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**Единый адрес:** [mxr@nt-rt.ru](mailto:mxr@nt-rt.ru) **Веб-сайт:** [www.markilux.nt-rt.ru](http://www.markilux.nt-rt.ru)

**Открытые маркизы 1300 markilux**

safe · timeless · beautiful



## *markilux 1300*

The awning which sets exacting standards



# markilux 1300

## The awning which sets exacting standards

- design features**
- the markilux 1300: The classic shape of an open patio awning
  - for long-lasting attractiveness the awning has been powder coated.
  - awning covers made from acrylic yarns or sunsilk SNC with self-cleaning effect.
  - The panel joints of the awning cover are ultrasonically bonded - for an improved appearance without bothersome stitching.
  - In the case of manual operation with a markilux stainless steel winding handle - quality to get to grips with

- technical highlights**
- The reliable awning with a large number of configuration options
  - The extremely sturdy awning construction makes it possible to shade even very large areas safely.
  - Attractive front profile made of extruded aluminium with integrated gutter and water drainage spouts.
  - The 85 mm roller tube ensures the highest rigidity and the best possible cover winding characteristics even at the largest widths.
  - Folding arms with perfected power transmittance by means of a round, steel-link chain.

- optional accessories**
- In the case of manual operation ease of use is ensured with the spring-assisted gearbox.
  - Hard-wired motor drive (optionally with automatic controls) for simple, relaxed operation.
  - Radio-controlled motor with handheld transmitter for ease of operation - and ergonomically crafted for ease of use.
  - The shadeplus creates an additional room on the patio. Protection from sun, wind and inquisitive glances in one.
  - Awning available in non-standard RAL colours

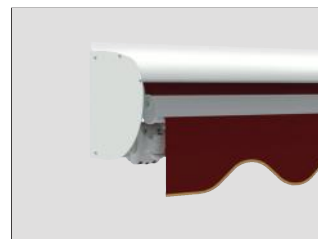
· Folding arms with drop-forged, aluminium joints and Teflon-coated bronze bushes to ensure high stability and longevity · The greater upper to lower arm length ratio gives high lateral stability of the awning · Fixture brackets are made of extruded aluminium · At larger widths one or more rolltex bearings support the roller tube · Awnings more than 700 cm wide can be supplied as coupled units. · An easily installed sun and wind sensor provides intelligent control options and necessary protection · A pitch adjustment gear - the easy way to alter the pitch, simply use a winding handle · A coverboard made of extruded aluminium and fitted with a rubber sealing strip is available



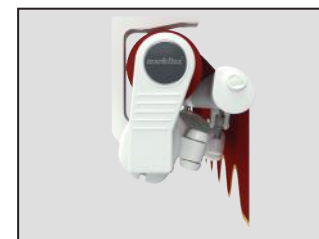
folding arm with round, steel-link chain



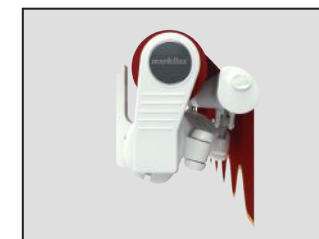
simple pitch adjustment



with coverboard (optional)



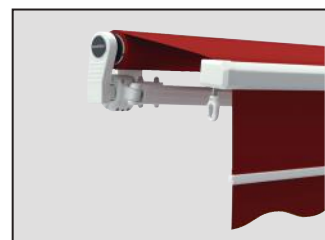
side view with awning closed, top fixture



side view with awning closed, face fixture



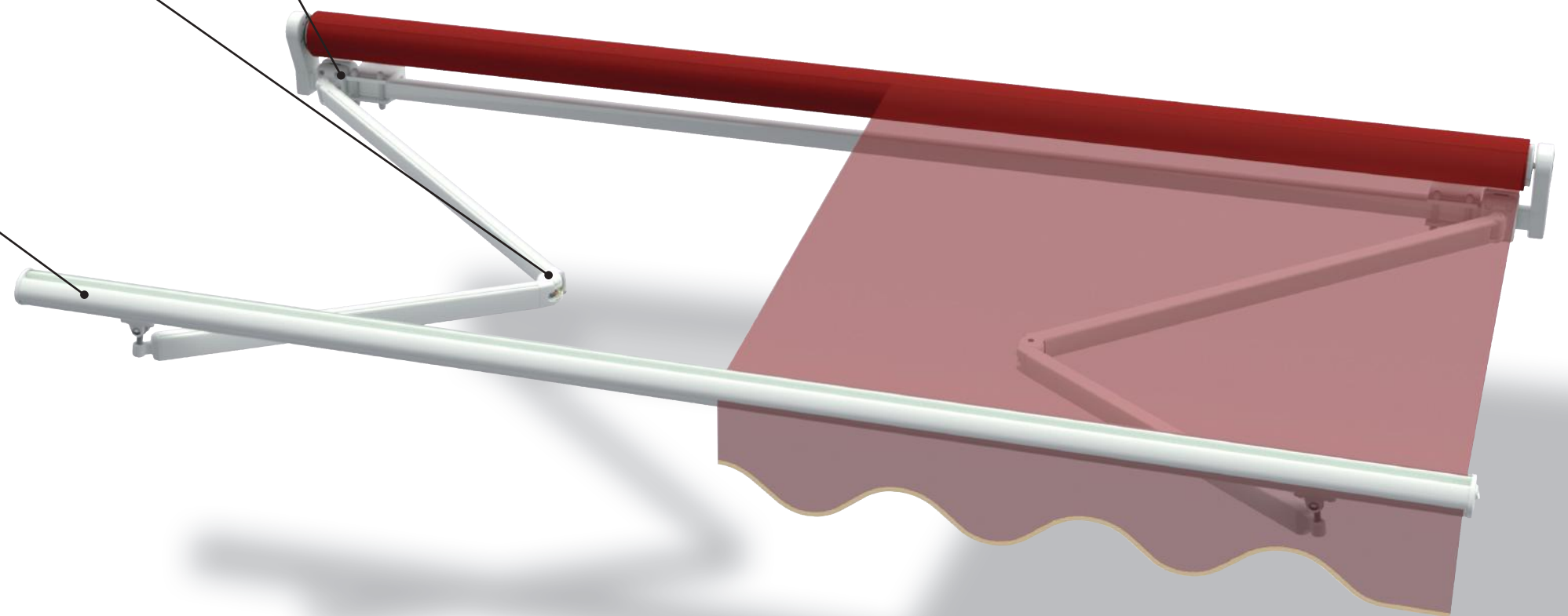
side view at a pitch of 55°



during extension with shadeplus (optional)



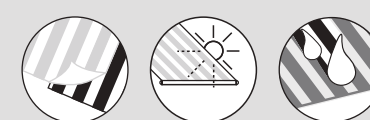
during extension with shadeplus (optional)



Standard RAL colours:



standard:



optional accessories:



safe · timeless · beautiful



## ***markilux 1300***

The awning which sets exacting standards

**markilux**

# dimensions and configuration options

extension	Overall blind width										minimum width motor <sup>10)</sup>		minimum width manual operation <sup>10)</sup>	
	250 167 - 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	700 <sup>20)</sup> 651 - 700	Standard	Bespoke arms	Standard	Bespoke arms
150											181	167	184	170
200	28)										231	218	234	221
250		28)									281	268	284	271
300			28)								331	318	334	321
350				28)					21)		381	368	384	371
400 <sup>17) 19)</sup>					28)				18) 21)		431	418	434	421

dimensions in cm

10) the dimensions are only valid for fixture without spreader plates (2 folding arms).


17) a shadeplus is not available


18) minimum width 635 cm.

19) awnings with 4 m extension are only available with motor (extra charge).

21) awnings with 3 arms are only available with motor (extra charge).

28) Please note the minimum widths!

