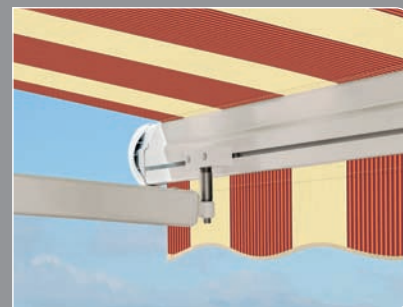


safe - timeless - beautiful

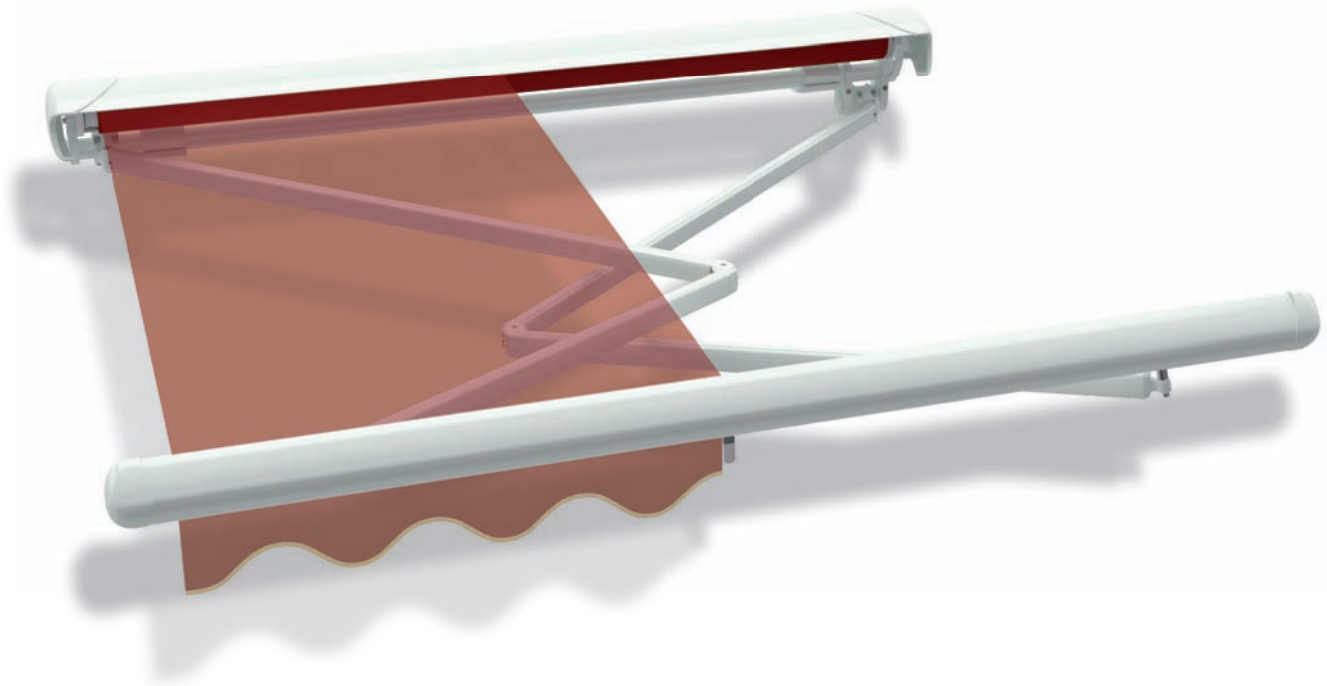


markilux 1600 stretch

The perfect solution for narrow patios, niches and balconies



markilux



markilux 1600 stretch

The perfect solution for narrow patios, niches and balconies

Design features

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

Technical highlights

- thanks to this innovative technical solution - tiered arms - large projections can still be achieved in narrow awnings
- 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
- folding arms with perfected power transference by means of twin, steel-link chains and direct coupling of the springs. maximum safety even in the case of large projections

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
- in the case of manual operation ease of use is ensured with the spring-assisted gearbox
- wall sealing profile to cover the gap between awning and wall
- available with a valance
- awning available in non-standard RAL colours

markilux 1600 stretch

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

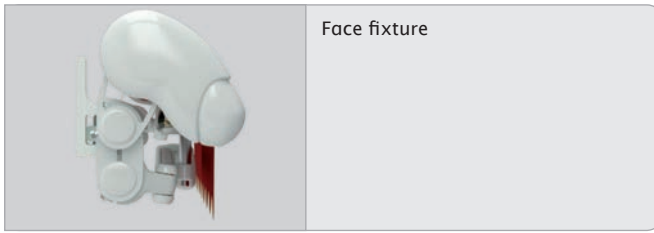
markilux 790

markilux 75

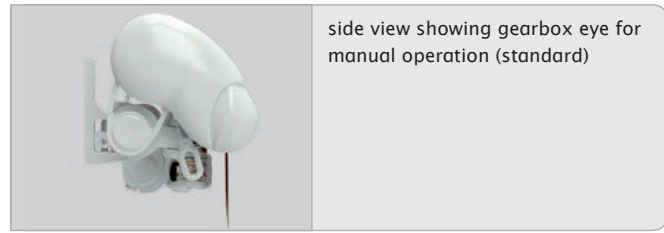
Optional Accessories

Technical Information

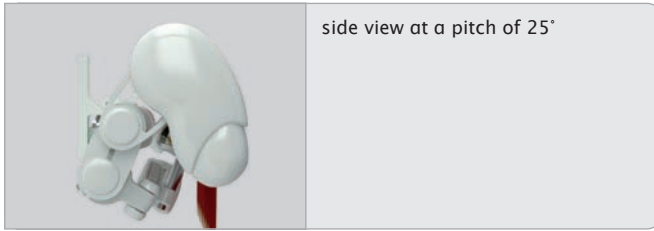
Fitting Accessories



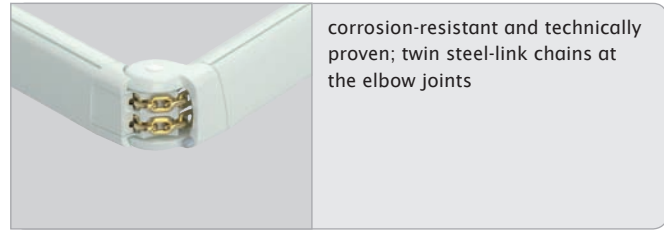
Face fixture



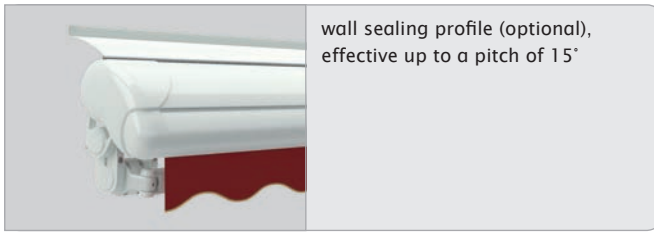
side view showing gearbox eye for manual operation (standard)



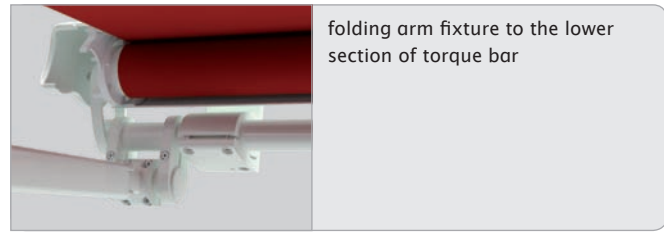
side view at a pitch of 25°



corrosion-resistant and technically proven; twin steel-link chains at the elbow joints



