
# markilux 970 ax @p t `qh t r Akhmcr

**Aesthetics and technology rolled into one –**
**the compact cassette awning with clean, clear lines.**
**Purist, angular, attractive**

GERMAN DESIGN AWARD NOMINEE 2017

markilux

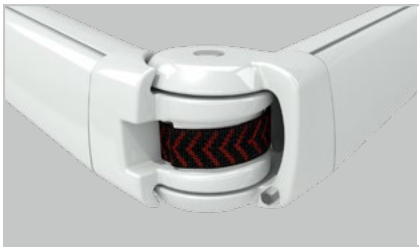
side view
top fixture

the awning pitch can be adjusted from 5° to 30°

side view
eaves fixture

the wind safety mechanism in the tilt device ensures safe operation

side view
face fixture



the markilux bionic tendon made of high-tech fibres for optimum power transference

## Design Features

compact, rectangular cassette

modern, purist design suited to current architectural styles with straight lines and a clear concept

attractive appearance thanks to the torque bar-free construction

compact housing only 140 mm in height

the special cassette shape surrounds the roller tube even when the awning is extended so lending the awing a closed and overall harmonious appearance

the panel joints of the awning cover are ultrasonically bonded – giving an improved appearance without bothersome stitching

when retracted, the cover is protected from the weather by the cassette, which encloses it completely

## Technical Specification

when the awning is closed, the folding arms are protected inside the front profile

folding arms with perfected power transference by means of the innovative bionic tendon

the 85 mm roller tube ensures the highest rigidity and the best possible cover winding characteristics even at the largest widths

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

the new and unique fixture technology makes installation simple and easy

simple pitch adjustment of 5° to 30° via the tilt device

## Accessories

hard-wired motor drive for simple, relaxed operation by means of a wall switch

radio-controlled motor with radio remote control for ease of use

automatic sun and wind controls

in the case of manual operation, ease of use is ensured with the spring-assisted gearbox

the optional lighting in energy-efficient technology (LED spotlights) provides a striking atmosphere under the awning

awning available in non-standard RAL colours

various front panel colours which contrast with the standard Lounge or RAL colour of the frame are available without surcharge

## Lighting options

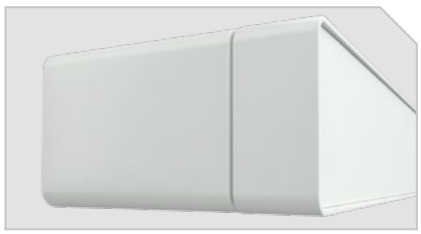
LED spotlights underneath the cassette

**Radio control options LED lighting**

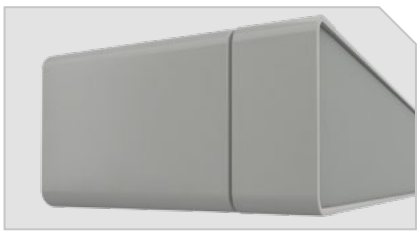
| | **Somfy RTS** (433 MHz) | **Somfy io** (868 MHz) |
|---|---|---|
| LED spotlights | on / off / dimmable **standard** | on / off / dimmable **optional** |

## Frame colours / Front panel colours (upper description / lower description)

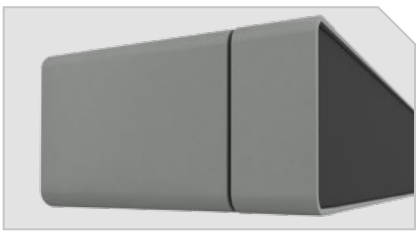
**traffic white** RAL 9016
**traffic white** RAL 9016



**metallic aluminium** RAL 9006
**stone grey metallic** 5215



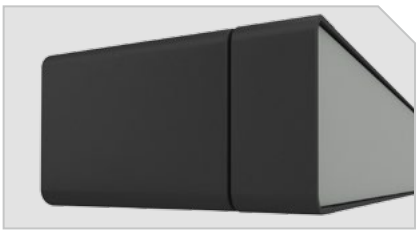
**stone grey metallic** 5215
**anthracite metallic** 5204



**off-white textured finish** 5233
**anthracite metallic** 5204

**anthracite metallic** 5204
**anthracite metallic** 5204

**anthracite metallic** 5204
**stone grey metallic** 5215

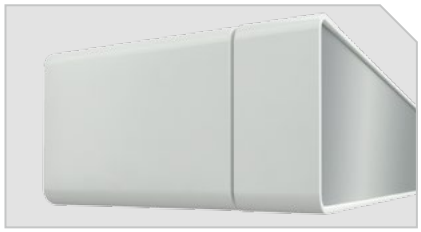


Examples: The colour of the front panel (lower description) can be combined at will with all standard Lounge and RAL colours to match or contrast with the awning colour (upper description).

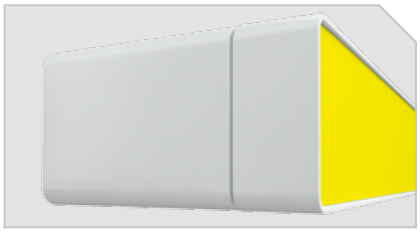
## Additional front panel colours

By way of example, all possible front panel colours are shown below with the frame colour traffic white RAL 9016.
The front panel colours can be combined at will with all standard, non-standard Lounge and RAL colours.

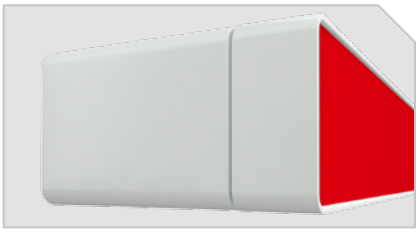
**anodised aluminium** E6 / EV1



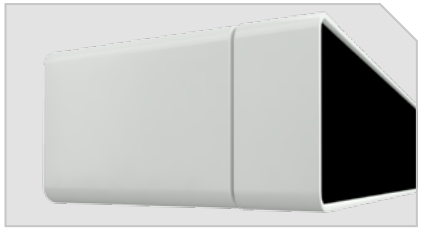
**sulphur yellow** RAL 1016



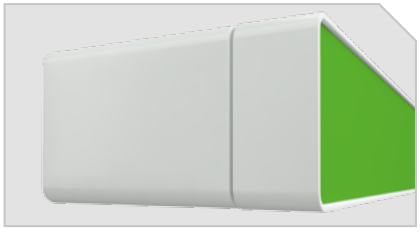
**traffic red** RAL 3020



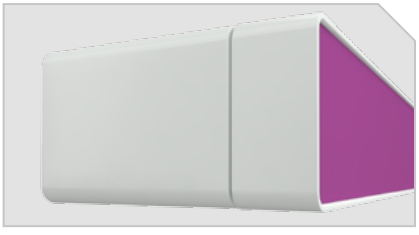
**pitch black** RAL 9005



**yellow green** RAL 6018



**traffic purple** RAL 4006



# Dimensions and configuration options

| | | M | | | | | | | | M min. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **250** | **300** | **350** | **400** | **450** | **500** | **550** | **600** | | |
| | | 195 — 250 | 251 — 300 | 301 — 350 | 351 — 400 | 401 — 450 | 451 — 500 | 501 — 550 | 551 — 600 | | |
| H | **150** | | | | | | | | | 195* | 195 |
| | **200** | 1) | | | | | | | | 245* | 245 |
| | **250** | — | 1) | | | | | | | 295* | 295 |
| | **300** | — | — | 1) | | | | | | 345* | 345 |
| | **350** | — | — | — | 1) | | | — | — | 395* | 395 |

= 2

1) please note the minimum widths!

Dimensions in cm

**Operation / drive unit**

| | standard | optional |
|---|---|---|
| manual operation | ☑ | — |
| servo-assisted operation | — | ☑ |
| motor | — | ☑ |
| io Radio controls | — | ☑ |
| radio-controlled motor (433 MHz) | — | ☑ |

**Covers**

| | fabric range no. | standard | optional |
|---|---|---|---|
| sunsilk snc | 324 .. / 328 .. / 369 .. | ☑ | — |
| sunsilk perla FR | 374 .. | — | ☑ |
| sunvas snc | 310 .. / 311 .. 313 .. — 315 .. | ☑ | — |
| sunvas perla | 370 .. | — | ☑ |

**Frame and front panel colours**

| | | standard | optional |
|---|---|---|---|
| traffic white | RAL 9016 | | |
| metallic aluminium | RAL 9006 | | |
| anthracite metallic | 5204 | | |
| stone grey metallic | 5215 | | |
| off-white textured finish | 5233 | | |
| Havana brown textured finish | 5229 | | |
| non-standard powder-coated finish | | | |

**Additional front panel colours**

| | | standard | optional |
|---|---|---|---|
| anodised aluminium | E6 / EV1 | | |
| sulphur yellow | RAL 1016 | | |
| traffic red | RAL 3020 | | |
| pitch black | RAL 9005 | | |
| yellow green | RAL 6018 | | |
| traffic purple | RAL 4006 | | |

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

**Dimensions and tolerances**

| | width | nominal extension |
|---|---|---|
| housing tolerances | +5 / −5 mm | ±40 mm |
| awning cover width | **M** − 320 mm | |
| awning cover length | **H** + 130 mm | |

**Miscellaneous**

| | standard | optional |
|---|---|---|
| light and wind sensor | — | ☑ |
| vibrabox* / radio control light sensor Sunis WireFree | — | ☑ |

*The vibrabox can only be positioned in the centre, between the arms. If a vibrabox is required the minimum width increases by 15 cm.