 = available, 2 folding arms

 = available, 3 folding arms, 1 Rolltex bearing

**Definition of extension:** The extension is measured with the awning extended at a pitch of approx. 15° from the wall over the cover to the leading edge of the front profile. The extension tolerance is - 40mm / + 40mm

In the case of manual operation, assume approx. 16 winding handle revolutions per metre of awning extension.

Extension when using a motor takes approximately 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. Because of tolerances in fabric thicknesses the drop may be shorter by up to 5 cm.

A shadeplus with gear is available in drops of 150 cm and 190 cm.

A shadeplus is not possible with PVC covers.

A shadeplus with motor is not possible.

**Coupled folding-arm awnings are available up to a max. of 3 single units side by side, however only with 6 folding-arms at most and only motorised.**

Optionally available with **junction roller**. Pattern repeat mismatches are possible in the case of junction roller covers, except when the extension is the maximum for the width of each awning. (see also arm separation table)

**continuous awning covers only on request.**

If coupled awnings are to be fitted into a **recess** or **reveal** the overall width of the coupled blind or awning must be at least 6 cm less than the width of the opening to allow the blind/awning to be coupled. Make a special note if the awning is to be fitted into a recess/reveal and note the reveal width separately.

configuration options	operation type	
	manual operation with st. steel winding handle	●
	Servo-assisted operation	○
	radio-controlled motor	○
	motor	○
	Shadeplus	
	manual operation	○
	radio-controlled motor	-
	motor	-
	Lighting	
Halogen Spotlights	-	
Fluorescent lighting	-	
covers		
acrylic 34 (fabric series 341xx-347xx)	●	
sunsilk SNC (fabric series 324xx/329xx)	●	
signature (fabric series 369xx)	●	
transilk FR (fabric series 319xx)	-	
transolair (fabric series 339xx)	-	
widely woven acrylic (fabric series 349xx)	○ <sup>1)</sup>	
perla FR (fabric series 374xx/379xx)	○	
Soltis 92	○ <sup>2)</sup>	
PVC fabric	○ <sup>2)</sup>	
miscellaneous		
Coverboard	○	
Sytem coverboard	-	
wall sealing profile	-	
Pitch adjustment gear	○	
Insertable side blind	○	
sun and wind sensor	○	
Valance	● <sup>2)</sup>	
Infrared heater	○	
Vibrabox / Sunis sun sensor	○	
Coupled units (please refer to fixture)		
coupled unit 2 fields	○	
coupled unit 3 fields	○	
junction roller	○	
one-piece cover (on request)	○	

● = fitted as standard






○ = optional accessory

- = not available

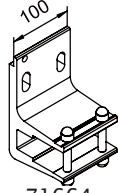
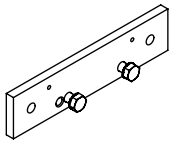
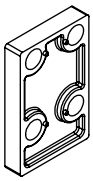
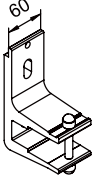
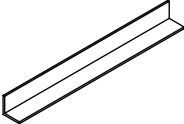
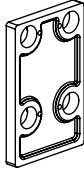
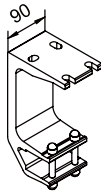
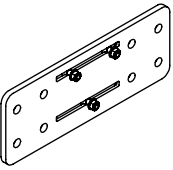

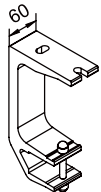
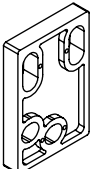
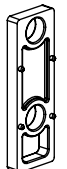
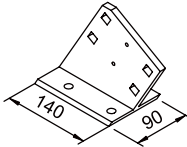

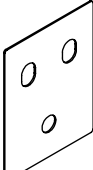
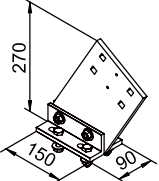
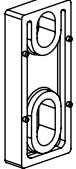
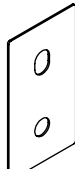
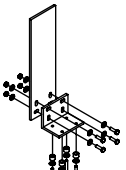
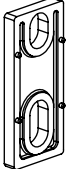
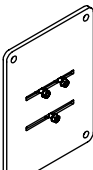
○<sup>1)</sup> = widely woven fabric up to a max. extension of 300 cm; not possible in those dimensions that require a rolltex bearing

●<sup>2)</sup> = valance shape 2 (please refer to the section "Fabric Collection")

○<sup>2)</sup> = PVC/Soltis 92 covers available up to a max. width of 550 cm and a max. extension of 250 cm.

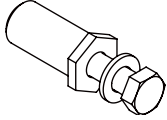
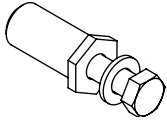
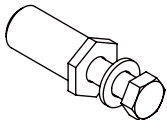
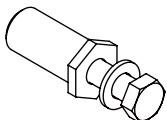
frame colours		
	RAL 9016 traffic white	●
	RAL 8019 grey brown	●
	RAL 9006 metallic aluminium	●
	RAL 1015 light ivory	●
	non-standard RAL colour	○

**fixings and accessories**

 <p>Face fixture bracket assembly 100mm 71664.</p>	 <p>Additional eaves fixture plate 60x260x12mm 75383.</p>	 <p>Spacer plate for top fixture 90x140x20mm N.B! stack to a max. of 200 mm 716311</p>
 <p>Face fixture bracket assembly 60mm 71665.</p>	 <p>Angled profile for eaves fixtures 100x100mm available by the metre, undrilled 79380.</p>	 <p>Spacer plate for top fixture 90x140x12mm 716411</p>
 <p>Top fixture bracket assembly 90mm 71666.</p>	 <p>Spreader plate B (incl. bracket bolts) 160x430x12mm 75326.</p>	 <p>Spacer plate for top fixture 45x140x20mm N.B! stack to a max. of 200 mm 716261</p>
 <p>Top fixture bracket assembly 60mm 71667.</p>	 <p>Spacer plate for face fixture 100x150x20mm N.B! stack to a max. of 200 mm 718231</p>	 <p>Spacer plate for top fixture 45x140x12mm 716371</p>
 <p>Eaves fixture bracket 140mm 71612.</p>	 <p>Spacer plate for face fixture 100x150x12mm 718241</p>	 <p>Cover plate for external insulation 140x180x2mm 71835.</p>
 <p>Eaves fixture bracket assembly 270mm 71659.</p>	 <p>Spacer plate for face fixture 60x140x12mm N.B! stack to a max. of 200 mm 716321</p>	 <p>Cover plate for external insulation 100x180x2mm 71836.</p>
 <p>Flat plate and angled bracket for eaves fixture machine finish 716620</p>	 <p>Spacer plate for face fixture 60x140x20mm 71642.</p>	 <p>Spreader plate B (incl. bracket bolts) 300x400x12mm 75325.</p>

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

## fixings and accessories

	<p>Reduction assembly M 16 - M 12 / SW 27</p>
<p>753891</p>	<p>50mm length (please refer to "Technical Information")</p>
	<p>Reduction assembly M 10 - M 10 / SW 27</p>
<p>754901</p>	<p>50mm length (please refer to "Technical Information")</p>
	<p>Reduction assembly M 12 - M 10 / SW 27</p>
<p>754911</p>	<p>50mm length (please refer to "Technical Information")</p>
	<p>Reduction assembly M 16 - M 10 / SW 27</p>
<p>754921</p>	<p>50mm length (please refer to "Technical Information")</p>