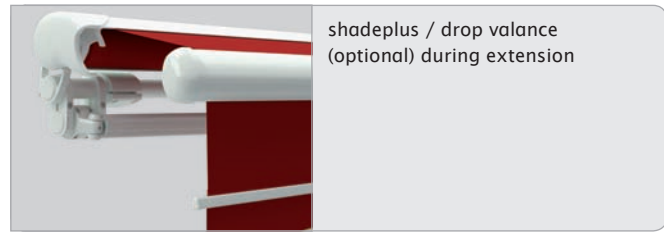
wall sealing profile (optional), effective up to a pitch of 15°



folding arm fixture to the lower section of torque bar



arm connection to the front profile



shadeplus / drop valance (optional) during extension

Standard specification

manual operation with stainless steel winding handle

valance

bonded awning cover

sunsilk snc fabric

sunsilk snc signature fabric

acrylic fabric 34

widely woven acrylic fabric

PVC fabric

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

Shadeplus / drop valance

wall sealing profile

light and wind sensor

infra-red heater

Vibrabox / Sunis light sensor

non-standard powder-coated finish

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

Dimensions and configuration options

projection	awning width								minimum widths			
									motor ¹⁾		manual operation ¹⁾	
	160 122-160	185 161-185	210 186-210	235 211-235	260 236-260	310 261-310	360 311-360	410 361-410	standard	bespoke arms	standard	bespoke arms
150	4)		2)						135	122	139	126
200	4)			2)	2)				160	147	164	151
250		4)				2)			185	172	189	176
300			4)				2)		210	197	214	201
350				4)				2)	235	222	239	226
400 ³⁾					4)				260	247	264	251

dimensions in cm

- 1) the dimensions are only valid for fixture without spreader plates (2 folding arms)
- 2) intermediate widths on request
- 3) a Shadeplus is not possible.
- 4) please note the minimum widths!

 = available, 2 folding arms

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	
sun silk snc (fabric series 324xx/329xx)	●
sun silk snc signature (fabric series 369xx)	●
acrylic 34 (fabric series 341xx-347xx)	●
widely woven acrylic (fabric series 349xx)	● ¹
sun silk perla FR (fabric series 374xx/379xx)	○
transolair (fabric series 339xx)	–
Soltis 92	○ ²
PVC fabric	● ³
Miscellaneous	
coverboard	–
system coverboard	–
wall sealing profile	○ ⁴
pitch adjustment gear	–
insertable side blind	○
light and wind sensor	○
valance	● ⁵
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 = only up to an extension of 300 cm
- ² = only up to an extension of 250 cm
- ³ = only up to an extension of 250 cm
- ⁴ = wall sealing profile effective up to a maximum awning pitch of 15°
- ⁵ = valance shape 6 (please refer to the section "Fabric Collection")

Housing tolerances / Awning cover dimensions	width	projection
housing tolerance	+5 / -15	
awning cover width = width less	260	
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 5° to 25° (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.**

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".

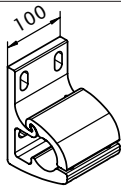
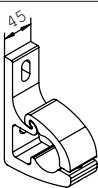
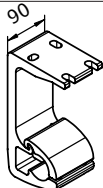
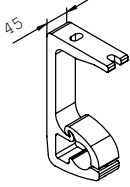
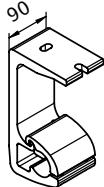
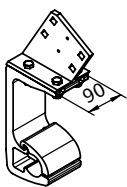
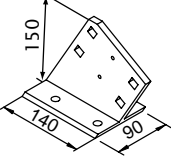
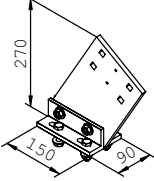
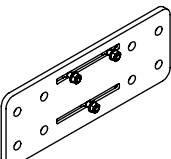
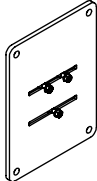
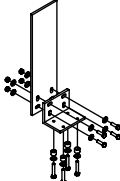
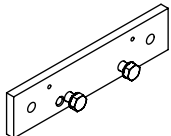
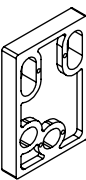
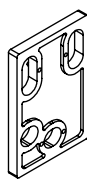
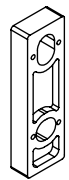

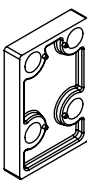


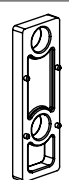
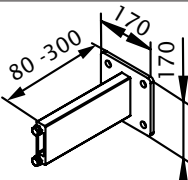
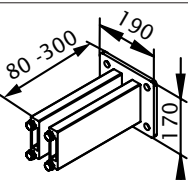
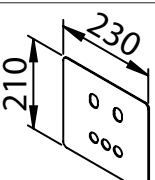
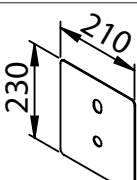
A Shadeplus is not available with a PVC cover.

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

Frame colours		
traffic white - RAL 9016		●
white 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)		●
non-standard powder-coated finish		○

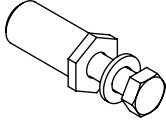
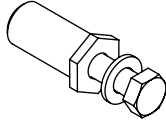
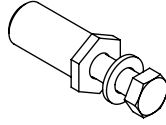
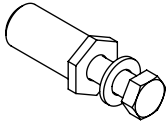
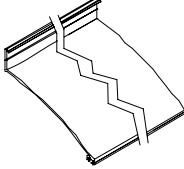
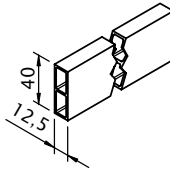
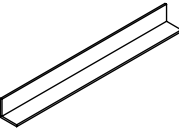
* Colours similar to the RAL chart - these may differ slightly from those depicted in both hue and finish.

Fixtures, fittings and accessories

 <p>Face fixture bracket assembly 100 mm 70867.</p>	 <p>Face fixture bracket assembly 45 mm 71813.</p>	 <p>Top fixture bracket assembly 90 mm 70868.</p>
 <p>Top fixture bracket assembly 45 mm 71818.</p>	 <p>Top fixture bracket assembly for central fixture 70869.</p>	 <p>Eaves fixture bracket assembly 90 mm complete set 70871.</p>
 <p>Eaves fixture bracket 150 mm 71612.</p>	 <p>Eaves fixture bracket assembly 270 mm 71659.</p>	 <p>Spreader plate A (including bracket bolts) 160 x 430 x 12 mm 75326.</p>
 <p>Spreader plate B 300 x 400 x 12 mm 75325.</p>	 <p>Flat plate and angled bracket for eaves fixture machine finish 716620</p>	 <p>Additional eaves fixture plate assembly 60 x 260 x 12 mm 75383.</p>
 <p>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</p>	 <p>Spacer plate for face fixture 100 x 150 x 12 mm (please refer to the section "Technical Information") 718241</p>	 <p>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</p>
 <p>Spacer plate for face fixture 45 x 150 x 12 mm (please refer to the section "Technical Information") 71826.</p>	 <p>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</p>	 <p>Spacer plate for top fixture 90 x 140 x 12 mm (please refer to the section "Technical Information") 716411</p>
 <p>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</p>	 <p>Spacer plate for top fixture 45 x 140 x 12 mm (please refer to the section "Technical Information") 716371</p>	 <p>Spacer bracket for face fixture bracket 71813. (please refer to the section "Technical Information") 77967.</p>
 <p>Spacer bracket for face fixture bracket 70867. (please refer to the section "Technical Information") 77968.</p>	 <p>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.</p>	 <p>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.</p>