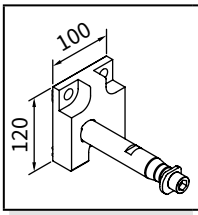
**Additional Information**

The width of the awning cover is always **less** than that of the awning. **Pitch adjustment range**: 5° to 30°. In the case of manual operation **approximately 16 winding handle revolutions** can be assumed **per metre of awning projection.** It takes approximately **12 seconds per metre** to extend a **motor-driven awning**. This model is only available as a single unit.

**M** = overall awning width
**M min.** = minimum width
**H** = extension
2 = no. of folding arms
M = motor
= manual operation

# Fixtures, fittings and accessories

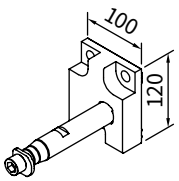
## Face fixture brackets




face fixture bracket

left

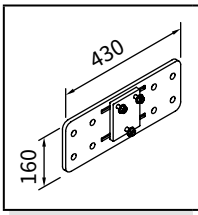
**72826.**




face fixture bracket

right

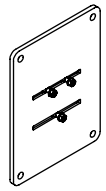
**72827.**




spreader plate A

430 mm ×
160 mm × 12 mm

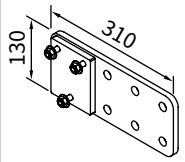
**72870.**



spreader plate B

300 mm ×
400 mm × 12 mm

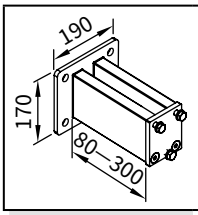
**75325.**




spreader plate C

300 mm ×
400 mm × 12 mm

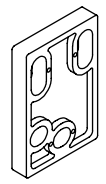
**72526.**




stand-off bracket
for face fixture bracket

please refer to “Face fixture with stand-off brackets”

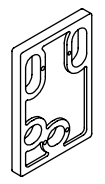
**72872.**



spacer plate for
face fixture
100 mm × 150
mm × 20 mm

**N.B!** stack to a
max. height of 200 mm

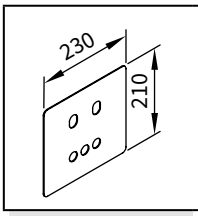
**718231**



spacer plate for
face fixture
100 mm × 150
mm × 12 mm

**N.B!** stack to a
max. height of 200 mm

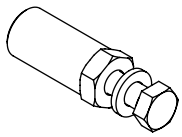
**718241**




cover plate for spacer
plates and stand-off
brackets in the case
of external insulation

210 mm × 230 mm × 2 mm

**71843.**

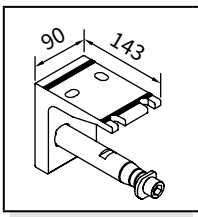


reducing bolt assembly
M 16 → M 12 / SW 27

50 mm

**753891**

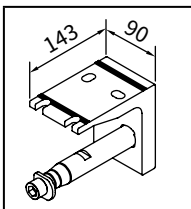
## Top fixture brackets




top fixture bracket

left

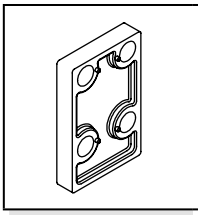
**72860.**




top fixture bracket

right

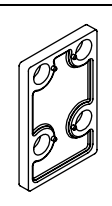
**72861.**



spacer plate for
top fixture
90 mm × 140 mm × 20 mm

**N.B!** stack to a
max. height of 200 mm

**716311**



spacer plate for
top fixture
90 mm × 140 mm × 12 mm

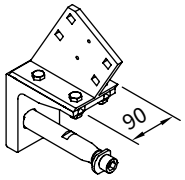
**N.B!** stack to a
max. height of 200 mm

**716411**

**.** = insert RAL colour code no.

# Fixtures, fittings and accessories

## Eaves fixture brackets

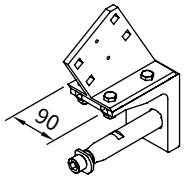



eaves fixture bracket

height of the top plate
150 mm

left

**72874.**

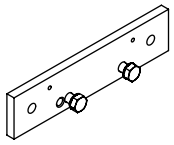



eaves fixture bracket

height of the top plate
150 mm

right

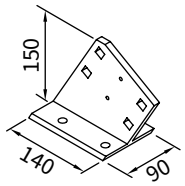
**72875.**



additional
spreader / backing
plate for eaves fixture

60 mm × 260 mm × 12 mm

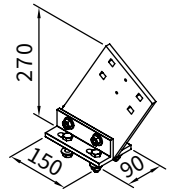
**75383.**




eaves fixture bracket

height of the top plate
150 mm

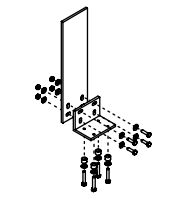
**71612.**




eaves fixture bracket

height of the top plate
270 mm

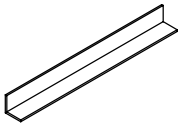
**71659.**



flat plate and angled
bracket for eaves fixture

machine finish

**716620**

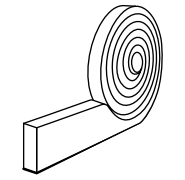


angled aluminium profile
100 mm ×
100 mm × 10 mm

available by the metre
not pre-drilled
793800 machine finish

**79380.**

## Accessories



compression tape,
to eliminate gaps,
in rolls of 8 m, gap size
from 3 mm to 7 mm,
resistance to water
ingression ≥ 600 Pa,
anthracite

**795721**

**.** = insert RAL colour code no.

# Face fixture

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

***compression-proof*** *substrate*

| H [cm] \ M [cm] | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| 150 | 691 | 805 | 919 | 1033 | 1148 | 1262 | 1376 | 1490 |
| 200 | 1084 | 1256 | 1429 | 1601 | 1774 | 1947 | 2119 | 2292 |
| 250 | – | 1745 | 1986 | 2227 | 2469 | 2710 | 2951 | 3193 |
| 300 | – | – | 2632 | 2952 | 3272 | 3592 | 4343 | 4704 |
| 350 | – | – | – | 3863 | 4272 | 5211 | – | – |
| HT \| BHT | 2 \| 100 mm | | | | | | | |
| BM | 6 | | | | | | | |

