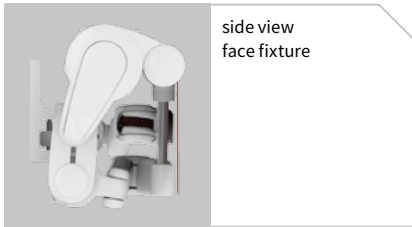


markilux 1710 stretch

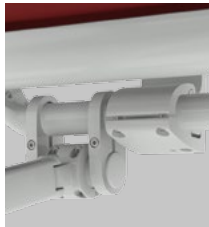
Chic, modern, compact – the cover cassette awning with perfected design features. The perfect solution for narrow patios, niches and balconies

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

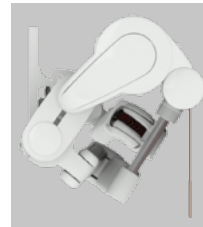




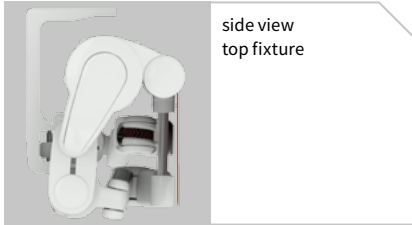
side view
face fixture



tiered folding arm
fitted to the sturdy
torque bar



pitch adjustment
from 5° to 25°
via the fixture brackets



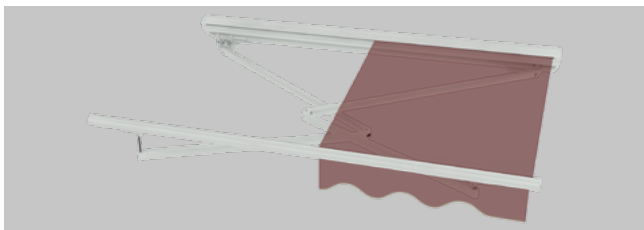
side view
top fixture



arm connection
to the front profile



side view
with wall sealing profile
(optional), effective
up to a maximum
awning pitch of 15°



greater projection
than width: the perfect
solution for narrow
patios, niches and
balconies; arms cross
above one another
during extension
and retraction

Design Features

cover cassette made of extruded aluminium; a compact cassette combined with proven technology to enable the safe shading of larger areas

the special cassette shape surrounds the roller tube even when the awning is extended thus creating an overall harmonious appearance

the transition from torque bar to roller tube is curved and homogeneous

side caps available in polished chrome offer an optional designer touch

Technical Specification

thanks to this innovative technical solution – tiered arms – large projections can still be achieved in narrow awnings

attractive front profile made of extruded aluminium with integrated gutter and water drainage spouts

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

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

unique arm technology with power transference by way of the highly tear-resistant bionic tendon made of high-tech fibres, achieving at least 50,000 cycles in tests by the Fraunhofer Institute

Optional Accessories

hard-wired motor operation (optionally with automatic weather controls) for straightforward and easy operation

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

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

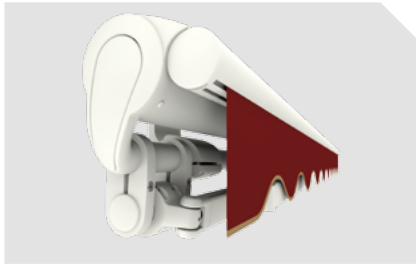
awning available in non-standard RAL colours

markilux infrared heater in a compact aluminium housing; caressing warmth without heating-up phase within an area of approx. 9-12 m²