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

Fixtures, fittings and accessories

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

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

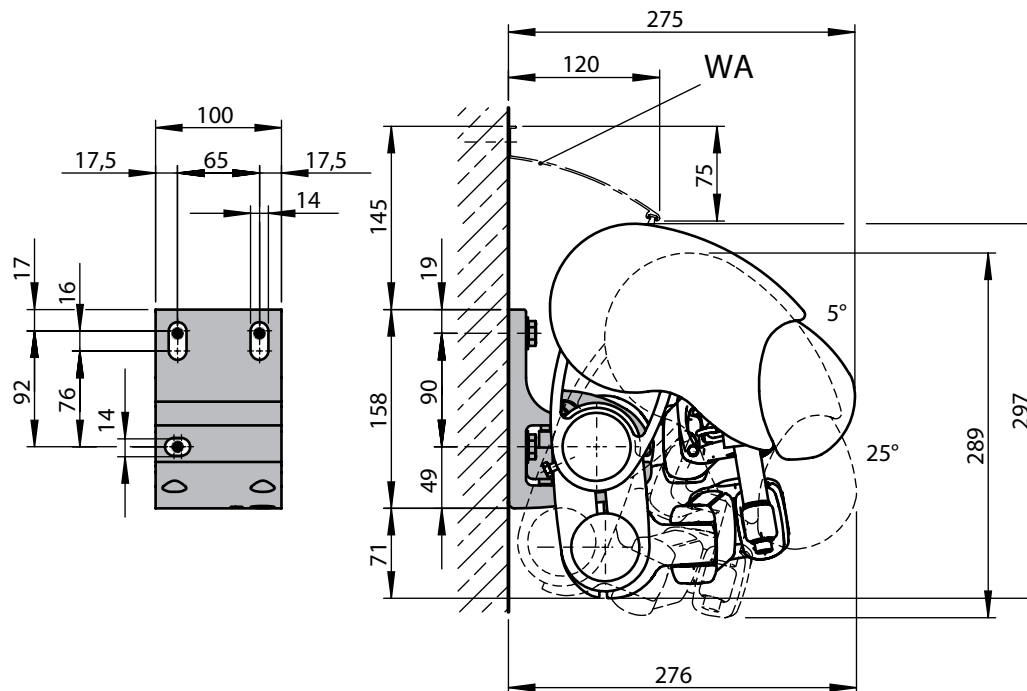
Face fixture

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	344	379	---	---	---	---	---	---	470	517	---	---	---	---	---	---
200	523	577	631	---	---	---	---	---	714	788	862	---	---	---	---	---
250	---	854	932	1009	1087	---	---	---	---	1167	1273	1379	1485	---	---	---
300	---	---	1239	1344	1449	1659	---	---	---	---	1693	1837	1980	2267	---	---
350	---	---	---	1724	1860	2133	2405	---	---	---	---	2356	2542	2915	3287	---
400	---	---	---	---	2586	2986	3386	3785	---	---	---	---	3534	4080	4627	5174
HT BHT	2 100 mm								2 100 mm							
BM	6								6							

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 14% 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



dimensions in mm

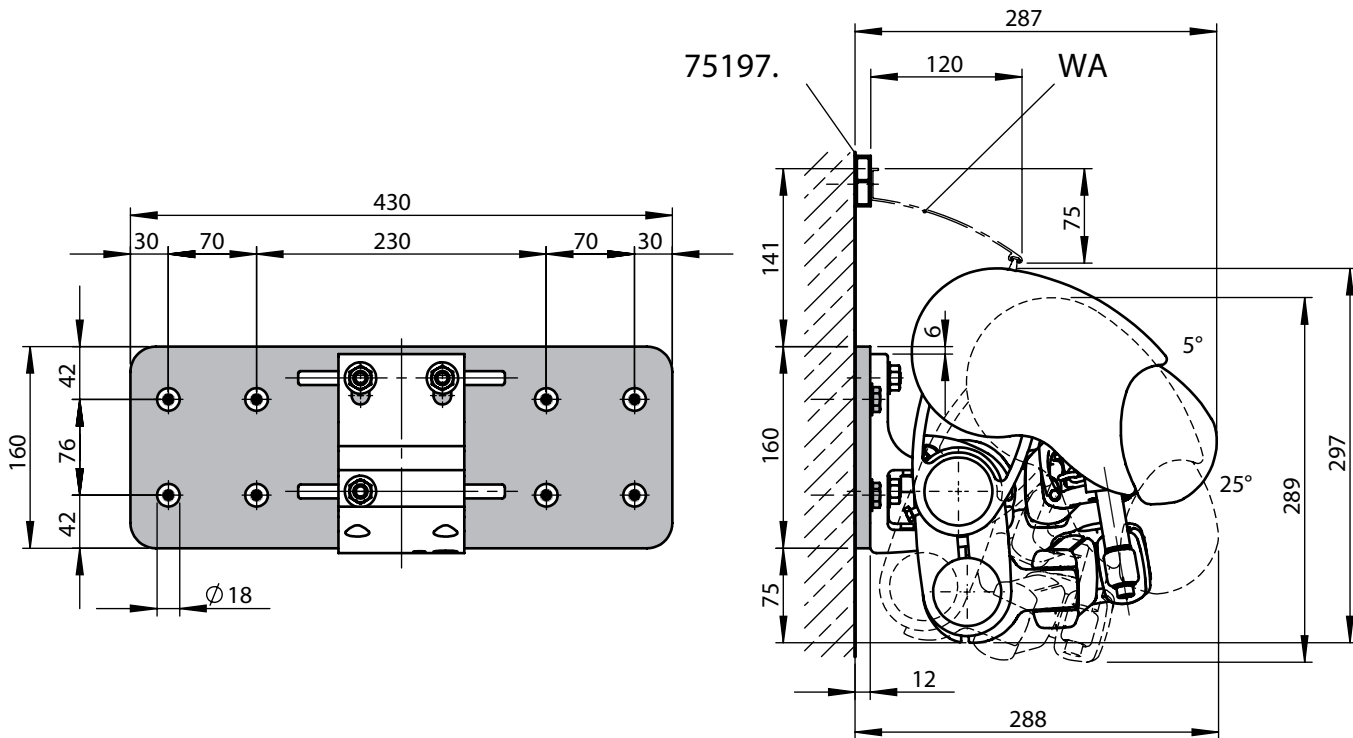
Face fixture with spreader plate A

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	198	218	---	---	---	---	---	---	282	310	---	---	---	---	---	---
200	300	332	363	---	---	---	---	---	427	471	516	---	---	---	---	---
250	---	490	535	579	624	---	---	---	---	697	760	823	887	---	---	---
300	---	---	710	771	831	951	---	---	---	---	1009	1095	1181	1352	---	---
350	---	---	---	987	1065	1222	1378	---	---	---	---	1403	1514	1736	1958	---
400	---	---	---	---	1480	1709	1938	2167	---	---	---	---	2104	2429	2754	3079
HT BHT	2 100 mm								2 100 mm							
BP	2								2							
BM	16								16							