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



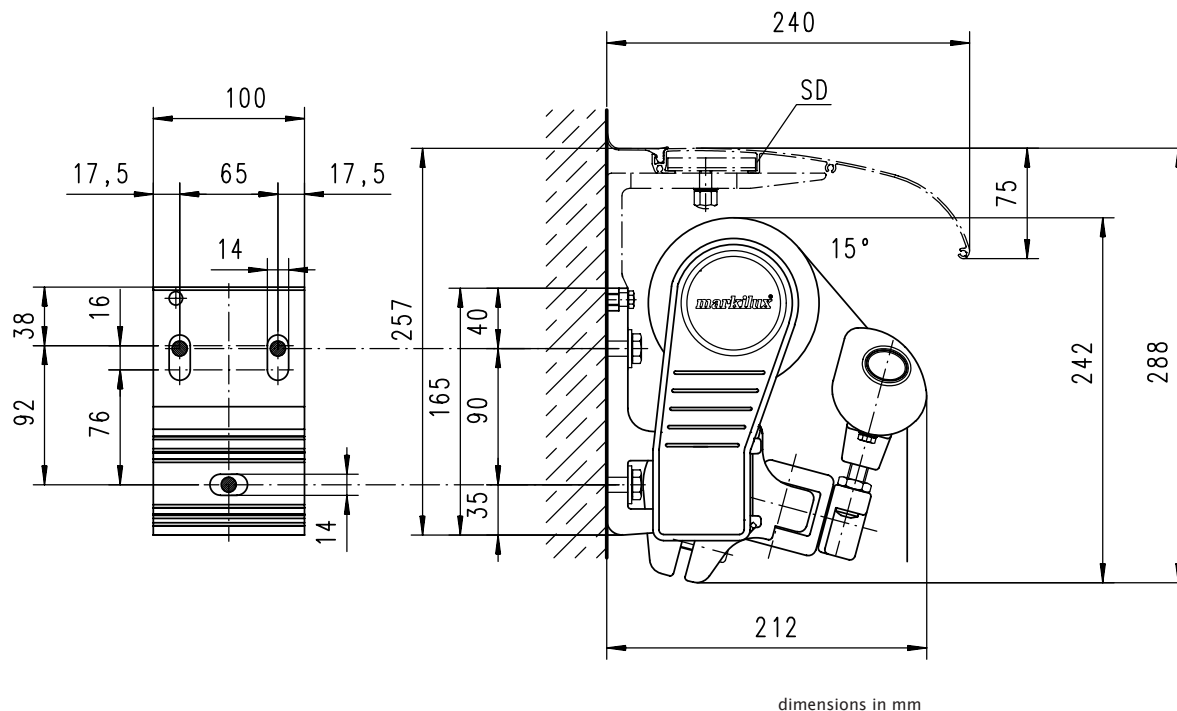
## Face fixture

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

compression-proof substrate											non compression-proof substrate																			
H [cm]	M [cm]										M [cm]																			
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700										
FB [N]											FB [N]																			
150	439	506	572	639	705	772	838	905	971	845	508	585	661	738	815	892	969	1045	1122	976										
200	701	808	915	1023	1130	1237	1344	1452	1559	1397	810	934	1058	1182	1306	1430	1554	1677	1801	1614										
250	---	1202	1359	1517	1674	1831	1989	2146	2637	2421	---	1389	1571	1752	1934	2116	2298	2480	3047	2797										
300	---	---	1860	2077	2293	2510	3132	3386	3641	3388	---	---	2149	2400	2650	2901	3619	3913	4207	3915										
350	---	---	---	2748	3033	3818	4155	4492	4260	4574	---	---	---	3175	3505	4412	4801	5191	4922	5285										
400	---	---	---	---	4431	4862	5293	5724	5410	5769	---	---	---	---	5121	5619	6116	6614	6251	6666										
HT   BHT	2   100 mm					2   100 mm					3   100 mm					2   100 mm					2   100 mm					3   100 mm				
	---					2   60 mm					2   60 mm					---					2   60 mm					2   60 mm				
BM	6					10					13					6					10					13				

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. If the awning is fitted with two brackets per folding arm the pull-out force may be halved. Place the brackets directly left and right of the arm bearer.

- M = overall awning width
- H = extension
- FB = pull-out force per fixing point
- HT | BHT = bracket quantity | width
- BM = no. of fixing points
- SD = coverboard



dimensions in mm

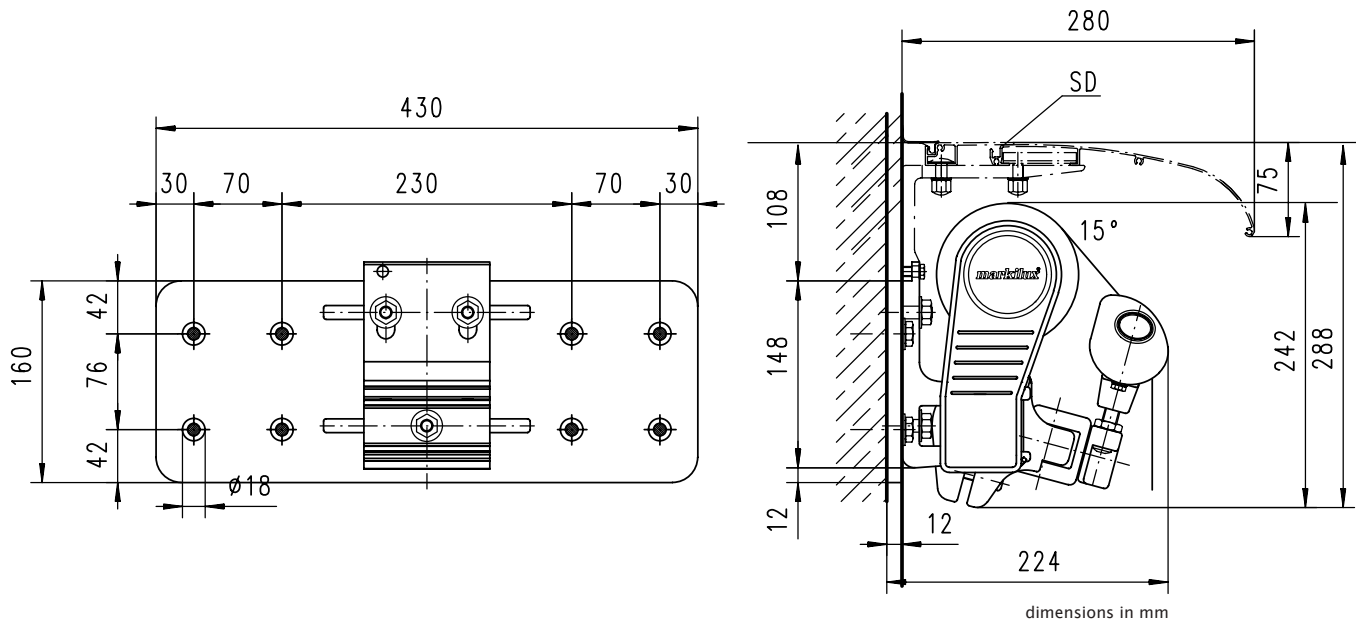
# Face fixture with spreader plate A

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

compression-proof substrate											non compression-proof substrate																			
H [cm]	M [cm]										M [cm]																			
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700										
FB [N]											FB [N]																			
150	214	247	279	312	344	376	409	441	474	390	305	351	397	443	489	535	581	627	673	554										
200	341	393	445	497	549	602	654	706	758	643	484	559	633	707	781	855	929	1003	1077	914										
250	---	583	660	736	813	889	965	1042	1280	1117	---	829	938	1046	1155	1263	1372	1480	1819	1588										
300	---	---	902	1007	1112	1217	1519	1642	1765	1564	---	---	1282	1431	1580	1729	2158	2333	2509	2223										
350	---	---	---	1331	1469	1850	2013	2176	1956	2107	---	---	---	1892	2088	2629	2861	3093	2779	2995										
400	---	---	---	---	2145	2354	2562	2771	2485	2659	---	---	---	---	3049	3345	3641	3938	3531	3778										
HT   BHT	2   100					2   100					3   100 mm					2   100 mm					3   100 mm									
	---					2   60 mm					2   60 mm					---					2   60 mm					2   60 mm				
BP	2					2					3					2					2					3				
DP	---					2					2					---					2					2				
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 = extension
- 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
- SD = coverboard