Lounge colours

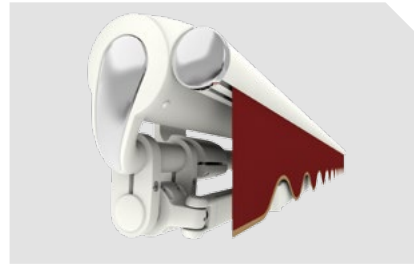
markilux 1710 stretch

off-white textured finish 5233

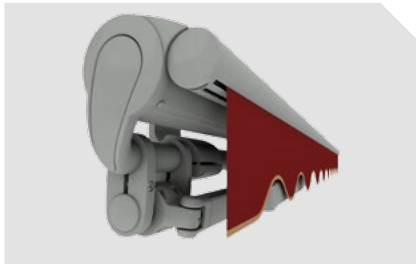


End caps in polished chrome

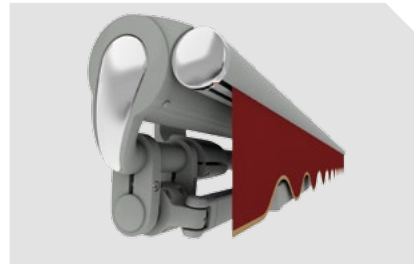
off-white textured finish 5233



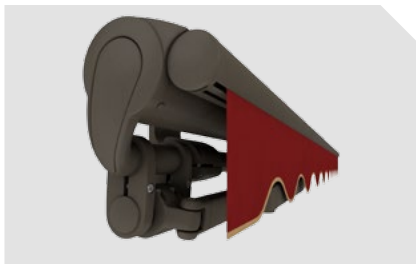
stone grey metallic 5215



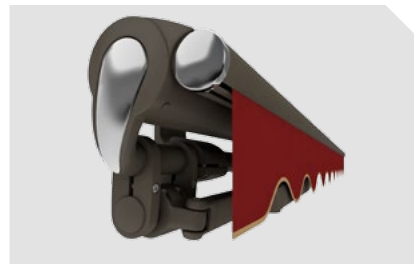
stone grey metallic 5215



Havana brown textured finish 5229



Havana brown textured finish 5229



anthracite metallic 5204



anthracite metallic 5204



01

02

03

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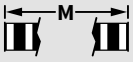
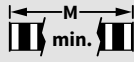






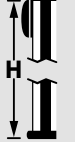
21

22

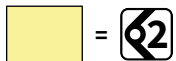
23

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

Dimensions and configuration options

| |  | | | | | | |  | | | |
|---|---|------------|------------|------------|------------|------------|------------|---|---|---|---|
| | 150 | 175 | 200 | 225 | 250 | 300 | 350 |  |  | | |
| | 123 150 | 151 175 | 176 200 | 201 225 | 226 250 | 251 300 | 301 350 |  |  |  |  |
|  | 150 | 2) | 1) | - | - | - | - | 130 | 123 | 132 | 125 |
| | 200 | - | 2) | | | 1) | - | 155 | 148 | 157 | 150 |
| | 250 | - | - | 2) | | | 1) | 180 | 173 | 182 | 175 |
| | 300 | - | - | 2) | | | 1) | 205 | 198 | 207 | 200 |
| | 350 | - | - | - | 2) | | | 230 | 223 | 232 | 225 |

dimensions in cm



- 1) intermediate widths on request
2) please note the minimum widths!

Operation / Drive

| | standard | optional |
|----------------------------------|-------------------------------------|-------------------------------------|
| manual operation | <input checked="" type="checkbox"/> | - |
| servo-assisted operation | - | <input checked="" type="checkbox"/> |
| hard-wired motor | - | <input checked="" type="checkbox"/> |
| io radio controls | - | <input checked="" type="checkbox"/> |
| radio-controlled motor (433 MHz) | - | <input checked="" type="checkbox"/> |



Covers

| | fabric range no. | standard | optional |
|------------------|------------------------------------|-------------------------------------|-------------------------------------|
| sunsilk snc | 324 .. / 328 .. / 369 .. | <input checked="" type="checkbox"/> | - |
| sunsilk perla FR | 374 .. | - | <input checked="" type="checkbox"/> |
| sunvas snc | 310 .. / 311 .. 313 .. — 315 .. | <input checked="" type="checkbox"/> | - |
| sunvas perla | 370 xx | - | <input checked="" type="checkbox"/> |

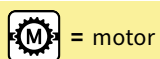
Miscellaneous

| | standard | optional |
|--|---|---|
| bionic tendon | <input checked="" type="checkbox"/> | - |
| wall sealing profile | - | <input checked="" type="checkbox"/> ³⁾ |
| light and wind sensor | - | <input checked="" type="checkbox"/> |
| valance | <input checked="" type="checkbox"/> ⁴⁾ | - |
| infrared heater | - | <input checked="" type="checkbox"/> |
| vibrabox / radio control light sensor Sunis WireFree | - | <input checked="" type="checkbox"/> |