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



dimensions in mm

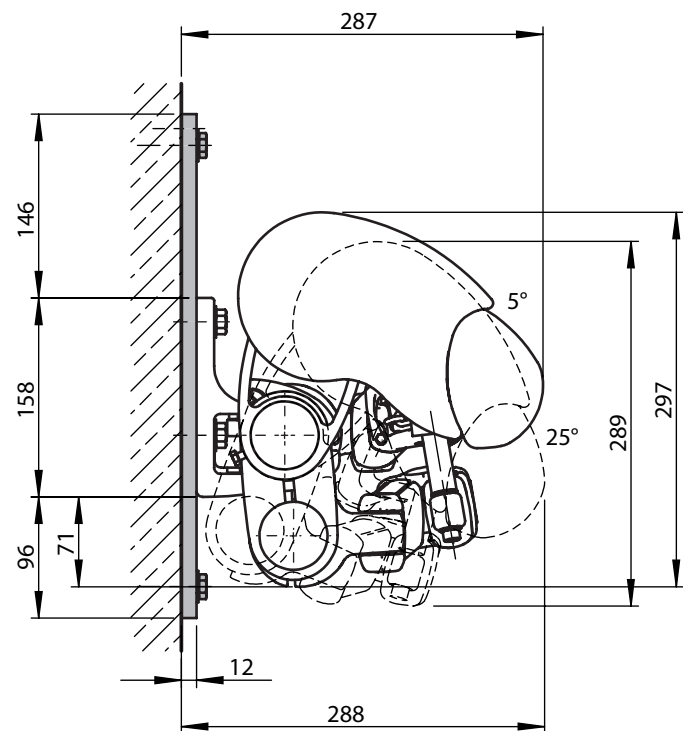
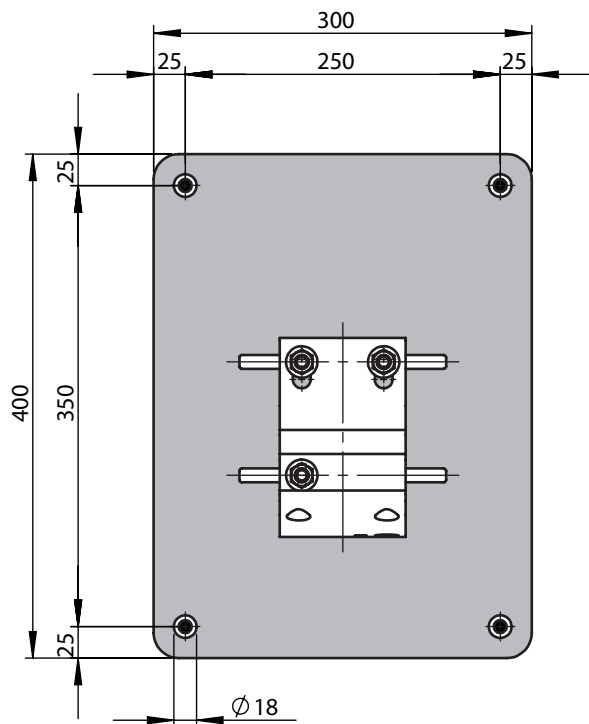
Face fixture with spreader plate B

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	117	129	---	---	---	---	---	---	122	135	---	---	---	---	---	---
200	178	196	215	---	---	---	---	---	185	205	224	---	---	---	---	---
250	---	290	316	343	369	---	---	---	---	303	330	358	385	---	---	---
300	---	---	420	456	492	563	634	---	---	---	438	476	513	587	---	---
350	---	---	---	584	631	723	815	---	---	---	---	609	658	754	850	---
400	---	---	---	---	876	1011	1147	1282	---	---	---	---	914	1055	1196	1337
HT BHT	2 100 mm								2 100 mm							
BP	2								2							
BM	8								8							

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
- BM = no. of fixing points



dimensions in mm

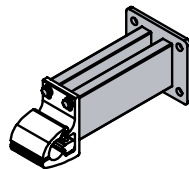
Face fixture with stand-off brackets

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

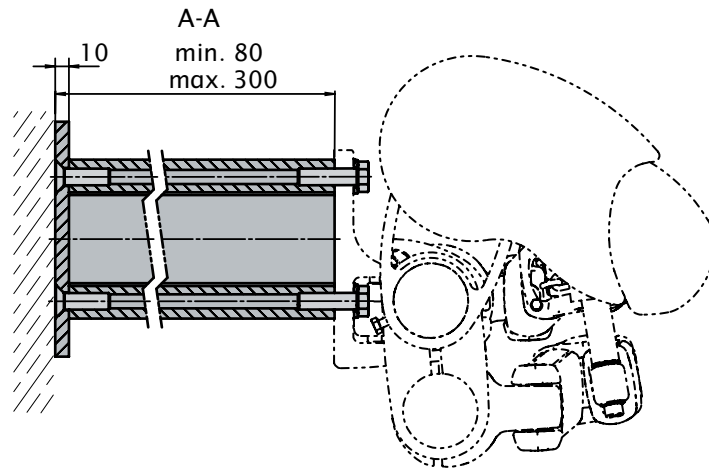
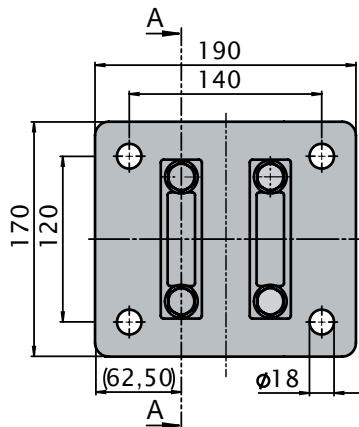
H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	412	452	---	---	---	---	---	---	463	509	---	---	---	---	---	---
200	593	653	714	---	---	---	---	---	667	735	803	---	---	---	---	---
250	---	935	1019	1103	1187	---	---	---	---	1052	1146	1241	1335	---	---	---
300	---	---	1321	1432	1544	1766	---	---	---	---	1486	1612	1737	1987	---	---
350	---	---	---	1803	1945	2228	2512	---	---	---	---	2028	2188	2507	2826	---
400	---	---	---	---	2668	3079	3491	3902	---	---	---	---	3001	3464	3927	4390
HT BHT	2 100 mm								2 100 mm							
DH 77968.	2								2							
BM	8								8							

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
- 77968. = spacer bracket for face fixture bracket 70867.



77968.