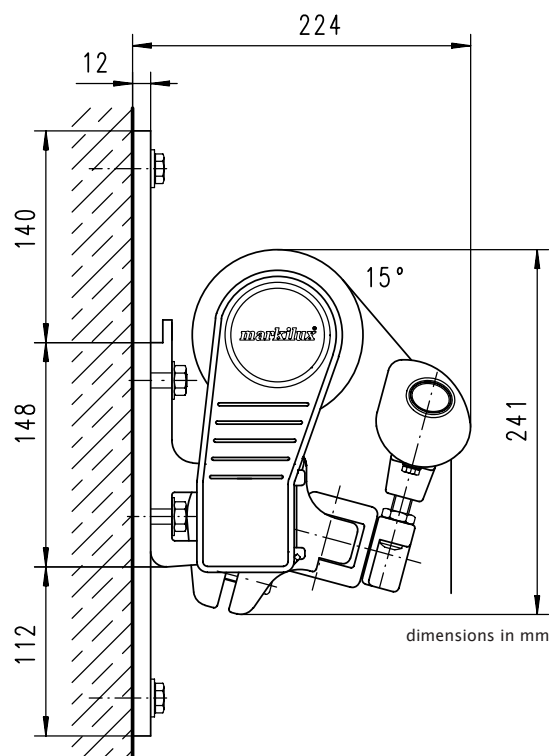
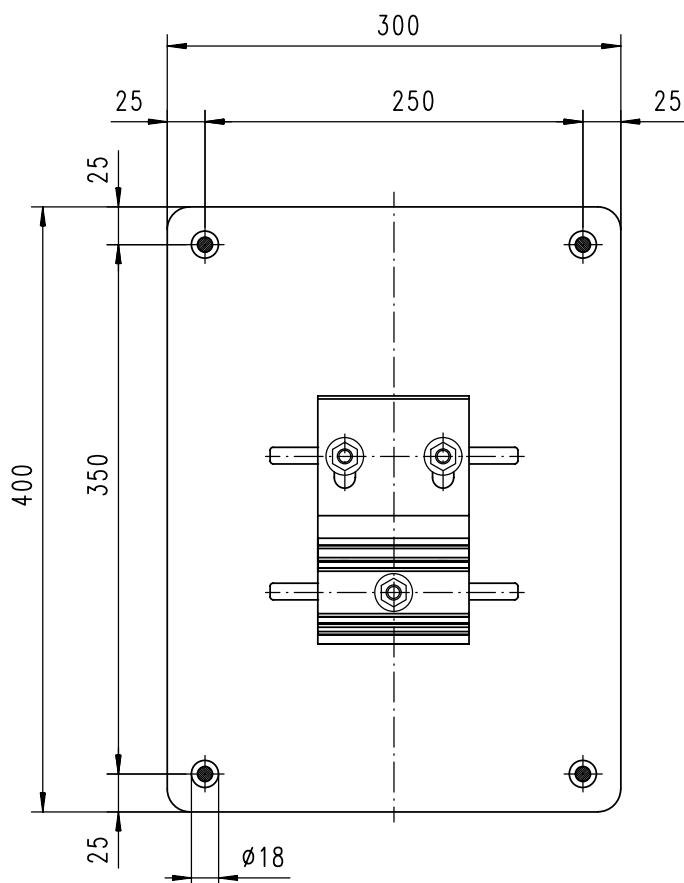
# Face fixture with spreader plate B

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

compression-proof substrate											non compression-proof substrate										
H [cm]	M [cm]										M [cm]										
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700	
FB [N]											FB [N]										
150	127	146	165	184	204	223	242	261	280	231	132	152	172	192	212	232	252	272	292	240	
200	202	233	263	294	325	356	387	418	449	381	210	243	275	307	339	371	403	436	468	397	
250	---	345	390	436	481	526	571	617	758	661	---	360	407	454	502	549	596	643	790	690	
300	---	---	534	596	658	720	899	972	1045	926	---	---	557	621	686	751	937	1013	1090	965	
350	---	---	---	788	870	1095	1191	1288	1157	1247	---	---	---	821	907	1142	1242	1343	1207	1300	
400	---	---	---	---	1270	1393	1516	1640	1470	1573	---	---	---	---	1324	1453	1581	1710	1533	1641	
HT   BHT	2   100 mm			2   100 mm			3   100 mm			2   100 mm			2   100 mm			3   100 mm					
	---			2   60 mm			2   60 mm			---			2   60 mm			2   60 mm					
BP	2			2			3			2			2			3					
DP	---			2			2			---			2			2					
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 = extension
- 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

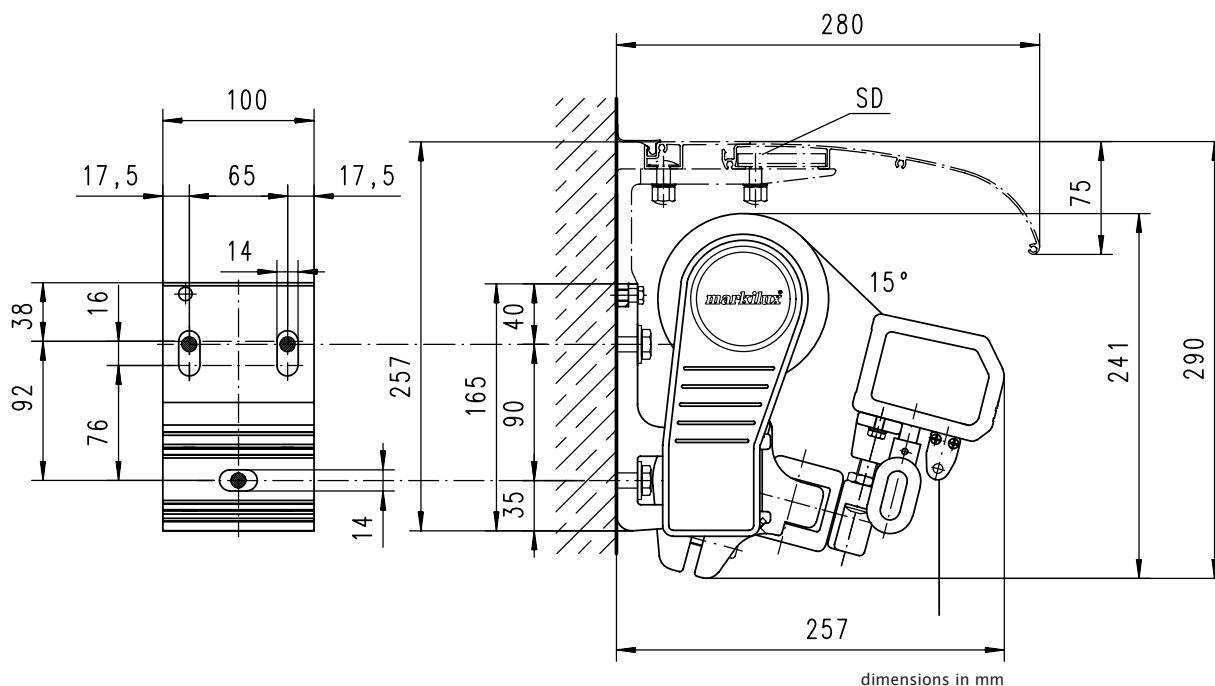
# Face fixture with shadeplus

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

H [cm]	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
150	FB [N]										FB [N]									
150	510	591	671	752	833	913	994	1074	1155	997	589	683	776	869	962	1055	1148	1242	1335	1153
200	795	921	1047	1174	1300	1426	1552	1678	1804	1607	919	1065	1210	1356	1502	1648	1793	1939	2085	1857
250	---	1343	1524	1705	1886	2067	2248	2429	2943	2690	---	1552	1761	1970	2180	2389	2598	2807	3401	3109
300	---	---	2058	2303	2548	2793	3443	3726	4009	3716	---	---	2378	2661	2944	3228	3978	4305	4632	4294
350	---	---	---	3012	3330	4148	4518	4888	4618	4963	---	---	---	3480	3848	4794	5221	5649	5337	5735
HT   BHT	2   100 mm					2   100 mm			3   100 mm		2   100 mm					2   100 mm			3   100 mm	
BM	---					2   60 mm			2   60 mm		---					2   60 mm			2   60 mm	
BM	6					10			13		6					10			13	

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. If the awning is fitted with two brackets per folding arm the pull-out force may be halved. Place the brackets directly left and right of the arm bearer.