Dimensions and tolerances

| | width | | projection |
|---|---|---|------------|
| |  |  | |
| housing tolerances | +5 / -10 mm | | ±40 mm |
| awning cover width = awning width | -100 mm | -135 mm | |
| awning cover length = awning projection | | | +150 mm |

- 3) up to a maximum awning pitch of 15°
4) valance shape 2 (please refer to the section "markilux Collection")



= motor



= manual operation

M = awning width



= no. of folding arms











= no. of bespoke arms


M min. = minimum widths

H = projection

Frame colours

| | | standard | optional |
|-----------------------------------|----------|---|---|
| traffic white | RAL 9016 |  | |
| metallic aluminium | RAL 9006 |  | |
| grey brown, similar to | RAL 8019 | |  |
| light ivory | RAL 1015 | |  |
| anthracite metallic | 5204 |  | |
| stone grey metallic | 5215 |  | |
| off-white textured finish | 5233 |  | |
| Havana brown textured finish | 5229 |  | |
| non-standard powder-coated finish | | |  |

Other end cap colour options

| | standard | optional |
|-----------------|----------|---|
| polished chrome | |  |

Additional information

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

Definition of operation side:

The operation side is given looking at the awning from the outside (right or left)

Pitch adjustment range:

from 5° to 25° (to the horizontal).

Definition of projection:

please consult the “Technical Information” section.

In the case of manual operation approximately **16 winding handle revolutions can be assumed per metre of awning projection.**

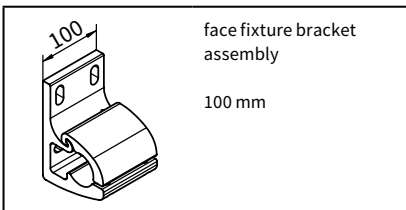
It takes approximately **12 seconds per metre** to extend the awning in the case of **motor-driven units.**

This model is only available as a single unit.

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

Fixtures, fittings and accessories

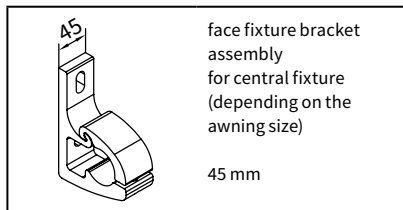
Fixture brackets



face fixture bracket
assembly

100 mm

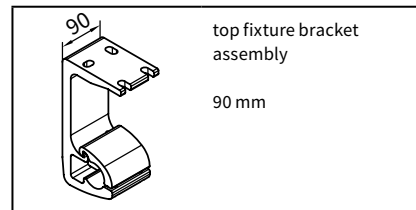
70867.



face fixture bracket
assembly
for central fixture
(depending on the
awning size)

45 mm

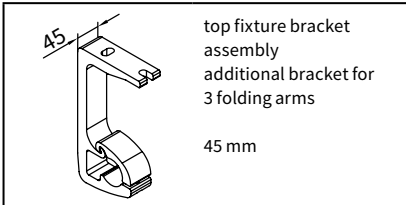
71813.



top fixture bracket
assembly

90 mm

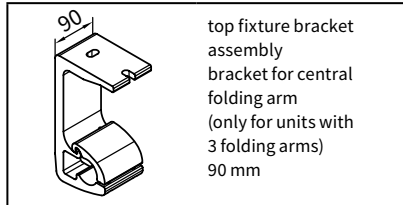
70868.



top fixture bracket
assembly
additional bracket for
3 folding arms

45 mm

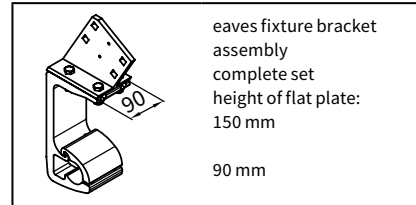
71818.



top fixture bracket
assembly
bracket for central
folding arm
(only for units with
3 folding arms)

90 mm

70869.