dimensions in mm

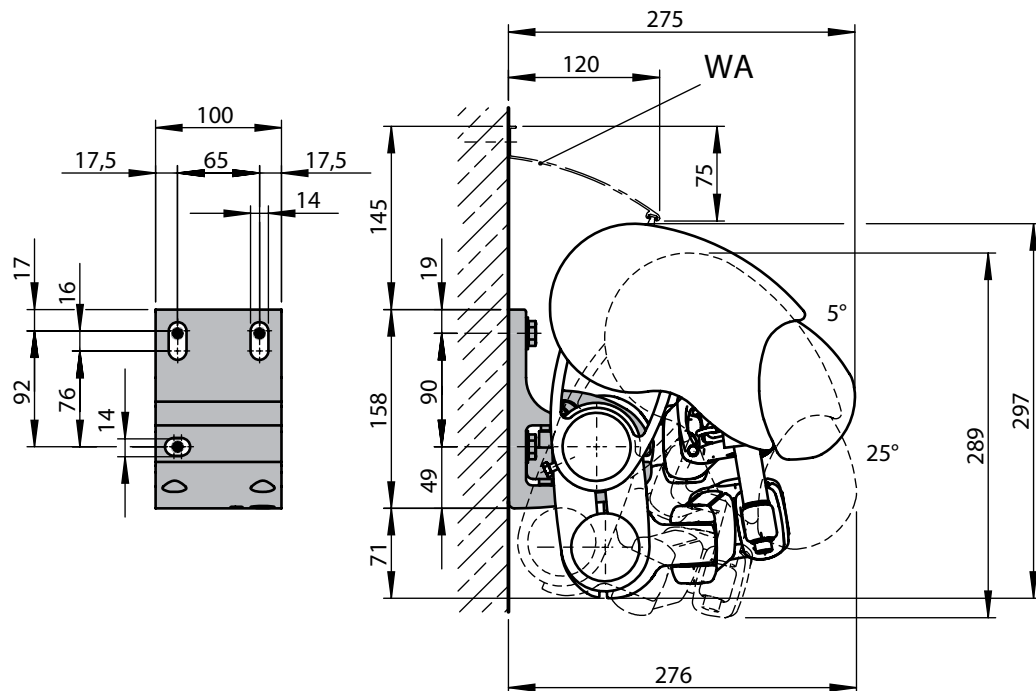
Face fixture with shadeplus

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	372	412	---	---	---	---	---	---	509	563	---	---	---	---	---	---
200	561	621	681	---	---	---	---	---	766	849	931	---	---	---	---	---
250	---	909	994	1080	1165	---	---	---	---	1243	1359	1475	1592	---	---	---
300	---	---	1314	1428	1542	1770	---	---	---	---	1796	1952	2108	2420	---	---
350	---	---	---	1822	1969	2262	2556	---	---	---	---	2490	2691	3092	3493	---
400	---	---	---	---	2710	3134	3558	3982	---	---	---	---	3704	4283	4862	5442
HT BHT	2 100 mm								2 100 mm							
BM	6								6							

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 14% 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



dimensions in mm

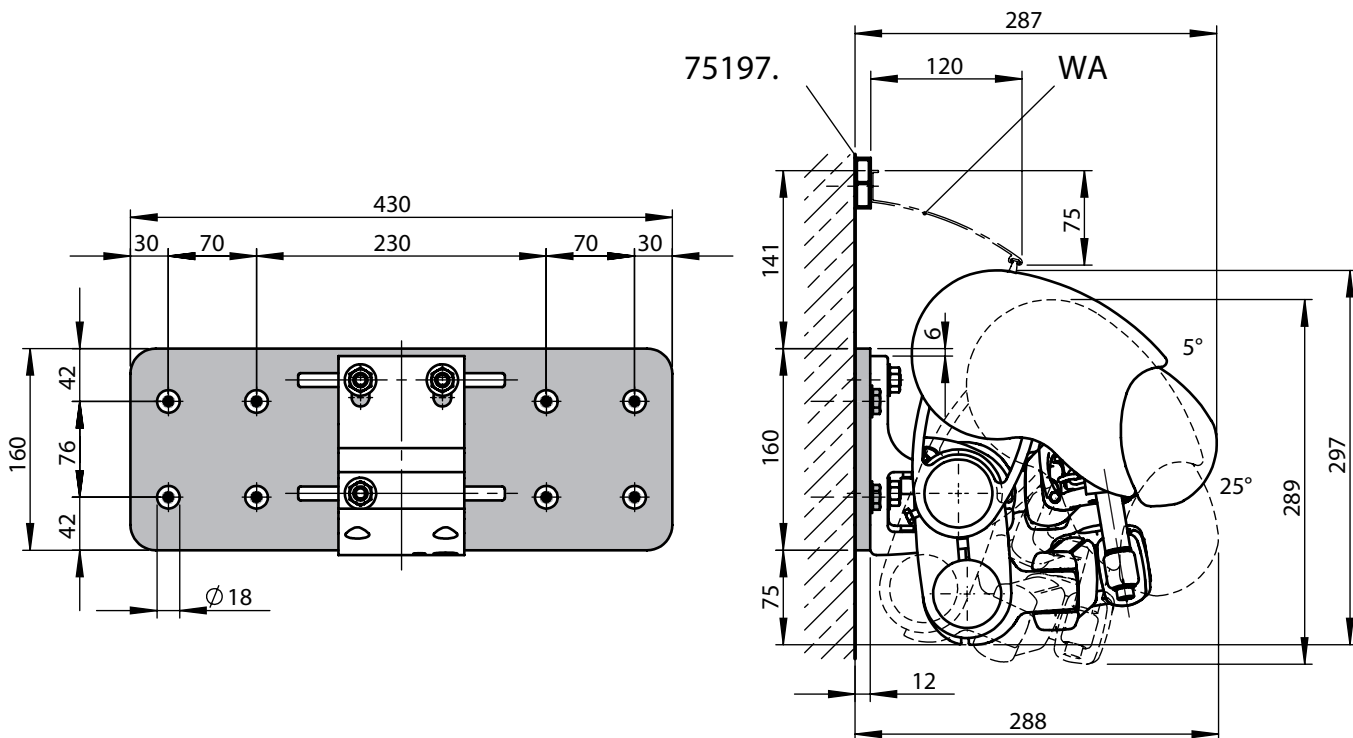
Face fixture with shadeplus and spreader plate A

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	215	237	---	---	---	---	---	---	305	337	---	---	---	---	---	---
200	322	357	392	---	---	---	---	---	458	507	556	---	---	---	---	---
250	---	522	571	620	668	---	---	---	---	742	811	880	950	---	---	---
300	---	---	753	819	884	1015	---	---	---	---	1071	1164	1256	1442	---	---
350	---	---	---	1044	1128	1296	1464	---	---	---	---	1483	1602	1841	2080	---
400	---	---	---	---	1551	1794	2036	2279	---	---	---	---	2205	2549	2894	3239
HT BHT	2 100 mm								2 100 mm							
BP	2								2							
BM	16								16							