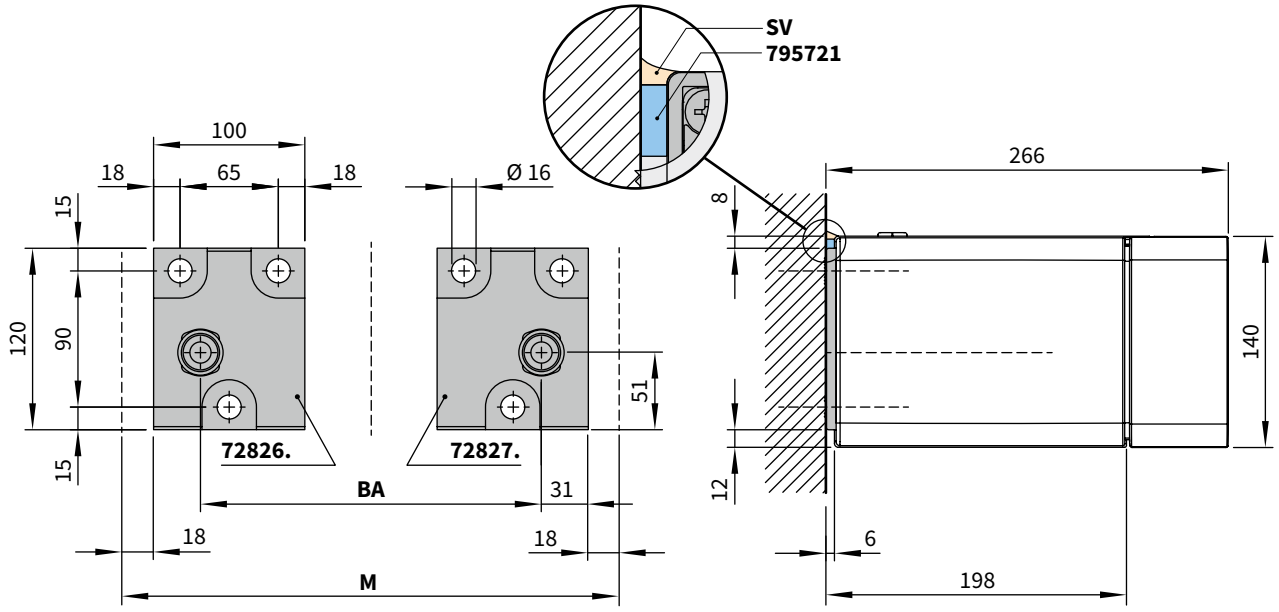
***non compression-proof*** *substrate*

| H [cm] \ M [cm] | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| 150 | 729 | 850 | 970 | 1091 | 1211 | 1332 | 1452 | 1573 |
| 200 | 1144 | 1326 | 1508 | 1690 | 1873 | 2055 | 2237 | 2419 |
| 250 | – | 1842 | 2097 | 2351 | 2606 | 2861 | 3115 | 3370 |
| 300 | – | – | 2778 | 3116 | 3454 | 3792 | 4584 | 4966 |
| 350 | – | – | – | 4077 | 4509 | 5500 | – | – |
| HT \| BHT | 2 \| 100 mm | | | | | | | |
| BM | 6 | | | | | | | |

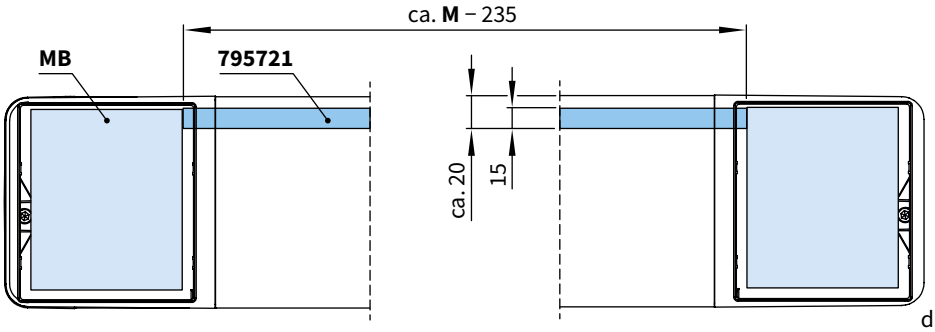
The pull-out forces shown apply when the vertical centre to centre measurement between the fixture points is **90 mm**.
If this measurement is reduced to the minimum, the pull-out force increases by up to **3 %** in the case of **compression-proof** substrates and by up to **7 %** in the case of **non-compression-proof** substrates.

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

**72826.** = face fixture bracket, **left**
**72827.** = face fixture bracket, **right**
**795721** = compression tape
**BA** = width between fixture points
**MB** = bracket fixture range
**SV** = silicon seal




**Face fixture and the use of compression tape**




dimensions in mm

# Face fixture with spreader plate A

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

***compression-proof*** *substrate*

| H [cm] \ M [cm] | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| 150 | 311 | 362 | 414 | 465 | 516 | 567 | 619 | 670 |
| 200 | 485 | 563 | 640 | 717 | 794 | 871 | 949 | 1026 |
| 250 | – | 779 | 887 | 994 | 1102 | 1210 | 1317 | 1425 |
| 300 | – | – | 1172 | 1315 | 1457 | 1600 | 1935 | 2096 |
| 350 | – | – | – | 1718 | 1900 | 2318 | – | – |

| | |
|---|---|
| HT \| BHT | 2 \| 100 mm |
| BP | 2 |
| BM | 16 |

***non compression-proof*** *substrate*

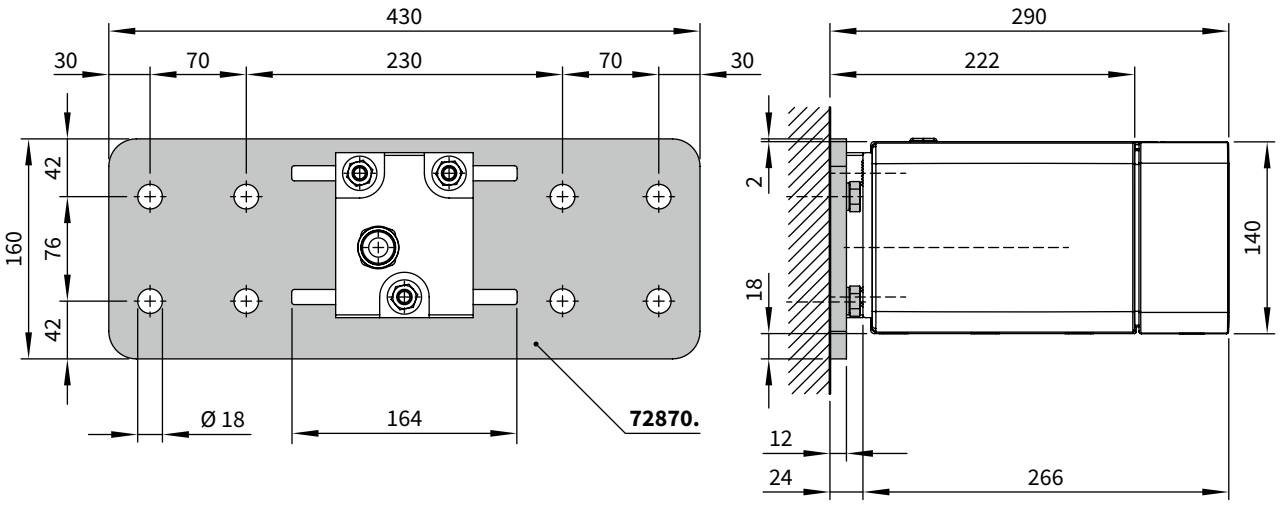
| H [cm] \ M [cm] | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| 150 | 442 | 515 | 588 | 661 | 733 | 806 | 879 | 952 |
| 200 | 690 | 799 | 909 | 1019 | 1129 | 1238 | 1348 | 1458 |
| 250 | – | 1107 | 1260 | 1413 | 1566 | 1719 | 1872 | 2025 |
| 300 | – | – | 1666 | 1869 | 2071 | 2274 | 2749 | 2978 |
| 350 | – | – | – | 2441 | 2700 | 3294 | – | – |

| | |
|---|---|
| HT \| BHT | 2 \| 100 mm |
| BP | 2 |
| BM | 16 |

The pull-out forces shown apply when the vertical centre to centre measurement between the fixture points is **76 mm**.
In the case of spreader plates a washer conforming to DIN 9021 must be used.

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

**72870.** = spreader plate **A**




dimensions in mm

# Face fixture with spreader plate B

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

***compression-proof** substrate*

| H [cm] | M [cm] 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| **150** | 182 | 212 | 242 | 272 | 302 | 332 | 362 | 392 |
| **200** | 285 | 330 | 375 | 421 | 466 | 511 | 557 | 602 |
| **250** | – | 458 | 521 | 584 | 647 | 711 | 774 | 837 |
| **300** | – | – | 689 | 773 | 857 | 941 | 1138 | 1232 |
| **350** | – | – | – | 1011 | 1118 | 1364 | | |