M = overall awning width  
 H = extension  
 FB = pull-out force per fixing point  
 HT | BHT = bracket quantity | width  
 BM = no. of fixing points  
 SD = coverboard



dimensions in mm

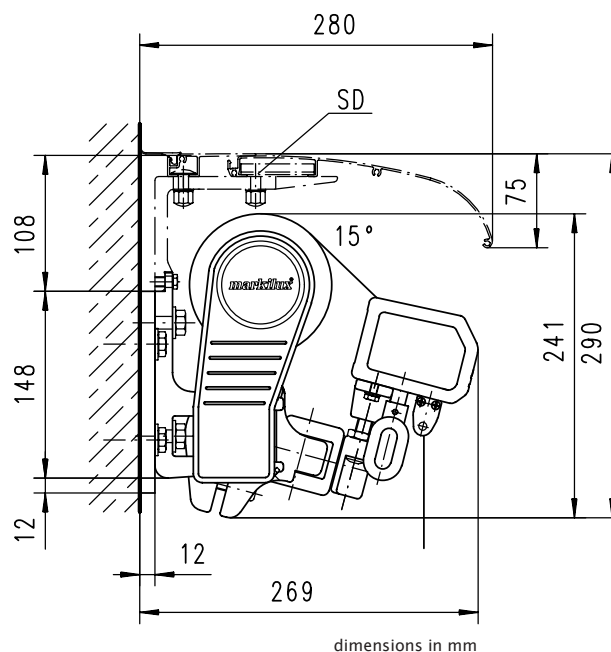
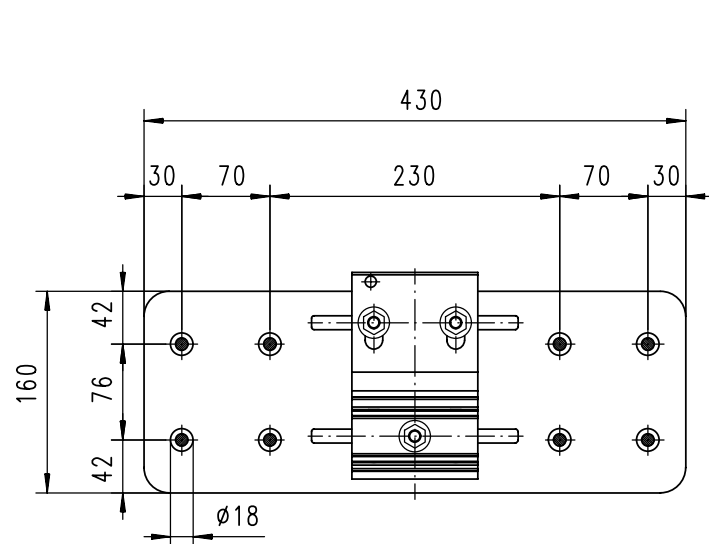
# Face fixture with shadeplus and spreader plate A

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

compression-proof substrate											non compression-proof substrate										
H [cm]	M [cm]										M [cm]										
	250	300	350	400	450	500	550	600	650	700	250	300	350	400	450	500	550	600	650	700	
FB [N]											FB [N]										
150	249	288	327	366	406	445	484	524	563	464	353	409	465	521	577	632	688	744	800	659	
200	387	448	509	570	632	693	754	816	877	745	549	636	724	811	898	985	1072	1159	1246	1059	
250	---	652	740	828	915	1003	1091	1179	1248	1248	---	926	1051	1176	1301	1425	1550	1675	2030	1773	
300	---	---	998	1116	1235	1354	1669	1806	1943	1723	---	---	1418	1586	1755	1924	2372	2567	2761	2448	
350	---	---	---	1459	1613	2009	2188	2368	2129	2295	---	---	---	2073	2292	2855	3110	3365	3026	3262	
HT   BHT	2   100 mm			2   100 mm			3   100 mm			2   100 mm			2   100 mm			3   100 mm					
	---			2   60 mm			2   60 mm			---			2   60 mm			2   60 mm					
BP	2			2			3			2			2			3					
DP	---			2			2			---			2			2					
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 = extension
- 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
- SD = coverboard



dimensions in mm

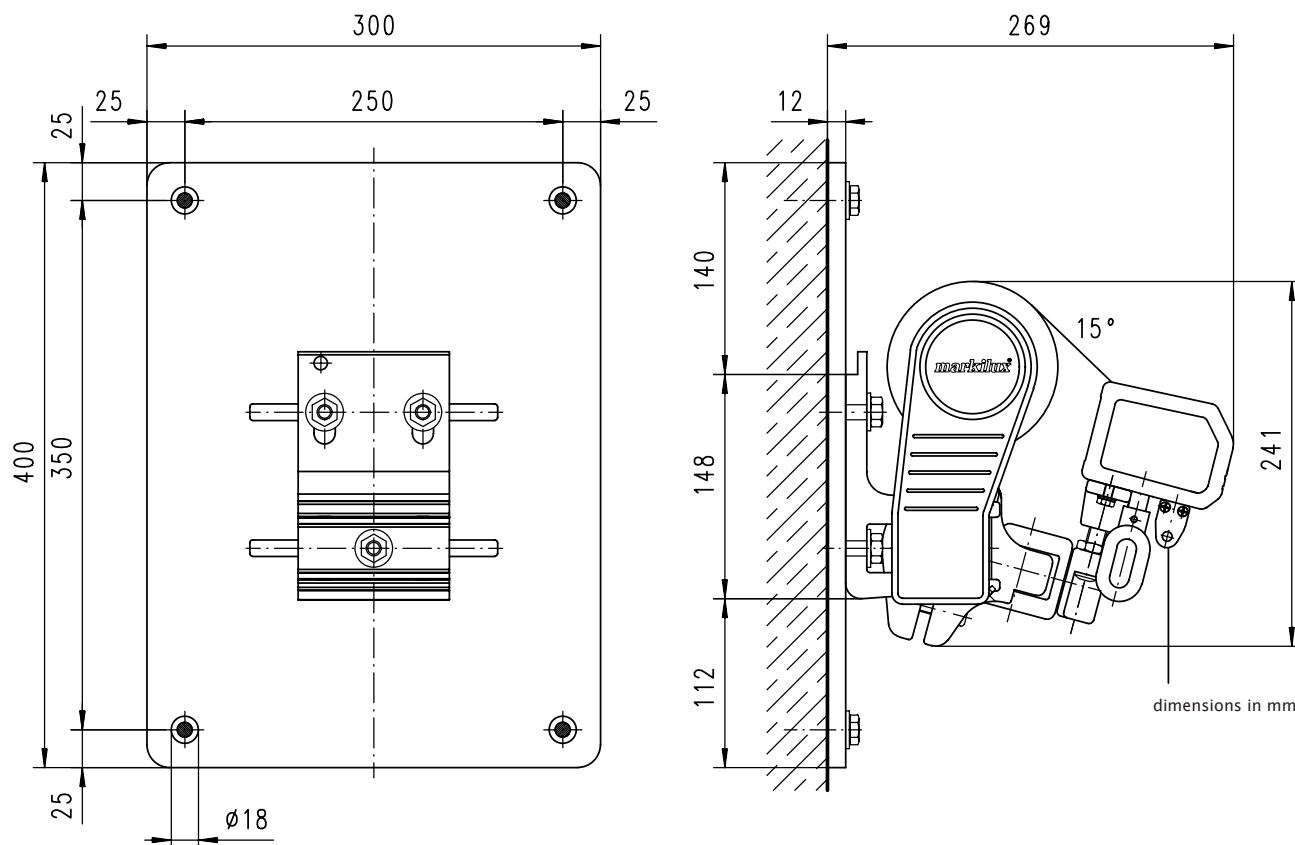
# Face fixture with shadeplus and spreader plate B