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



dimensions in mm

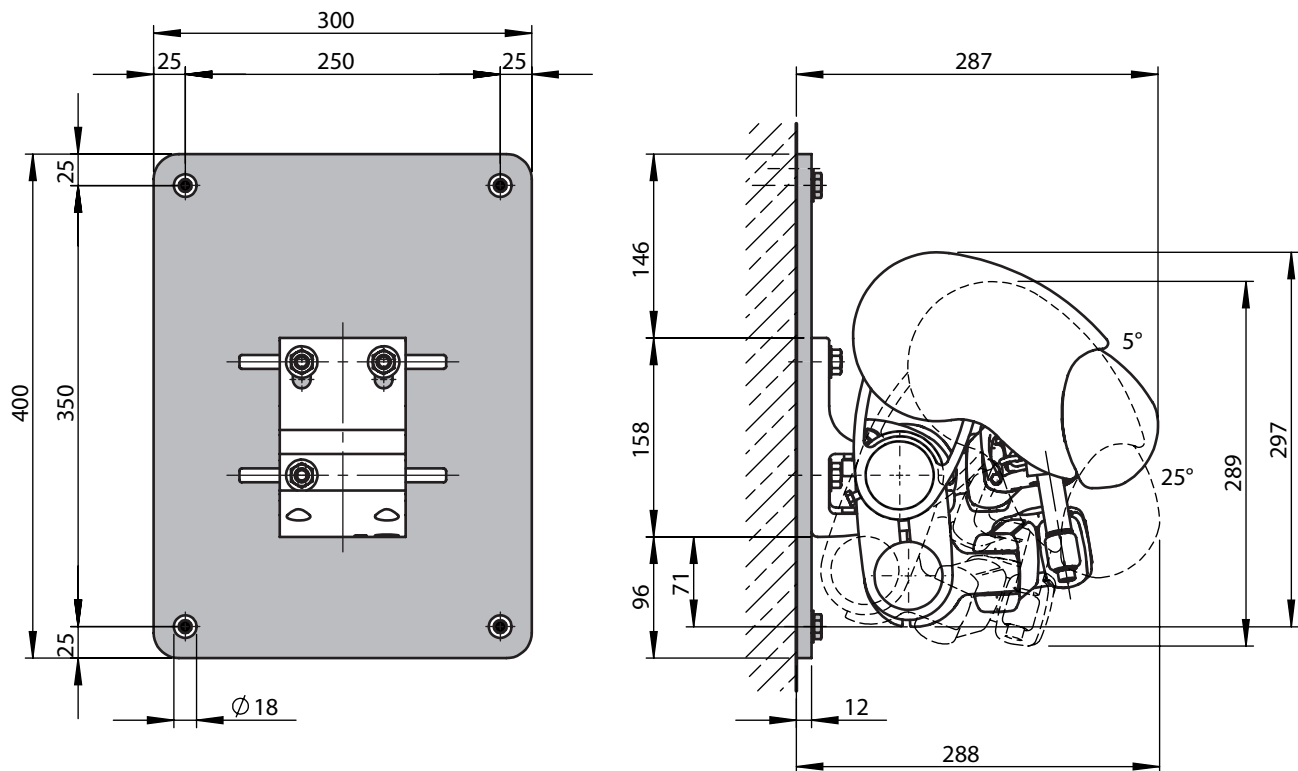
Face fixture with shadeplus and spreader plate B

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	127	140	---	---	---	---	---	---	132	146	---	---	---	---	---	---
200	191	211	232	---	---	---	---	---	199	220	242	---	---	---	---	---
250	---	309	338	367	396	---	---	---	---	322	352	382	412	---	---	---
300	---	---	446	485	523	601	---	---	---	---	465	505	546	626	---	---
350	---	---	---	618	667	767	866	---	---	---	---	644	696	800	903	---
400	---	---	---	---	918	1062	1205	1349	---	---	---	---	957	1107	1257	1406
HT BHT	2 100 mm								2 100 mm							
BP	2								2							
BM	8								8							

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
- BM = no. of fixing points



dimensions in mm

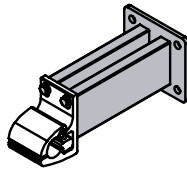
Face fixture for Shadeplus / drop valance with stand-off brackets

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

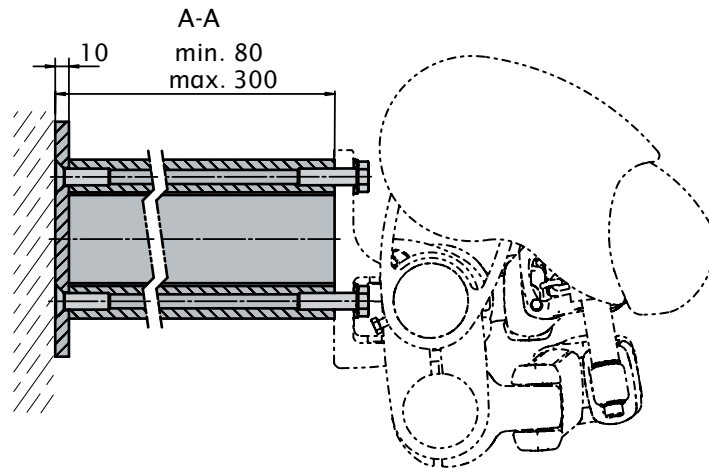
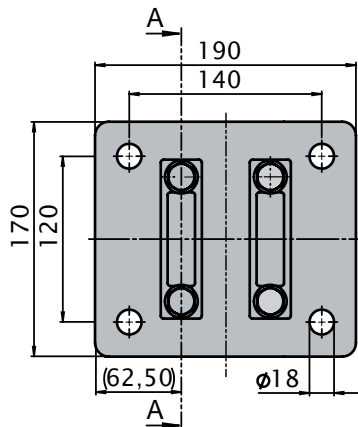
H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	412	452	---	---	---	---	---	---	463	509	---	---	---	---	---	---
200	593	653	714	---	---	---	---	---	667	735	803	---	---	---	---	---
250	---	935	1019	1103	1187	---	---	---	---	1052	1146	1241	1335	---	---	---
300	---	---	1321	1432	1544	1766	---	---	---	---	1486	1612	1737	1987	---	---
350	---	---	---	1803	1945	2228	2512	---	---	---	---	2028	2188	2507	2826	---
400	---	---	---	---	2668	3079	3491	3902	---	---	---	---	3001	3464	3927	4390
HT BHT	2 100 mm								2 100 mm							
DH 77968.	2								2							
BM	8								8							

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
- 77968. = spacer bracket for face fixture bracket 70867.



77968.



dimensions in mm

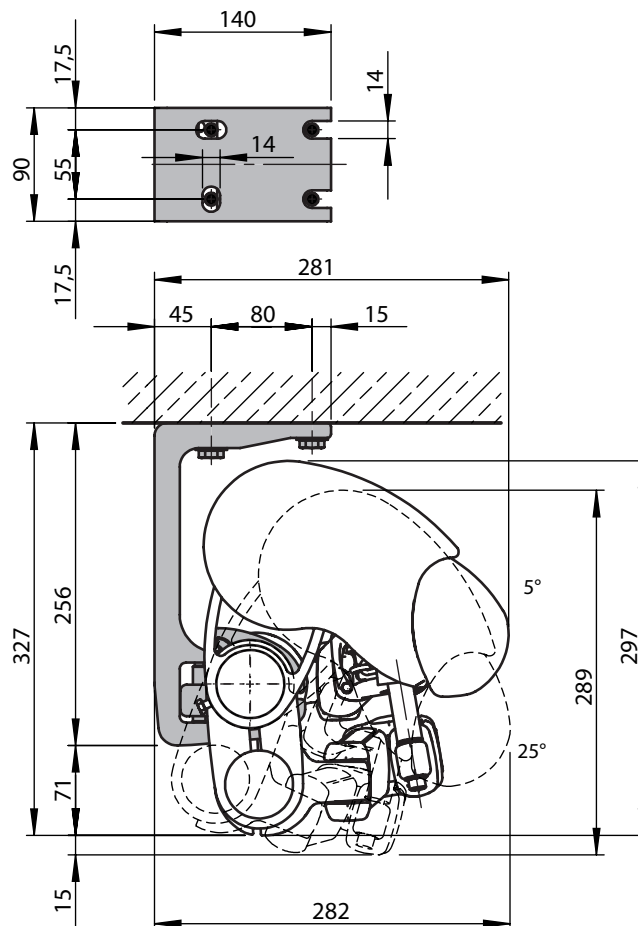
Top fixture

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
FB [N]																
150	443	490	---	---	---	---	---	---	569	628	---	---	---	---	---	---
200	652	722	792	---	---	---	---	---	843	933	1023	---	---	---	---	---
250	---	1047	1144	1241	1338	---	---	---	---	1359	1485	1610	1736	---	---	---
300	---	---	1504	1633	1763	2021	---	---	---	---	1958	2125	2293	2628	---	---
350	---	---	---	2078	2244	2576	2908	---	---	---	---	2709	2925	3356	3788	---
400	---	---	---	---	3094	3575	4056	4537	---	---	---	---	4041	4668	5295	5923
HT BHT	2 90 mm								2 90 mm							
BM	8								8							

The pull-out force refers to the horizontal centre to centre measurement between the fixture points of 80 mm.