| | |
|---|---|
| **HT \| BHT** | 2 \| 100 mm |
| **BP** | 2 |
| **BM** | 8 |

***non compression-proof** substrate*

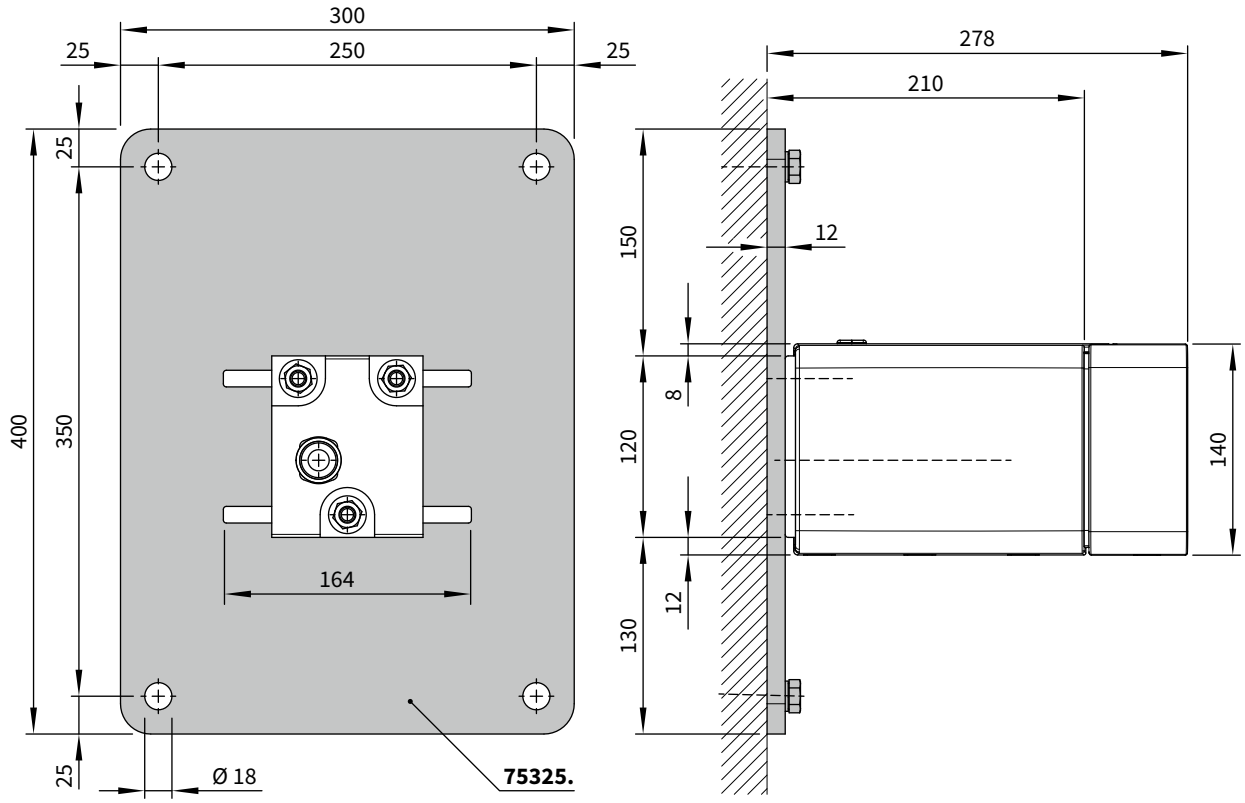
| H [cm] | M [cm] 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| **150** | 190 | 221 | 252 | 284 | 315 | 346 | 378 | 409 |
| **200** | 297 | 344 | 391 | 439 | 486 | 533 | 580 | 628 |
| **250** | – | 477 | 543 | 609 | 675 | 741 | 807 | 873 |
| **300** | – | – | 719 | 806 | 894 | 981 | 1186 | 1285 |
| **350** | – | – | – | 1054 | 1166 | 1422 | – | – |

| | |
|---|---|
| **HT \| BHT** | 2 \| 100 mm |
| **BP** | 2 |
| **BM** | 8 |

The pull-out forces shown apply when the vertical centre to centre measurement between the fixture points is **350 mm**.
In the case of spreader plates a washer conforming to DIN 9021 must be used.

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

**75325.** = spreader plate **B**




dimensions in mm

# Face fixture with spreader plate C

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

***compression-proof*** *substrate*

| H [cm] \ M [cm] | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| 150 | 481 | 561 | 640 | 720 | 799 | 879 | 958 | 1037 |
| 200 | 751 | 871 | 991 | 1110 | 1230 | 1349 | 1469 | 1589 |
| 250 | — | 1206 | 1373 | 1539 | 1706 | 1873 | 2040 | 2206 |
| 300 | — | — | 1815 | 2036 | 2257 | 2477 | 2996 | 3245 |
| 350 | — | — | — | 2660 | 2942 | 3589 | — | — |

| | |
|---|---|
| HT \| BHT | 2 \| 100 mm |
| BP | 2 |
| BM | 12 |

***non compression-proof*** *substrate*

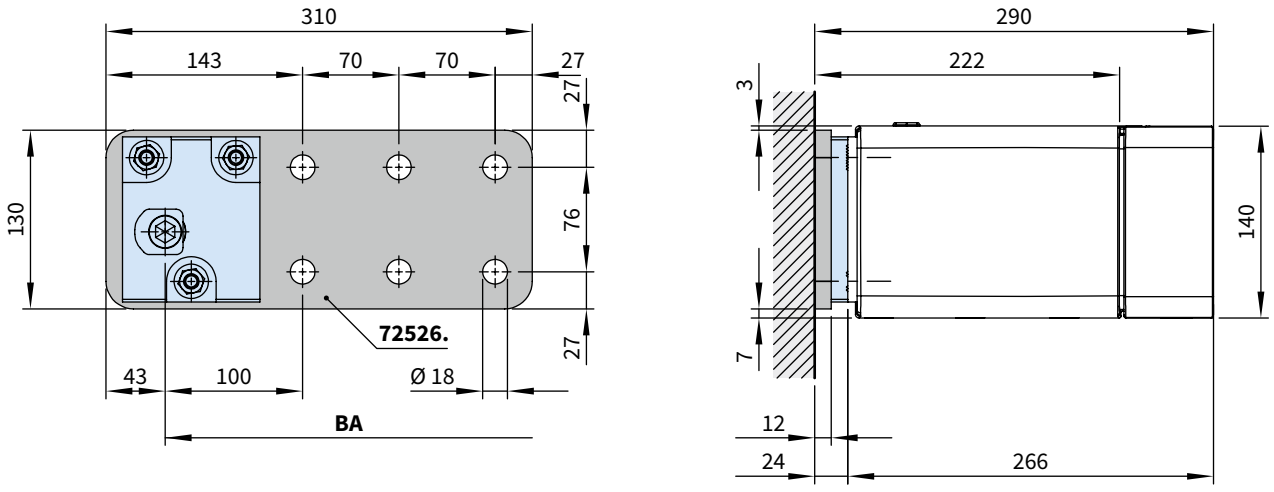
| H [cm] \ M [cm] | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|
| | FB [N] | | | | | | | |
| 150 | 589 | 686 | 783 | 881 | 978 | 1075 | 1172 | 1270 |
| 200 | 920 | 1066 | 1212 | 1359 | 1505 | 1651 | 1798 | 1944 |
| 250 | — | 1476 | 1680 | 1884 | 2088 | 2292 | 2496 | 2700 |
| 300 | — | — | 2221 | 2492 | 2762 | 3032 | 3666 | 3971 |
| 350 | — | — | — | 3255 | 3600 | 4392 | — | — |

| | |
|---|---|
| HT \| BHT | 2 \| 100 mm |
| BP | 2 |
| BM | 12 |

The pull-out forces shown apply when the vertical centre to centre measurement between the fixture points is **76 mm**.
In the case of spreader plates a washer conforming to DIN 9021 must be used.

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

**72526.** = spreader plate **C**




dimensions in mm

# Face fixture with stand-off brackets

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

| | ***compression-proof** substrate* M [cm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **250** | **300** | **350** | **400** | **450** | **500** | **550** | **600** |
| **H [cm]** | **FB [N]** | | | | | | | |
| **150** | 633 | 736 | 839 | 942 | 1044 | 1147 | 1250 | 1353 |
| **200** | 944 | 1093 | 1242 | 1390 | 1539 | 1687 | 1836 | 1985 |
| **250** | – | 1468 | 1669 | 1871 | 2072 | 2273 | 2475 | 2676 |
| **300** | – | – | 2160 | 2421 | 2683 | 2944 | 3569 | 3866 |
| **350** | – | – | – | 3115 | 3443 | 4209 | – | – |

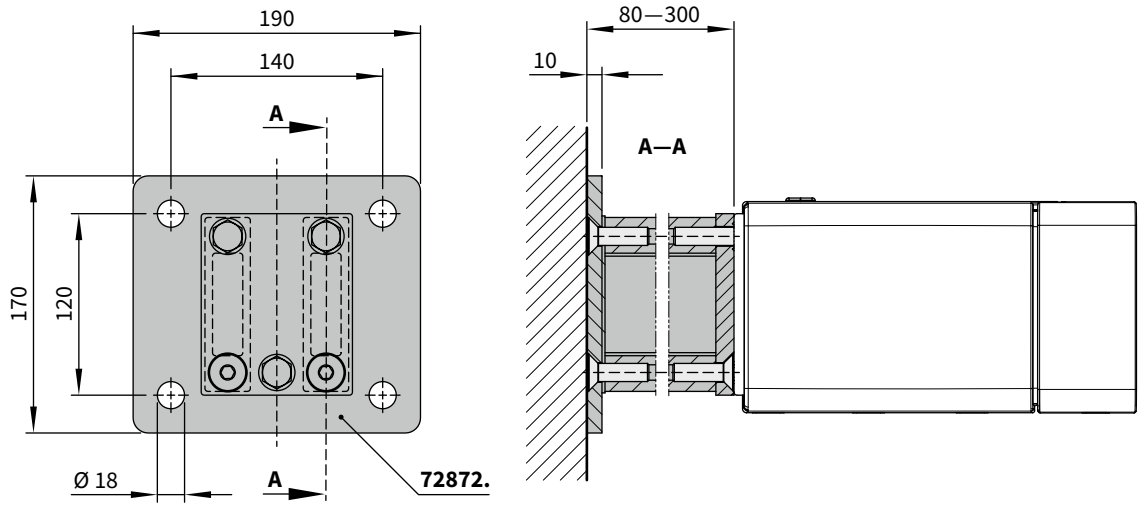
| | ***non compression-proof** substrate* M [cm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **250** | **300** | **350** | **400** | **450** | **500** | **550** | **600** |
| | **FB [N]** | | | | | | | |
| **150** | 712 | 827 | 943 | 1059 | 1175 | 1291 | 1407 | 1523 |
| **200** | 1062 | 1230 | 1397 | 1564 | 1731 | 1898 | 2066 | 2233 |
| **250** | – | 1651 | 1878 | 2104 | 2331 | 2557 | 2784 | 3011 |
| **300** | – | – | 2430 | 2724 | 3018 | 3312 | 4016 | 4349 |
| **350** | – | – | – | 3504 | 3873 | 4735 | – | – |

| | | |
|---|---|---|
| **HT \| BHT** | 2 \| 100 mm | 2 \| 100 mm |
| **DH 72872.** | 2 | 2 |
| **BM** | 8 | 8 |

