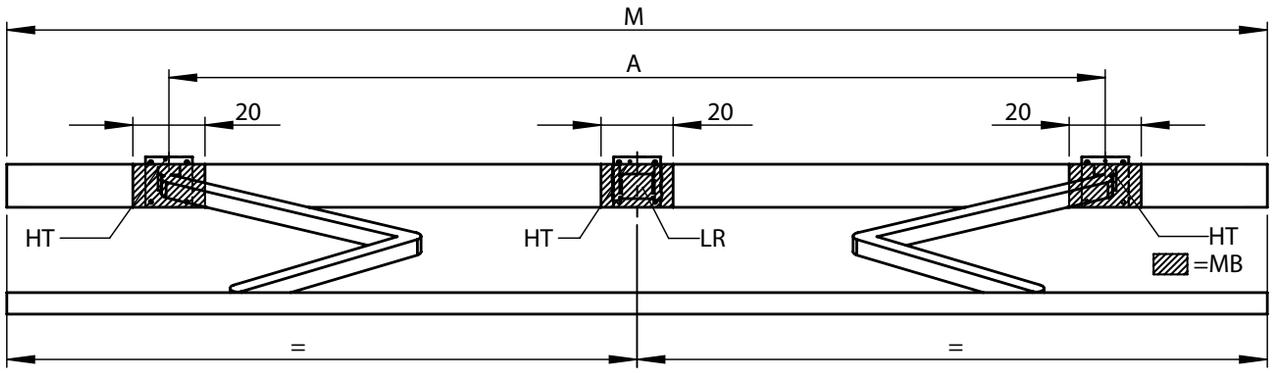
dimensions in mm

Face fixture with manual operation



dimensions in mm

Bracket range for awnings with 2 folding arms



dimensions in cm

M [cm]	SB ZB	250 208-250	300 251-300	350 301-350	400 351-400	450 401-450	500 451-500	550 501-550	600 551-600	650 601-650
		A [cm]								
H [cm]	150	187 ▲	210 ■	260	300	340	380	440	490	510
	200	---	237 ▲	260 ■	300	340	380	440	490	510
	250	---	---	287 ▲	300 ■	340	390	440	490	510
	300	---	---	---	337 ▲	340 ■	390	440	490	510
	350	---	---	---	---	387 ▲	390 ■	440	490	---
	400	---	---	---	---	---	437 ▲	445 ■	490 ■	---
W	HT | BHT 180 mm	2				3				
DE/DA	HT | BHT 130 mm	2				3				

dimensions in cm

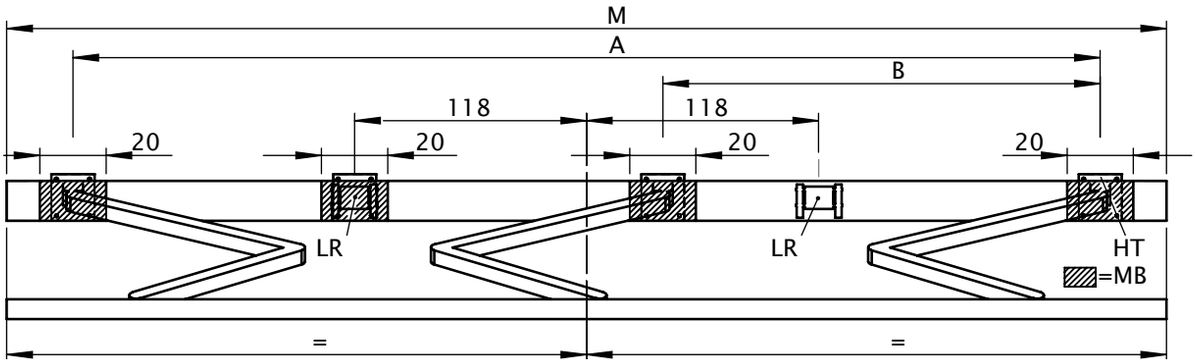
▲ = please note the minimum widths, dimension A is only valid for standard arms! (Dimension A is 13 cm smaller in the case of bespoke arms.). Coupled units are not available with junction roller.

■ = coupled units are only available with junction roller in the standard widths, in the case of other widths please ask us.