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

H [cm]	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
150	FB [N]										FB [N]									
150	147	170	194	217	240	263	287	310	333	274	153	178	202	226	250	275	299	323	347	286
200	229	265	301	338	374	410	446	483	519	441	239	276	314	352	390	428	466	503	541	460
250	---	386	438	490	542	594	646	698	845	738	---	402	457	511	565	619	673	727	882	770
300	---	---	590	661	731	801	988	1069	1150	1019	---	---	616	689	762	836	1030	1115	1199	1063
350	---	---	---	863	954	1189	1295	1401	1260	1358	---	---	---	900	995	1240	1351	1461	1314	1417
HT   BHT	2   100 mm					2   100 mm			3   100 mm		2   100 mm					2   100 mm			3   100 mm	
	---					2   60 mm			2   60 mm		---					2   60 mm			2   60 mm	
BP	2					2			3		2					2			3	
DP	---					2			2		---					2			2	
BM	16					20			28		16					20			28	

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 = extension
- 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



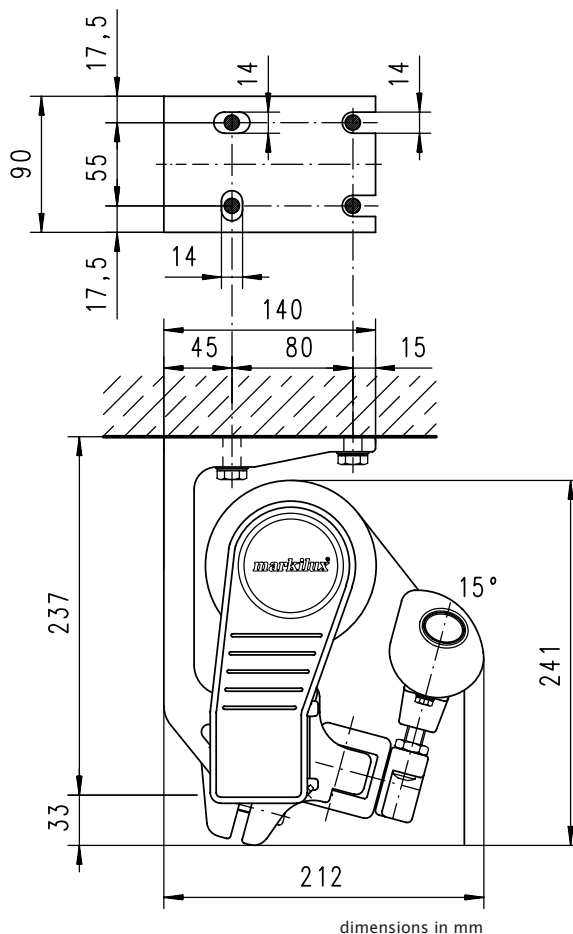
# Top fixture

Pull-out force [N=Newton] per 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]	BHT	FB [N]										FB [N]																			
150		467	541	614	688	762	835	909	983	1056	953	634	733	831	930	1029	1128	1227	1326	1425	1273										
200		707	819	930	1041	1152	1264	1375	1486	1597	1461	974	1125	1277	1429	1581	1733	1885	2037	2189	1991										
250		---	1181	1338	1496	1653	1810	1968	2125	2589	2403	---	1637	1854	2071	2289	2506	2723	2940	3590	3322										
300		---	---	1799	2011	2223	2435	3020	3266	3513	3293	---	---	2505	2800	3094	3388	4209	4552	4895	4579										
350		---	---	---	2629	2904	3639	3962	4284	4083	4385	---	---	---	3672	4056	5089	5539	5990	5700	6121										
400		---	---	---	---	4191	4600	5009	5418	5141	5485	---	---	---	---	5873	6446	7018	7591	7195	7675										
HT   BHT		2   90 mm					2   90 mm					3   90 mm					2   90 mm					3   90 mm									
		---					2   60 mm					2   60 mm					---					2   60 mm					2   60 mm				
BM		8					12					16					8					12					16				

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

M = overall awning width  
 H = extension  
 FB = pull-out force per fixing point  
 HT | BHT = bracket quantity | width  
 BM = no. of fixing points



dimensions in mm

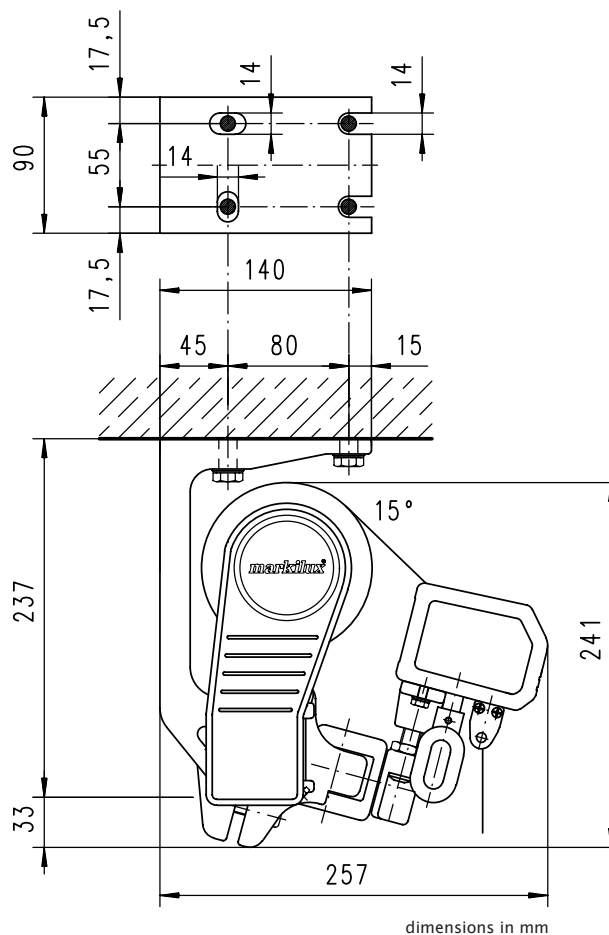
# Top fixture with shadeplus

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

H [cm]	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										
150	FB [N]										FB [N]																			
150	532	619	705	792	879	965	1052	1139	1226	1093	726	843	960	1078	1195	1312	1429	1547	1664	1472										
200	794	923	1051	1180	1309	1437	1566	1694	1823	1654	1096	1273	1449	1626	1802	1979	2155	2331	2508	2264										
250	---	1311	1490	1669	1848	2027	2206	2385	2871	2651	---	1821	2069	2317	2564	2812	3060	3308	3989	3672										
300	---	---	1981	2220	2458	2696	3306	3579	3852	3595	---	---	2763	3094	3425	3756	4613	4993	5374	5006										
350	---	---	---	2872	3178	3943	4296	4649	4413	4743	---	---	---	4015	4442	5518	6011	6505	6166	6627										
HT   BHT	2   90 mm					2   90 mm					3   90 mm					2   90 mm					3   90 mm									
	---					2   60 mm					2   60 mm					---					2   60 mm					2   60 mm				
BM	8					12					16					8					12					16				