The pull-out forces shown apply when the vertical centre to centre measurement between the fixture points is **120 mm**.
In the case of stand-off brackets washers conforming to DIN 9021 must be used.

M = overall awning width
H = nominal projection
FB = pull-out force per fixing point
HT | BHT = bracket quantity | width
BM = no. of fixing points
DH = no. of stand-off brackets

**72872.** = stand-off brackets for face fixture brackets 72826. and 72827.




dimensions in mm

# Top fixture

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

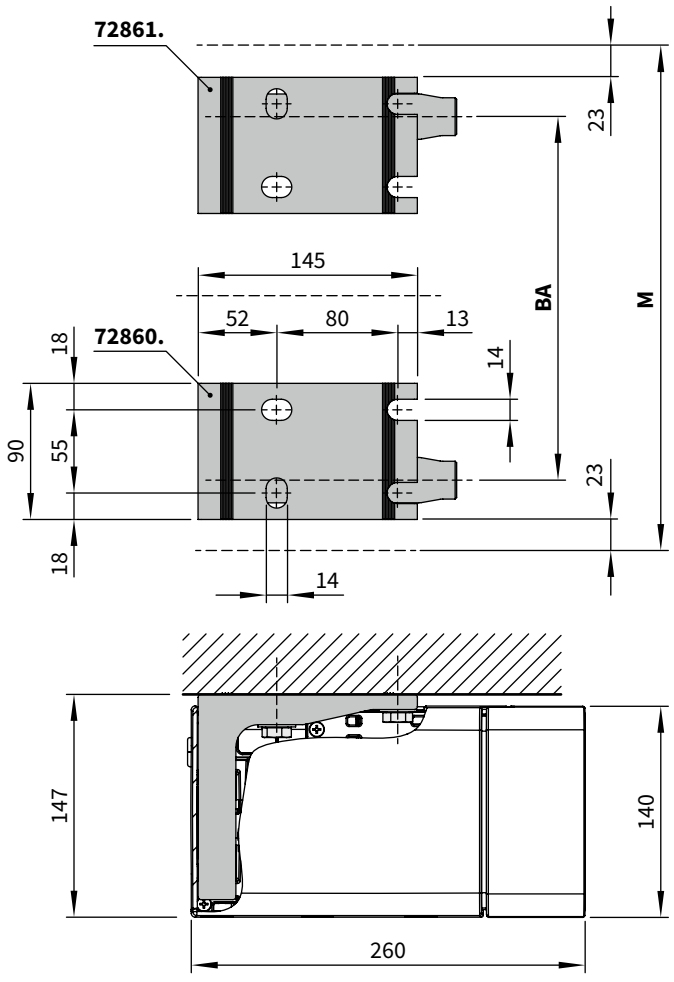
| | ***compression-proof** substrate* M [cm] | | | | | | | | ***non compression-proof** substrate* M [cm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **250** | **300** | **350** | **400** | **450** | **500** | **550** | **600** | **250** | **300** | **350** | **400** | **450** | **500** | **550** | **600** |
| **H [cm]** | **FB [N]** | | | | | | | | **FB [N]** | | | | | | | |
| **150** | 609 | 712 | 815 | 918 | 1021 | 1124 | 1227 | 1330 | 883 | 1031 | 1179 | 1327 | 1475 | 1623 | 1771 | 1920 |
| **200** | 920 | 1069 | 1219 | 1368 | 1517 | 1666 | 1815 | 1965 | 1349 | 1567 | 1784 | 2002 | 2219 | 2437 | 2654 | 2872 |
| **250** | – | 1456 | 1660 | 1863 | 2067 | 2271 | 2474 | 2678 | – | 2147 | 2446 | 2745 | 3044 | 3343 | 3642 | 3941 |
| **300** | – | – | 2171 | 2437 | 2703 | 2969 | 3576 | 3874 | – | – | 3213 | 3606 | 3998 | 4391 | 5295 | 5737 |
| **350** | – | – | – | 3158 | 3495 | 4250 | – | – | – | – | – | 4687 | 5186 | 6313 | – | – |

| | | |
|---|---|---|
| **HT \| BHT** | 2 \| 90 mm | 2 \| 90 mm |
| **BM** | 8 | 8 |

The pull-out forces shown apply when the horizontal centre to centre measurement between the fixture points is **80 mm.**

M = overall awning width
H = nominal projection
FB = pull-out force per fixing point
HT | BHT = bracket quantity | width
BM = no. of fixing points
**BA** = width between fixture points

**72860.** = top fixture bracket, **left**
**72861.** = top fixture bracket, **right**




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 M [cm] | | | | | | | | Shear force M [cm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
| H [cm] | Md [Nm] | | | | | | | | FS [N] | | | | | | | |
| 150 | 131 | 153 | 175 | 196 | 218 | 240 | 261 | 283 | 1583 | 1850 | 2116 | 2382 | 2648 | 2914 | 3180 | 3446 |
| 200 | 206 | 239 | 271 | 304 | 337 | 370 | 403 | 436 | 2412 | 2802 | 3191 | 3581 | 3970 | 4360 | 4749 | 5139 |
| 250 | – | 332 | 377 | 423 | 469 | 515 | 561 | 607 | – | 3834 | 4368 | 4902 | 5437 | 5971 | 6506 | 7040 |
| 300 | – | – | 500 | 561 | 622 | 683 | 825 | 894 | – | – | 5732 | 6432 | 7133 | 7834 | 9443 | 10232 |
| 350 | – | – | – | 734 | 812 | 990 | – | – | – | – | – | 8355 | 9244 | 11250 | – | – |
| HT | 2 | | | | | | | | 2 | | | | | | | |
| BM | 8 | | | | | | | | 8 | | | | | | | |

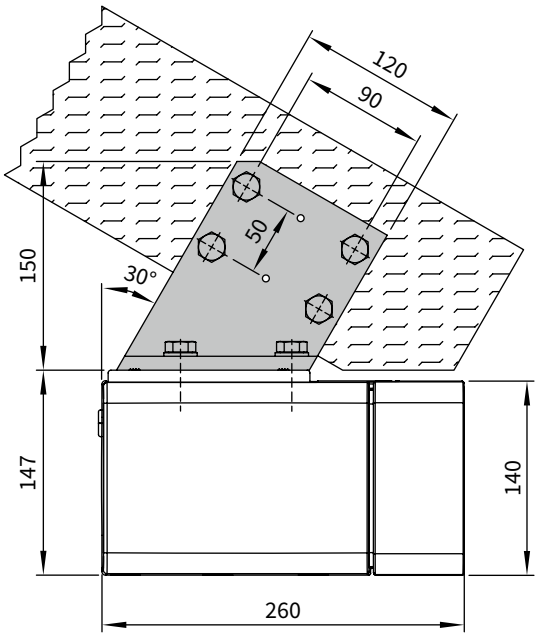
The shear force is calculated on the basis of 2 fixture points per bracket, because – depending on the roof pitch – it cannot be guaranteed that 4 fixture points per bracket can used.