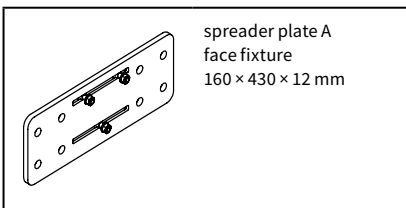


eaves fixture bracket
assembly
complete set
height of flat plate:
150 mm

90 mm

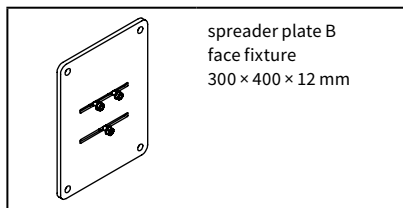
70871.

Spreader and spacer plates



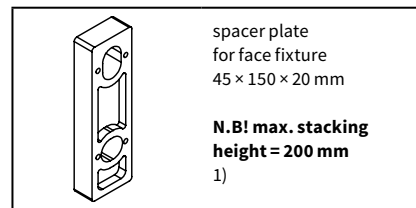
spreader plate A
face fixture
160 × 430 × 12 mm

75326.



spreader plate B
face fixture
300 × 400 × 12 mm

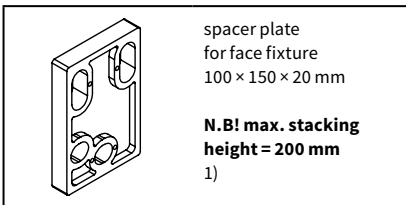
75325.



spacer plate
for face fixture
45 × 150 × 20 mm

**N.B! max. stacking
height = 200 mm**
1)

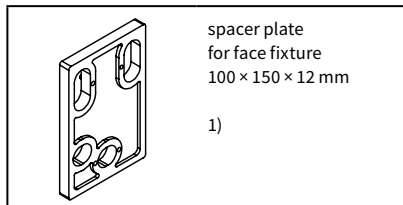
718251



spacer plate
for face fixture
100 × 150 × 20 mm

**N.B! max. stacking
height = 200 mm**
1)

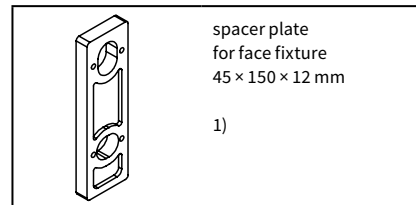
718231



spacer plate
for face fixture
100 × 150 × 12 mm

1)

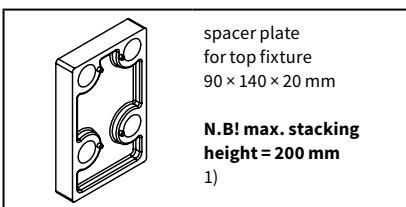
718241



spacer plate
for face fixture
45 × 150 × 12 mm

1)

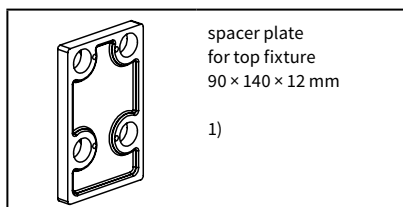
71826.



spacer plate
for top fixture
90 × 140 × 20 mm

**N.B! max. stacking
height = 200 mm**
1)

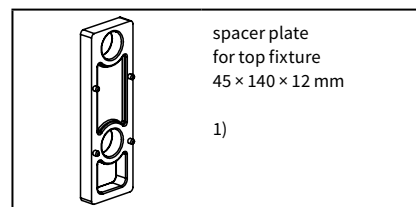
716311



spacer plate
for top fixture
90 × 140 × 12 mm

1)

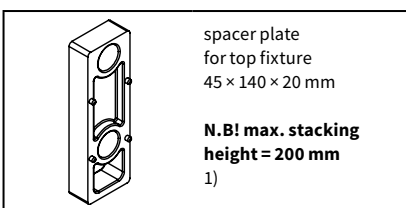
716411



spacer plate
for top fixture
45 × 140 × 12 mm

1)