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!

Bracket range for awnings with 3 folding arms



dimensions in cm

M [cm]	SB ZB		650		700 651-700		KM [cm]
			A [cm]	B [cm]	A [cm]	B [cm]	
H [cm]	150		---	---	600	265	650
	200		---	---	600	240	650
	250		---	---	600	230	650
	300		---	---	610	230	650
	350		625 •	230 •	625/645* ▲	230 ▲	650
	400		---	---	670 •	230 •	700
W	HT | BHT	180 mm	4				
DE/DA	HT | BHT	130 mm	4				

dimensions in cm

▲ = please note the minimum widths, only possible with a junction roller at a width of 700 cm.

• = please note the minimum widths, coupled units are not possible.

* = arm position for awnings with spot lighting

M = overall awning width
H = projection
A = arm position
B = arm position
LR = rolltex bearing with bracket is always placed under a central seam
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
KM = minimum awning width

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

Spot lighting

Possible number of spotlights						
widths in cm	150	200	250	300	350	400
238–250	2	–	–	–	–	–
251–277	–	–	–	–	–	–
278–287	3	–	–	–	–	–
288–300	3	2	–	–	–	–
301–317	–	–	–	–	–	–
318–337	3	3	–	–	–	–
338–387	3	3	2	–	–	–
388–400	3	3	2	2	–	–
401–437	3	3	3	2	–	–
438–450	3	3	3	2	2	–
451–457	6	6	–	–	–	–
458–500	6	6	6	6	4	–
501–507	–	–	–	–	–	–
508–517	6	6	6	6	6	–
518–550	6	6	6	6	6	4
551–557	–	–	–	–	–	–
558–562	6	6	6	6	6	–
563–600	6	6	6	6	6	6
601–650	6	6	6	6	–	–
651–657	6*	6*	6*	–	–	–
658–687	6*	6*	6*	6*	–	–
688–700	6*	6*	6*	6*	6*	–

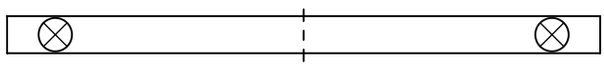
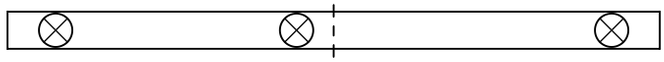
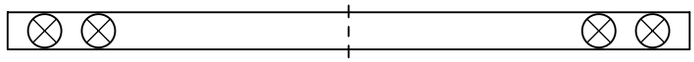
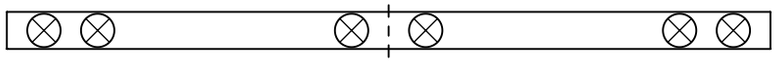
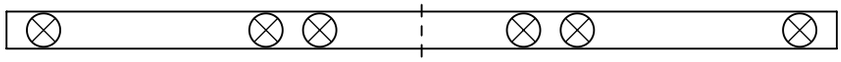
6* = spotlight distribution in the case of 3 folding arms

Up to six spotlights can be fitted to the front profile. They can be adjusted individually so that the area under the whole awning can be bathed in a pleasant light according to your requirements.

With the addition of a dimmer it is possible to regulate the light intensity yourself. An integrated timer ensures that the lights switch themselves off automatically after six hours. The lighting can be reactivated by double-clicking either the switch or the remote control.

Please determine from the table on the left how many spotlights we supply with the shown dimensions. Due to the fact that the folding arms retract into the front profile this type of lighting is not available in some awning sizes.

Coupled units on request.

Spotlight distribution, 2 folding arms	
number of spotlights	markilux spotlight distribution in the front profile
2	
3	
4	
6	
Spotlight distribution 3 folding arms	
6	

Spotlight controls	
standard on/off switch	•
radio-controlled dimmer	○
RTS operation on/off	○

• = standard specification
○ = optional accessories

Technical specification	
operating voltage	230 V, 50 Hz (0.3 A per transformer)
spotlight power output	20 W
light source	OSRAM Decostar 35S (12 V)
power supply cable	3 x 1 mm²
no. of transformers	1 piece in the case of 2 or 3 spotlights, 2 pieces in the case of 4 or 6 spotlights