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

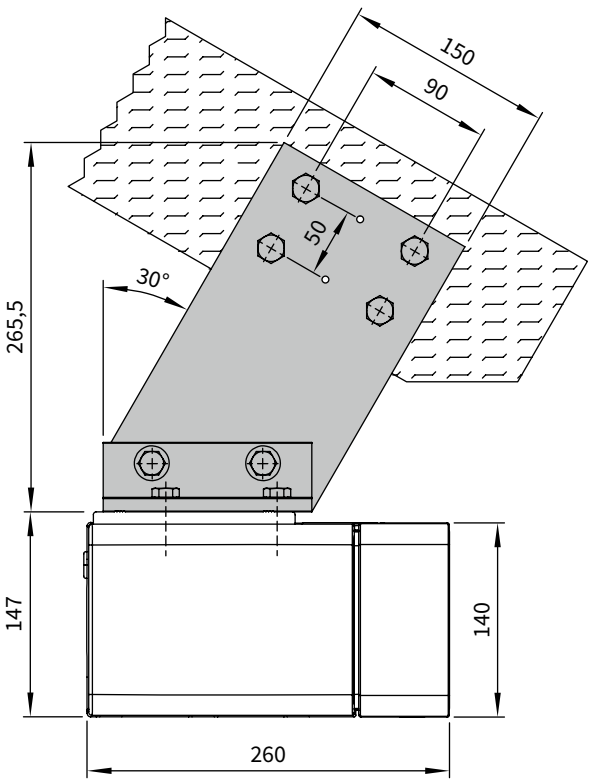
**72874.** = eaves fixture bracket, *complete*, 150 mm, **left**
**72875.** = eaves fixture bracket, *complete*, 150 mm, **right**

**71612.** = eaves fixture bracket, height of the top plate **150 mm**
**71659.** = eaves fixture bracket, height of the top plate **270 mm**

**with eaves fixture bracket 150 mm**




**with eaves fixture bracket 270 mm**




dimensions in mm

# Eaves fixture with additional spreader / backing 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

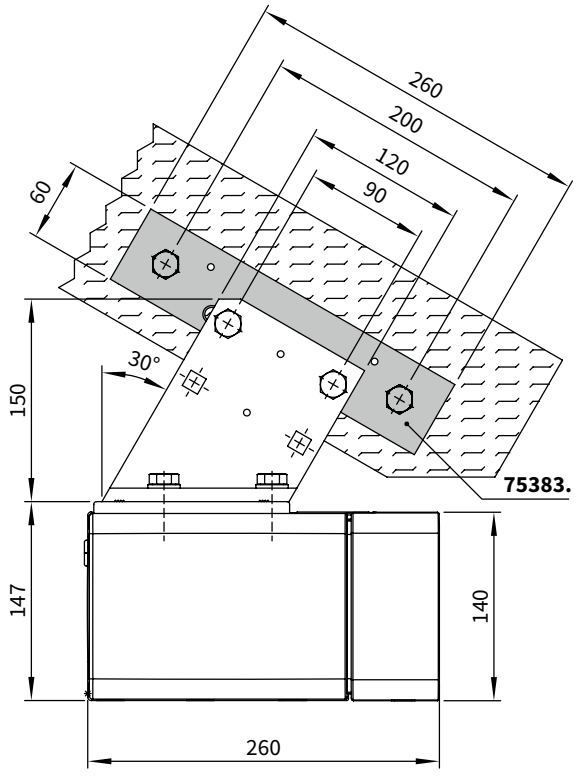
| | Torque M [cm] | | | | | | | | Shear force M [cm] | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
| H [cm] | FB [N] | | | | | | | | FB [N] | | | | | | | |
| 150 | 131 | 153 | 175 | 196 | 218 | 240 | 261 | 283 | 781 | 915 | 1048 | 1182 | 1315 | 1449 | 1582 | 1716 |
| 200 | 206 | 239 | 271 | 304 | 337 | 370 | 403 | 436 | 1154 | 1343 | 1532 | 1721 | 1910 | 2099 | 2288 | 2478 |
| 250 | – | 332 | 377 | 423 | 469 | 515 | 561 | 607 | – | 1808 | 2062 | 2316 | 2570 | 2825 | 3079 | 3333 |
| 300 | – | – | 500 | 561 | 622 | 683 | 825 | 894 | – | – | 2675 | 3005 | 3334 | 3663 | 4401 | 4769 |
| 350 | – | – | – | 734 | 812 | 990 | – | – | – | – | – | 3870 | 4283 | 5200 | – | – |
| HT | 2 | | | | | | | | 2 | | | | | | | |
| BM | 4 | | | | | | | | 4 | | | | | | | |

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

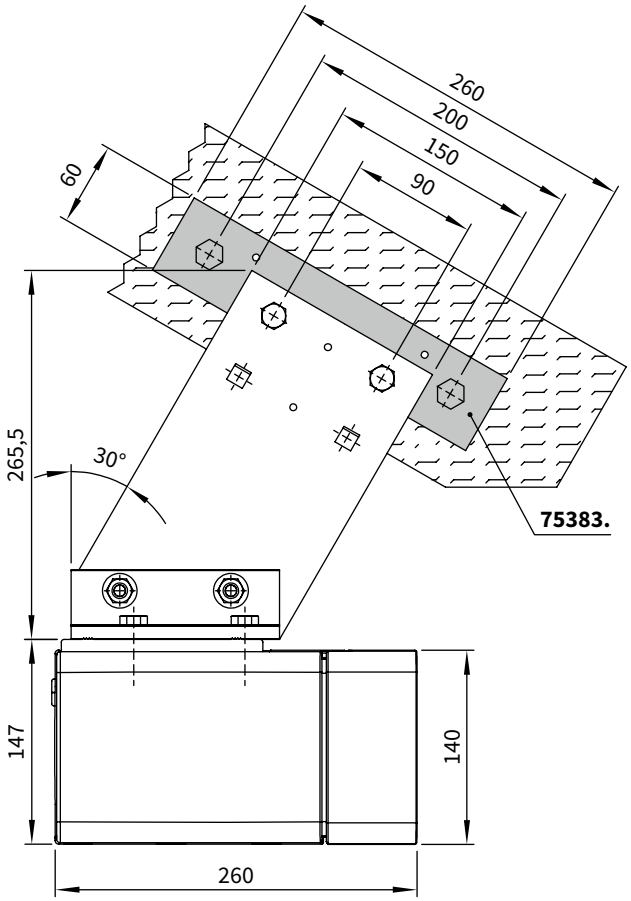
M = overall awning width
H = nominal projection
Md = torque value for the bracket in the immediate vicinity of the arm
HT = no. of brackets per track
FS = shear force
BM = no. of fixing points