716371



spacer plate
for top fixture
45 × 140 × 20 mm

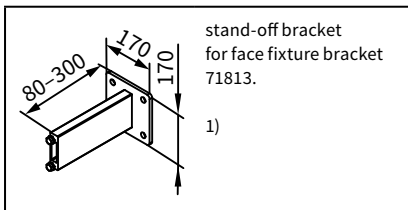
**N.B! max. stacking
height = 200 mm**
1)

716261

1) please refer to the section "Technical Information"

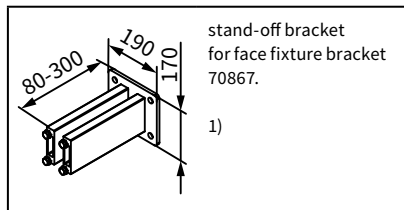
. = insert RAL colour code no

Stand-off brackets



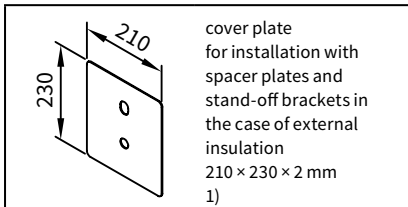
stand-off bracket
for face fixture bracket
71813.

1)

77967.

stand-off bracket
for face fixture bracket
70867.

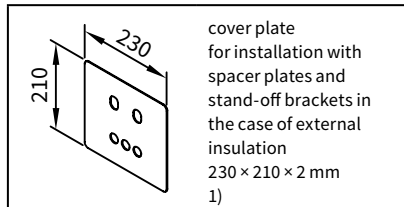
1)

77968.

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

210 × 230 × 2 mm

1)

71844.

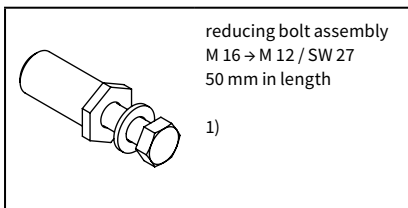
cover plate
for installation with
spacer plates and
stand-off brackets in
the case of external
insulation

230 × 210 × 2 mm

1)

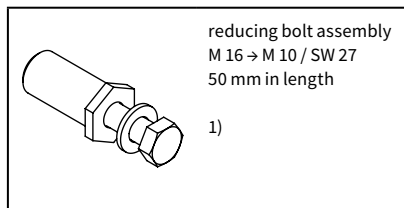
71843.

Accessories



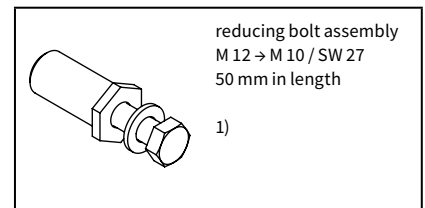
reducing bolt assembly
M 16 → M 12 / SW 27
50 mm in length

1)

753891

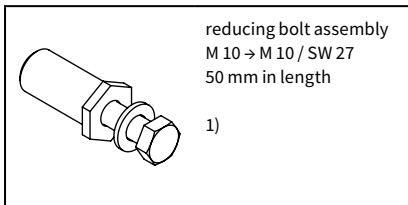
reducing bolt assembly
M 16 → M 10 / SW 27
50 mm in length

1)

754921

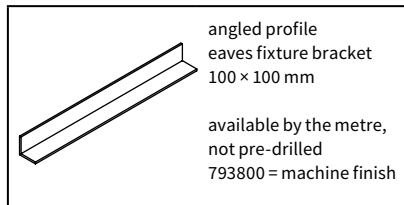
reducing bolt assembly
M 12 → M 10 / SW 27
50 mm in length

1)

754911

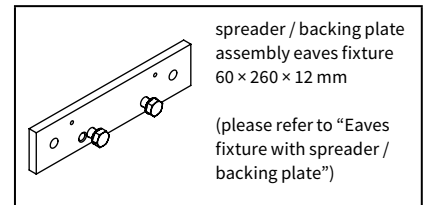
reducing bolt assembly
M 10 → M 10 / SW 27
50 mm in length

1)

754901

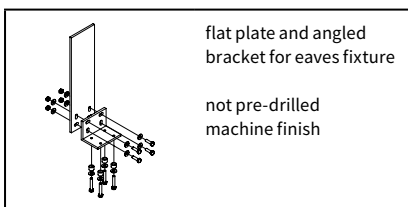
angled profile
eaves fixture bracket
100 × 100 mm

available by the metre,
not pre-drilled
793800 = machine finish

79380.