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

M = overall awning width  
 H = extension  
 FB = pull-out force per fixing point  
 HT | BHT = bracket quantity | width  
 BM = no. of fixing points



dimensions in mm



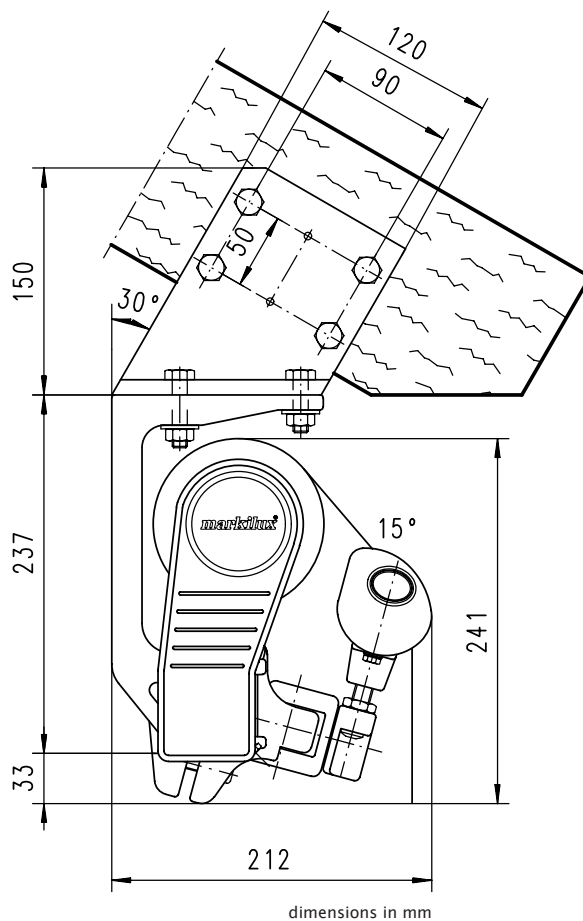
## Eaves/Roof timber fixture

Pull-out force [N=Newton] for the fixture bracket next to the arm according to EN 13561, wind resistance class 2

H [cm]	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												
	Md [Nm]										FS [N]																					
150	91	105	119	133	147	161	174	188	202	176	1140	1319	1498	1676	1855	2034	2212	2391	2569	2303												
200	146	168	190	213	235	257	280	302	324	291	1745	2018	2290	2563	2836	3109	3382	3655	3928	3579												
250	---	250	283	315	348	381	414	446	548	504	---	2928	3316	3705	4094	4482	4871	5260	6419	5945												
300	---	---	387	432	477	522	651	704	757	705	---	---	4473	4999	5525	6051	7512	8126	8739	8180												
350	---	---	---	572	631	794	864	934	886	951	---	---	---	6550	7235	9074	9878	10682	10169	10921												
400	---	---	---	---	922	1011	1101	1191	1125	1200	---	---	---	---	10467	11487	12507	13528	12828	13683												
HT	2					4					5					2					4					5						
BM	8								16				20				8								16				20			

The shear force are calculated from 2 fixture points per bracket, because depending on the roof pitch it cannot be guaranteed that 4 fixture points per bracket can be used.

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



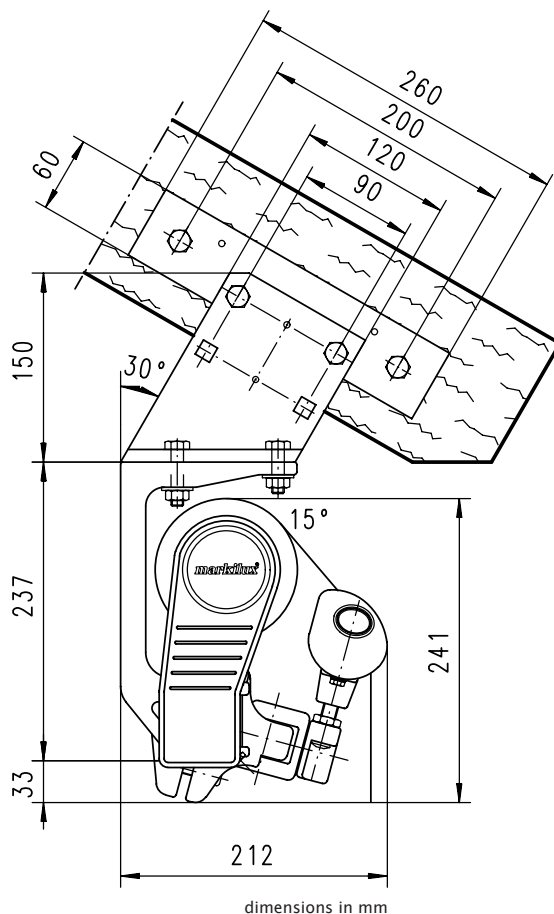
# Eaves fixture with additional plate

Pull-out force [N=Newton] for the fixture bracket next to the arm according to EN 13561, wind resistance class 2

H [cm]	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										
	Md [Nm]										FS [N]																			
150	91	105	119	133	147	161	174	188	202	176	582	676	770	864	958	1053	1147	1241	1335	1229										
200	146	168	190	213	235	257	280	302	324	291	854	990	1127	1264	1400	1537	1673	1810	1946	1803										
250	---	250	283	315	348	381	414	446	548	504	---	1400	1589	1777	1966	2155	2343	2532	3067	2868										
300	---	---	387	432	477	522	651	704	757	705	---	---	2109	2360	2610	2860	3532	3822	4111	3873										
350	---	---	---	572	631	794	864	934	886	951	---	---	---	3058	3379	4221	4596	4972	4755	5107										
400	---	---	---	---	922	1011	1101	1191	1125	1200	---	---	---	---	4834	5307	5780	6253	5951	6350										
HT	2					4					5					2					4					5				
BM	4					8					10					4					8					10				

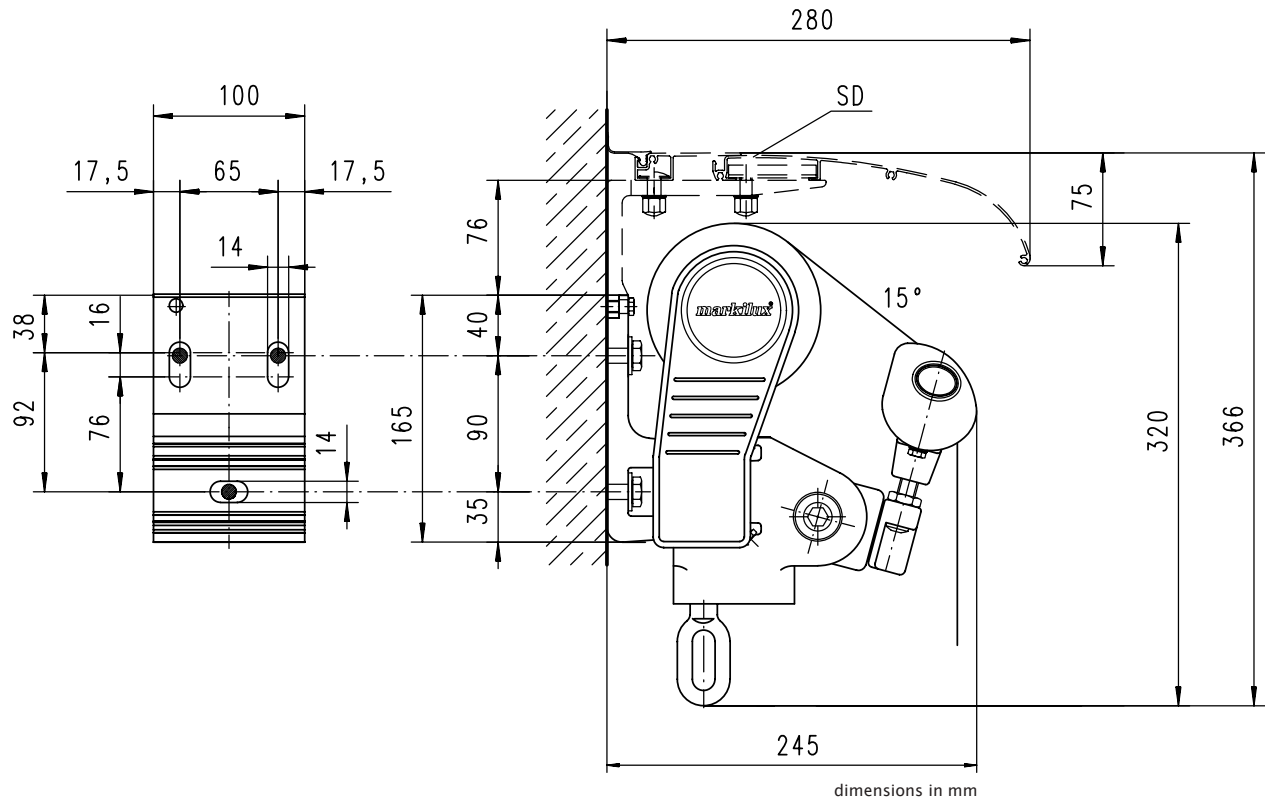
By using the additional flat plate, the shear force is reduced in comparison with conventional eaves fixture.