**75383.** = additional spreader / backing plate for eaves fixture
60 mm × 260 mm × 12 mm

**with eaves fixture bracket 150 mm**

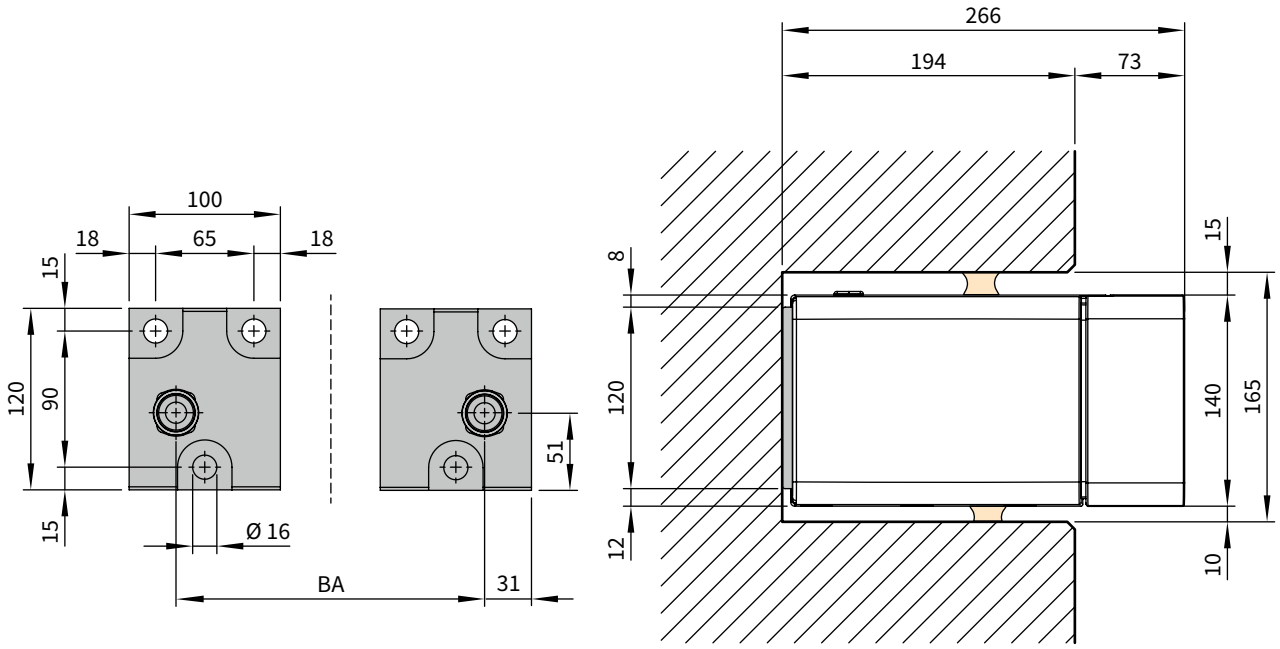



**with eaves fixture bracket 270 mm**




dimensions in mm

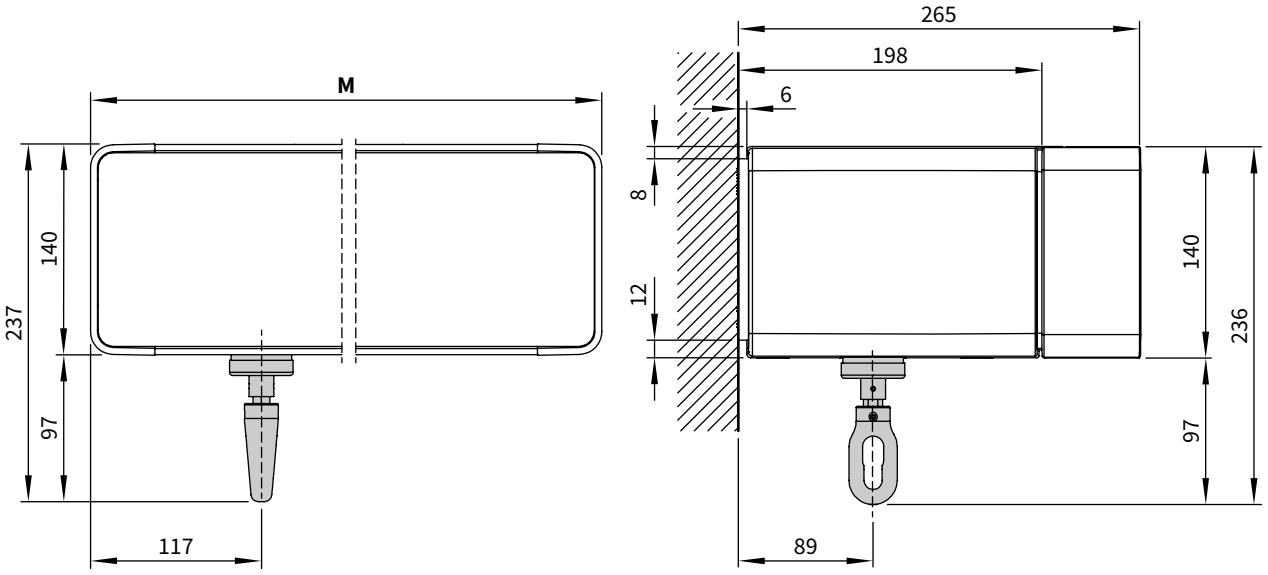
## Recess fixture




**72826.** = face fixture bracket, **left**
**72827.** = face fixture bracket, **right**

dimensions in mm

## Manual operation when using face fixture

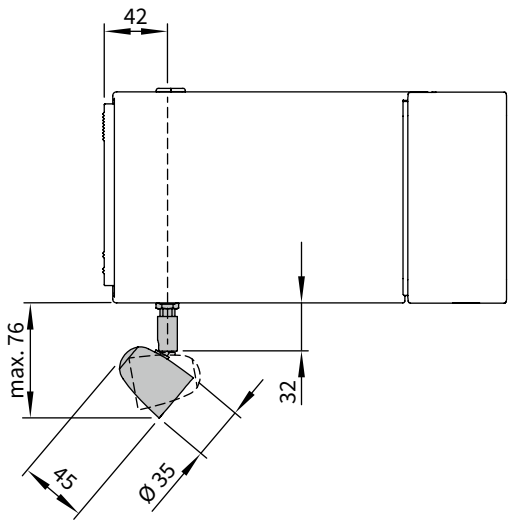



dimensions in mm

M = overall awning width = order width of the folding-arm awning
BA = width between fixture points

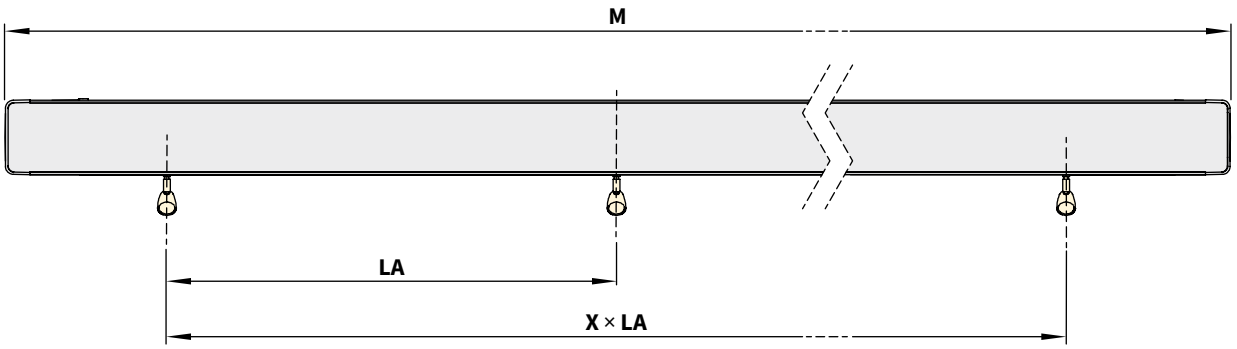
# Lighting options

## LED spotlights




dimensions in mm

## Dimensions / No. of LED spotlights

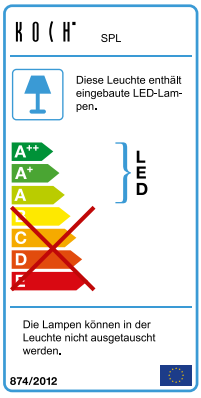



| **M** (mm) | **Number of spotlights** | **LA** (mm) |
|---|---|---|
| 1950—2500 | **3** | 750 |
| 2501—3000 | **3** | 980 |
| 3001—3500 | **3** | 980 |
| 3501—4000 | **4** | 980 |
| 4001—4500 | **4** | 980 |
| 4501—5000 | **5** | 980 |
| 5001—5500 | **5** | 980 |
| 5501—6000 | **6** | 980 |

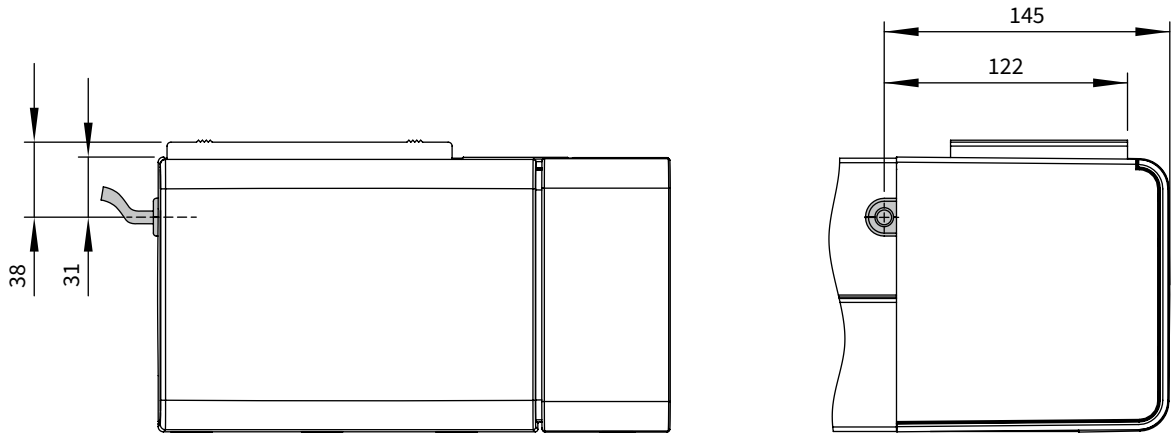
M = overall awning width
LA = spotlight separation

## Technical data markilux LED spotlights

| | |
|---|---|
| operating voltage | 230 V, 50 Hz |
| power output per spotlight | 5 W |
| light source | LED (12 V) |
| number of transformers | 1 piece |
| light temperature | 2700 K, warm white |
| IP protection class | IP 44 |
| energy efficiency class | A bis A++ |
| service life | approx. 20,000 h |