- 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

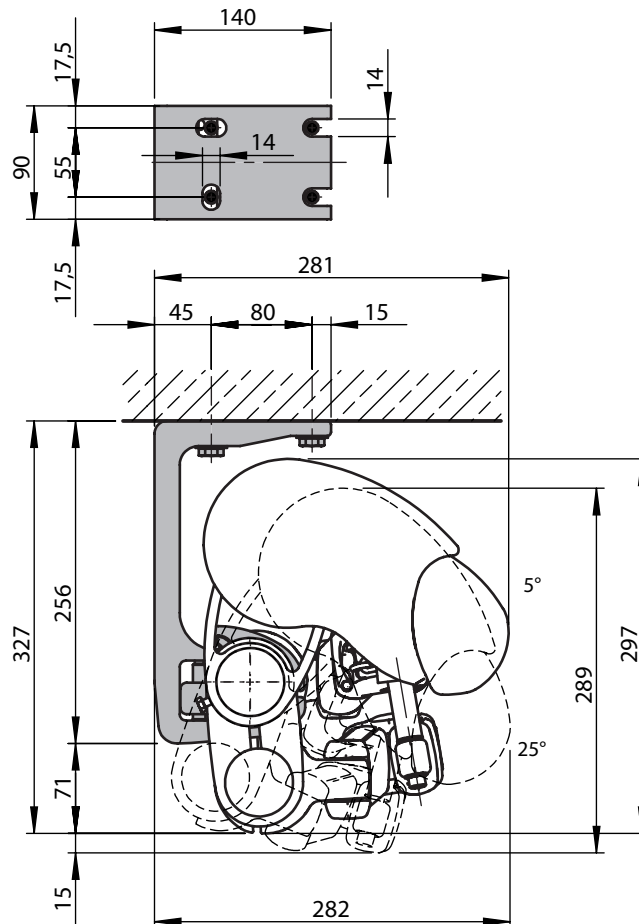
Top fixture with shadeplus

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

H [cm]	compression-proof substrate								non compression-proof substrate							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	FB [N]								FB [N]							
150	476	529	---	---	---	---	---	---	613	679	---	---	---	---	---	---
200	697	774	851	---	---	---	---	---	902	1001	1100	---	---	---	---	---
250	---	1111	1217	1323	1429	---	---	---	---	1444	1581	1719	1856	---	---	---
300	---	---	1592	1732	1872	2151	---	---	---	---	2073	2255	2436	2799	---	---
350	---	---	---	2193	2371	2728	3084	---	---	---	---	2860	3092	3556	4020	---
400	---	---	---	---	3240	3749	4258	4754	---	---	---	---	4232	4896	5560	6212
HT BHT	2 90 mm								2 90 mm							
BM	8								8							

The pull-out force refers to the horizontal centre to centre measurement between the fixture points of 80 mm.

- 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

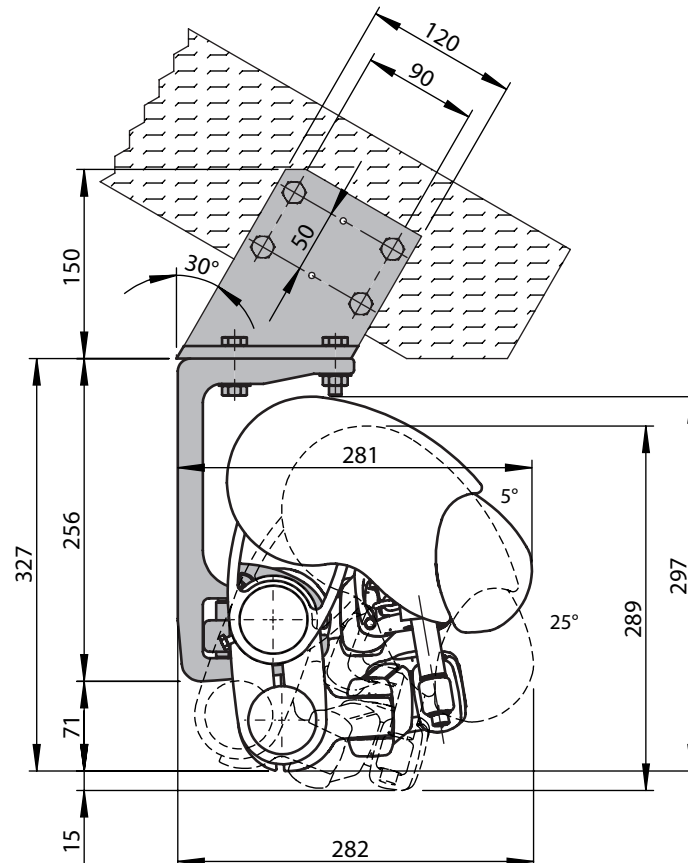
Eaves fixture

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

H [cm]	Torque								Shear force							
	M [cm]								M [cm]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	Md [Nm]								FS [N]							
150	85	93	---	---	---	---	---	---	1020	1127	---	---	---	---	---	---
200	129	142	155	---	---	---	---	---	1508	1669	1830	---	---	---	---	---
250	---	210	229	248	267	---	---	---	---	2426	2651	2876	3101	---	---	---
300	---	---	305	331	356	408	---	---	---	---	3492	3791	4091	4690	---	---
350	---	---	---	424	458	525	592	---	---	---	---	4829	5214	5984	6754	---
400	---	---	---	---	636	734	833	931	---	---	---	---	7198	8316	9434	10552
HT	2								2							
BM	8								8							