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

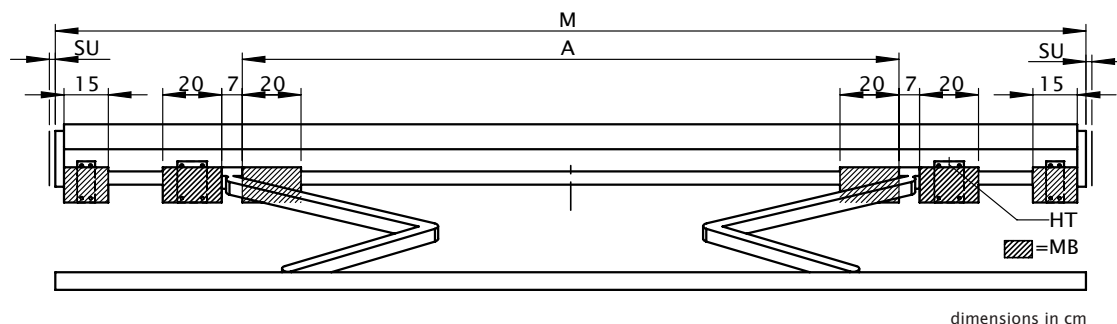


dimensions in mm

**Face fixture with PAG**



## Bracket range for awnings with 2 folding arms



dimensions in cm

M [cm]	SB ZB	250 167-250	300 251-300	350 301-350	400 351-400	450 401-450	500 451-500	550 501-550	600 551-600	650 601-650
H [cm]	A [cm]									
	150	156 ■	206	240	275	310	345	375	415	450
	200	206 ▲	206 ■	240	275	310	345	375	415	450
	250	---	256 ▲	256 ■	275	310	345	375	415	450
	300	---	---	306 ▲	306 ■	310	345	375	415	450
	350	---	---	---	356 ▲	356 ■	375	375	415	---
400	---	---	---	---	406 ▲	406 ■	406	415	---	
W	HT   BHT	60 mm	---				2			
		100 mm	2				2			
DE	HT   BHT	60 mm	---				2			
		90 mm	2				2			
DA	HT   BHT	90 mm	2				4			

dimensions in cm

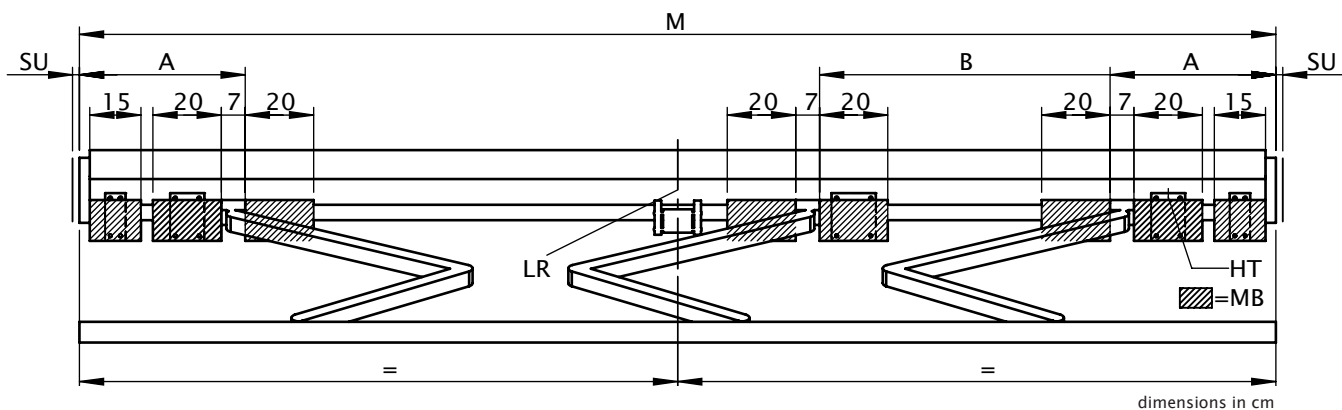
▲ = Please note the minimum widths, dimension A is only valid for standard arms! (dimension A is 13 cm smaller in the case of bespoke arms.) In the case of narrow awning widths the brackets can only be fitted inside the arms, i.e. within dimension A. A junction roller cannot be fitted to a Coupled unit.

■ = coupled units are only available with junction roller in the standard widths, in other widths on request

- M = overall awning width
- A = arm position
- HT = bracket
- MB = range for bracket fixture
- SU = coverboard overhang 2 cm
- SB = standard width
- ZB = intermediate width
- H = extension
- W = face fixture
- DE/DA = top fixture and eaves fixture
- HT | BHT = bracket quantity | width

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				KM [cm]						
		601 - 613		614 - 650		640 - 650		651 - 674			675 - 700					
		A [cm]	B [cm]	A [cm]	B [cm]	A [cm]	B [cm]	A [cm]	B [cm]	A [cm]	B [cm]					
H [cm]	150	---	---	---	---	---	---	55	240	55	240	266				
	200	---	---	---	---	---	---	55	225	55	225	341				
	250	---	---	---	---	---	---	55	210	55	210	416				
	300	---	---	---	---	---	---	55	200	55	200	491				
	350	29	▲	180	▲	30	190	---	---	50	190	55	190	566		
400	---	---	---	---	---	12	▲	204	▲	17	▲	204	▲	30	204	640
W	HT   BHT	60 mm											2			
		100 mm											3			
DE	HT   BHT	60 mm											2			
		90 mm											3			
DA		90 mm											5			

dimensions in cm

- ▲ = coupled units not available with junction roller
- = leave out the two 60 mm brackets, they cannot be fitted.

M = overall awning width  
 A = arm position  
 B = arm position  
 HT = bracket  
 MB = range for bracket fixture  
 LR = Rolltex bearing with bracket is always situated under the central seam (depends on the width)  
 SU = coverboard overhang 2 cm  
 SB = standard width  
 ZB = intermediate width  
 H = extension  
 W = face fixture  
 DE/DA = top fixture and eaves fixture  
 HT | BHT = bracket quantity | 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!

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**Единый адрес:** [mxr@nt-rt.ru](mailto:mxr@nt-rt.ru) **Веб-сайт:** [www.markilux.nt-rt.ru](http://www.markilux.nt-rt.ru)