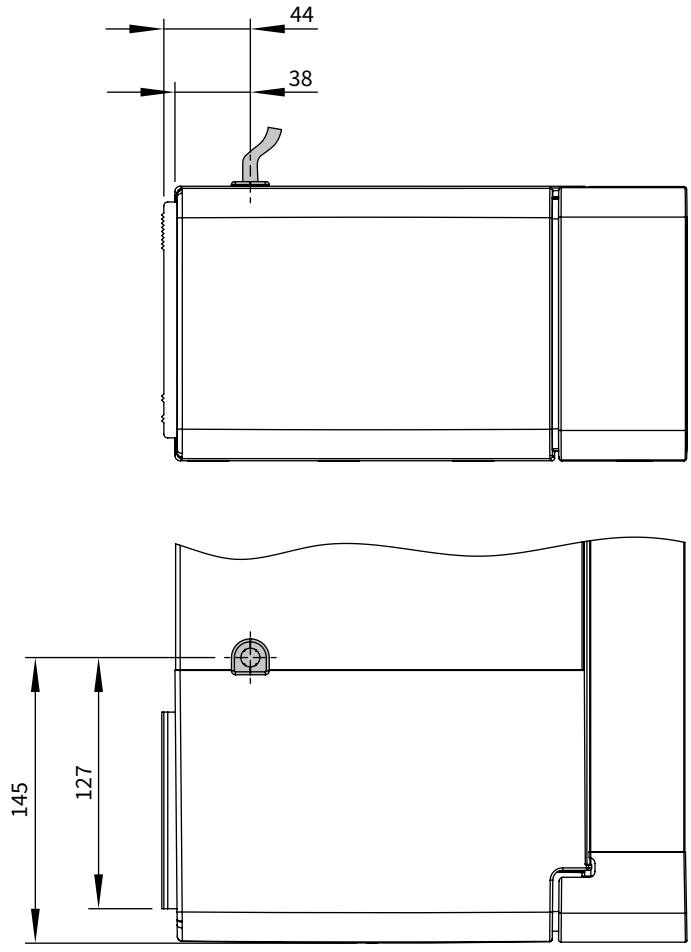


## Cable exit point in the case of top fixture



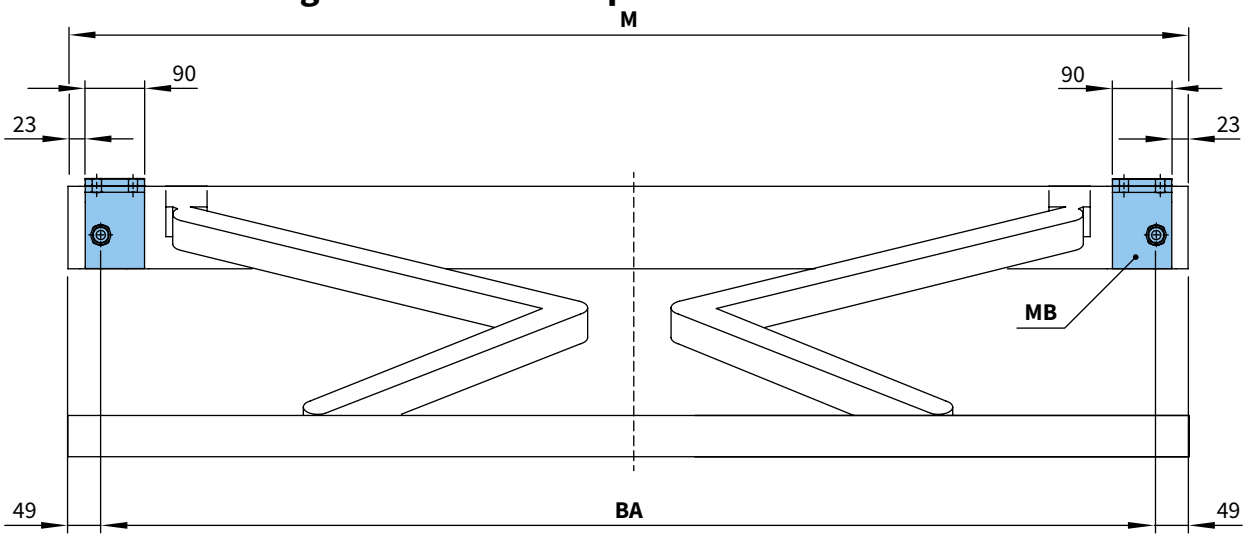

dimensions in mm

## Cable exit point in the case of face fixture



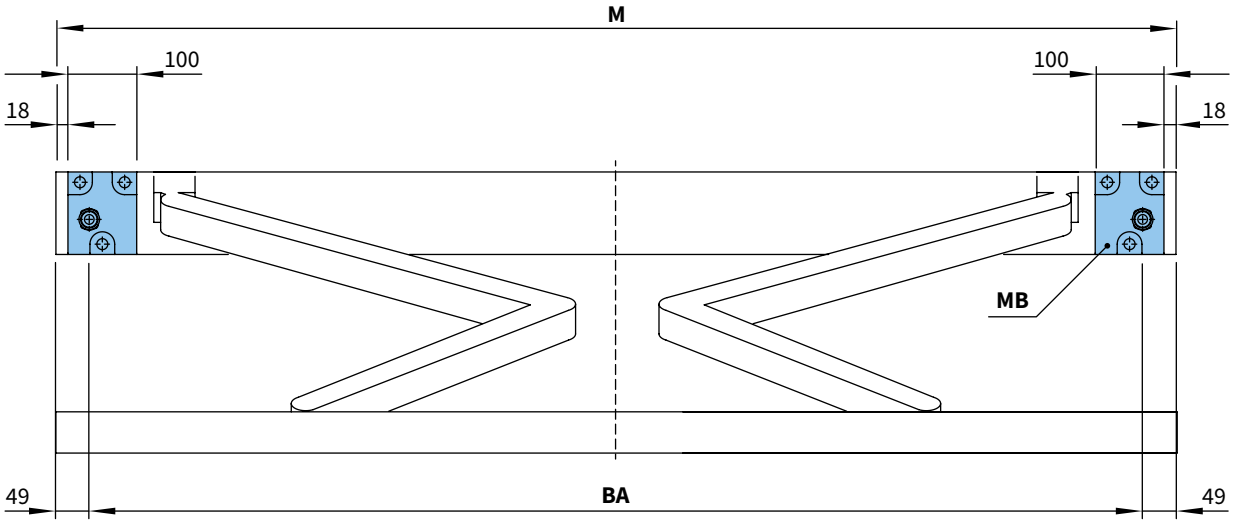

dimensions in mm

## Bracket fixture range in the case of top fixture



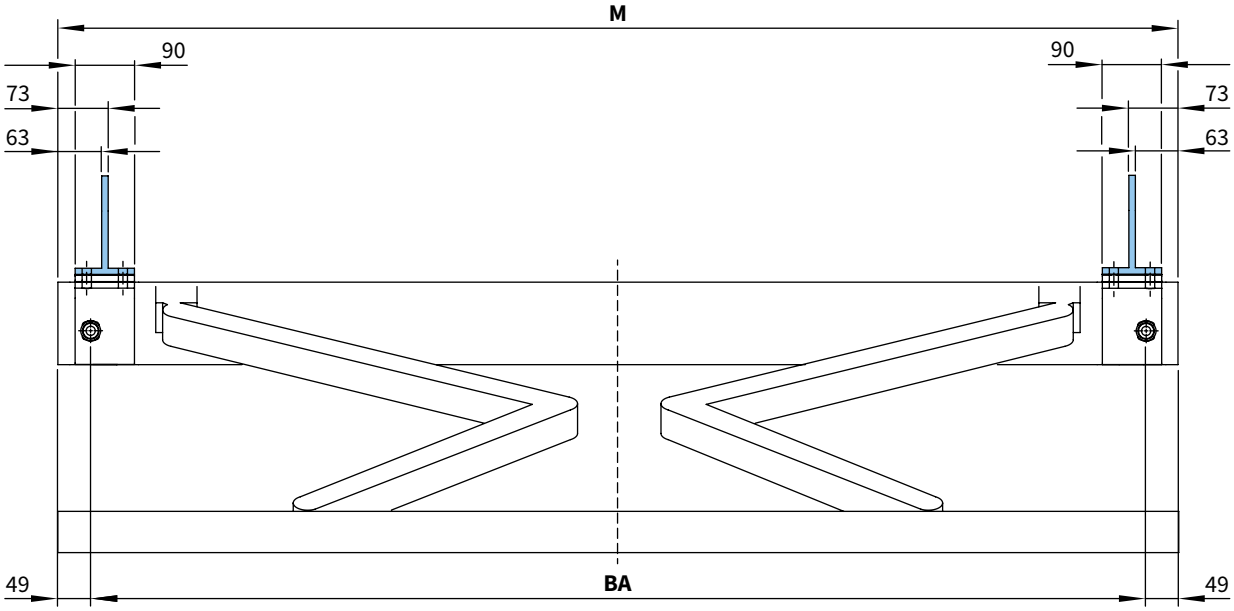

dimensions in mm

## Bracket fixture range in the case of face fixture




dimensions in mm

## Bracket fixture range in the case of eaves fixture




dimensions in mm

M = awning width = order width of the folding-arm awning

MB = bracket fixture range

BA = width between fixture points