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

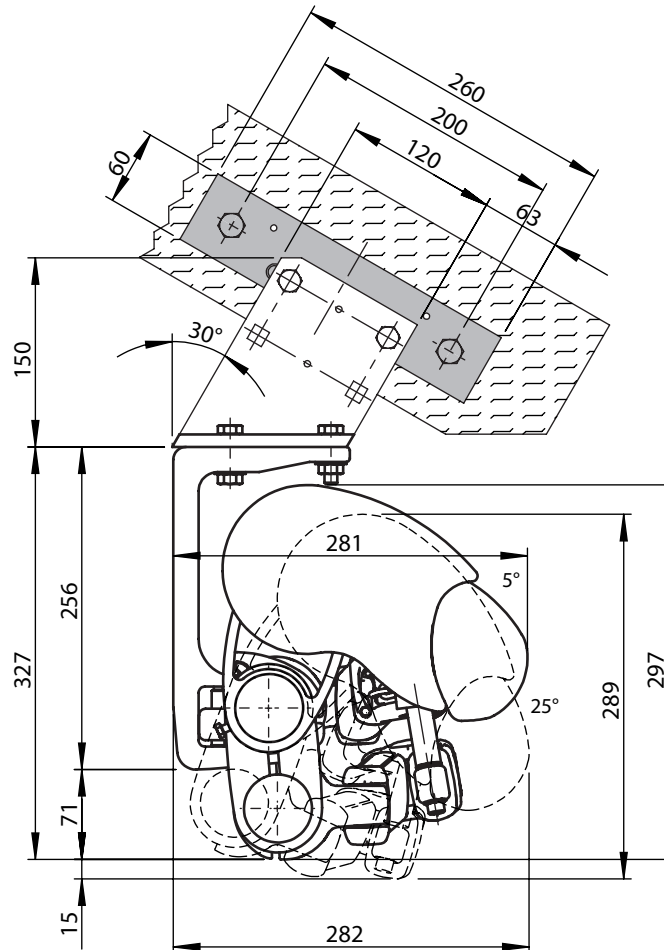
Eaves fixture with additional plate

Torque [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]							
	160	185	210	235	260	310	360	410	160	185	210	235	260	310	360	410
	Md [Nm]								FS [N]							
150	85	93	---	---	---	---	---	---	503	558	---	---	---	---	---	---
200	129	142	155	---	---	---	---	---	723	802	881	---	---	---	---	---
250	---	210	229	248	267	---	---	---	---	1143	1251	1359	1467	---	---	---
300	---	---	305	331	356	408	---	---	---	---	1629	1771	1912	2196	---	---
350	---	---	---	424	458	525	592	---	---	---	---	2238	2418	2778	3138	---
400	---	---	---	---	636	734	833	931	---	---	---	---	3311	3827	4344	4861
HT	2								2							
BM	4								4							

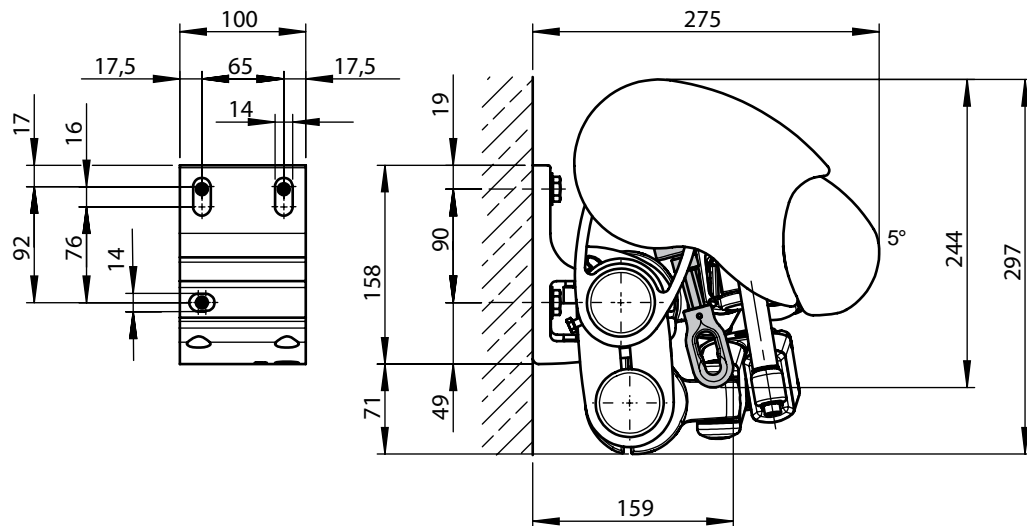
By using the additional flat fixture plate, the shear force is reduced in comparison with conventional eaves fixture.

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



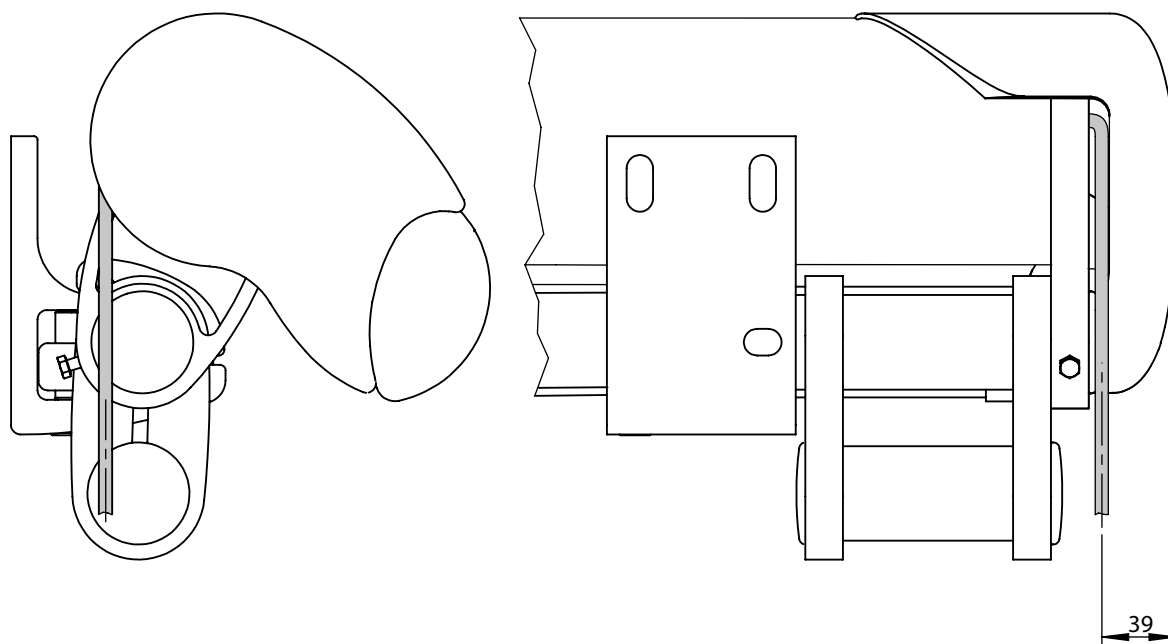
dimensions in mm

Face fixture with manual operation



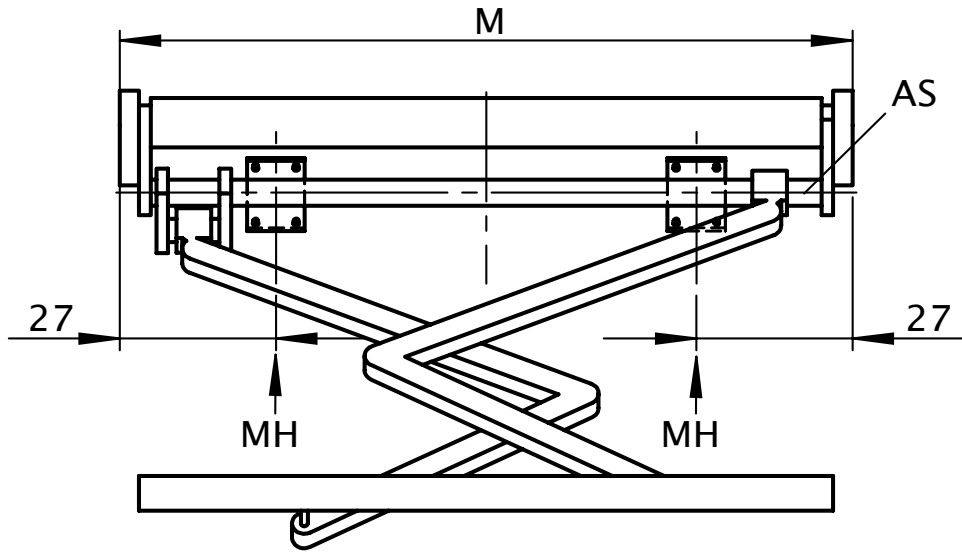
dimensions in mm

Cable exit position on motor-driven units



dimensions in mm

Bracket range for awnings with 2 folding arms



dimensions in cm

- M = overall awning width
- MH = bracket centre
- AS = operation side (opposite the tiered folding arm)

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