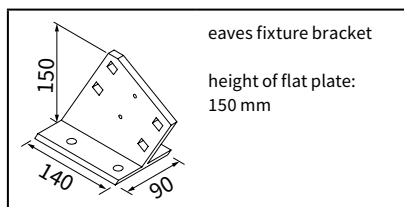
spreader / backing plate
assembly eaves fixture
60 × 260 × 12 mm

(please refer to "Eaves
fixture with spreader /
backing plate")

75383.

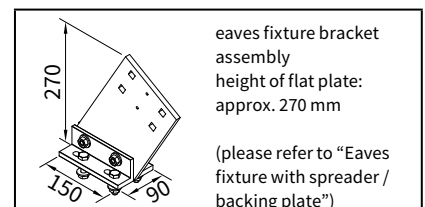
flat plate and angled
bracket for eaves fixture

not pre-drilled
machine finish

716620

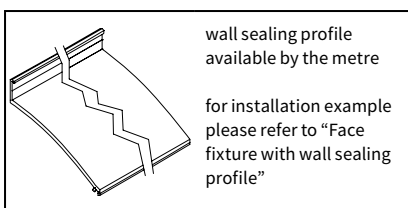
eaves fixture bracket

height of flat plate:
150 mm

71612.

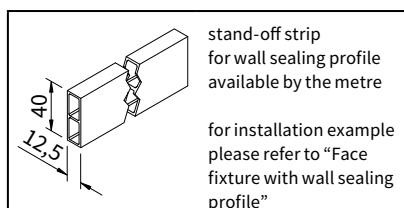
eaves fixture bracket
assembly
height of flat plate:
approx. 270 mm

(please refer to "Eaves
fixture with spreader /
backing plate")

71659.

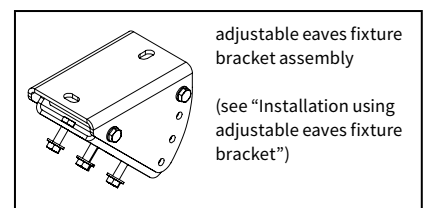
wall sealing profile
available by the metre

for installation example
please refer to "Face
fixture with wall sealing
profile"

77780.

stand-off strip
for wall sealing profile
available by the metre

for installation example
please refer to "Face
fixture with wall sealing
profile"

751971

adjustable eaves fixture
bracket assembly

(see "Installation using
adjustable eaves fixture
bracket")

71198.

1) please refer to the section "Technical Information"

. = insert RAL colour code no

Face fixture

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

Compression-proof substrate
M [cm]

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
|-----|-----|-----|-----|-----|-----|-----|-----|

Non compression-proof substrate
M [cm]

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
|-----|-----|-----|-----|-----|-----|-----|-----|

| H [cm] | FB [N] | | | | | | | |
|--------|--------|-----|-----|------|------|------|------|---|
| 150 | 270 | 297 | - | - | - | - | - | - |
| 200 | - | 504 | 548 | 592 | - | - | - | - |
| 250 | - | - | 783 | 848 | 912 | - | - | - |
| 300 | - | - | - | 1147 | 1236 | 1413 | - | - |
| 350 | - | - | - | - | 1669 | 1902 | 2135 | - |

| H [cm] | FB [N] | | | | | | | |
|--------|--------|-----|------|------|------|------|------|---|
| 150 | 387 | 426 | - | - | - | - | - | - |
| 200 | - | 722 | 785 | 849 | - | - | - | - |
| 250 | - | - | 1123 | 1215 | 1308 | - | - | - |
| 300 | - | - | - | 1644 | 1771 | 2025 | - | - |
| 350 | - | - | - | - | 2392 | 2726 | 3061 | - |

| | |
|----------|------------|
| HT BHT | 2 100 mm |
|----------|------------|

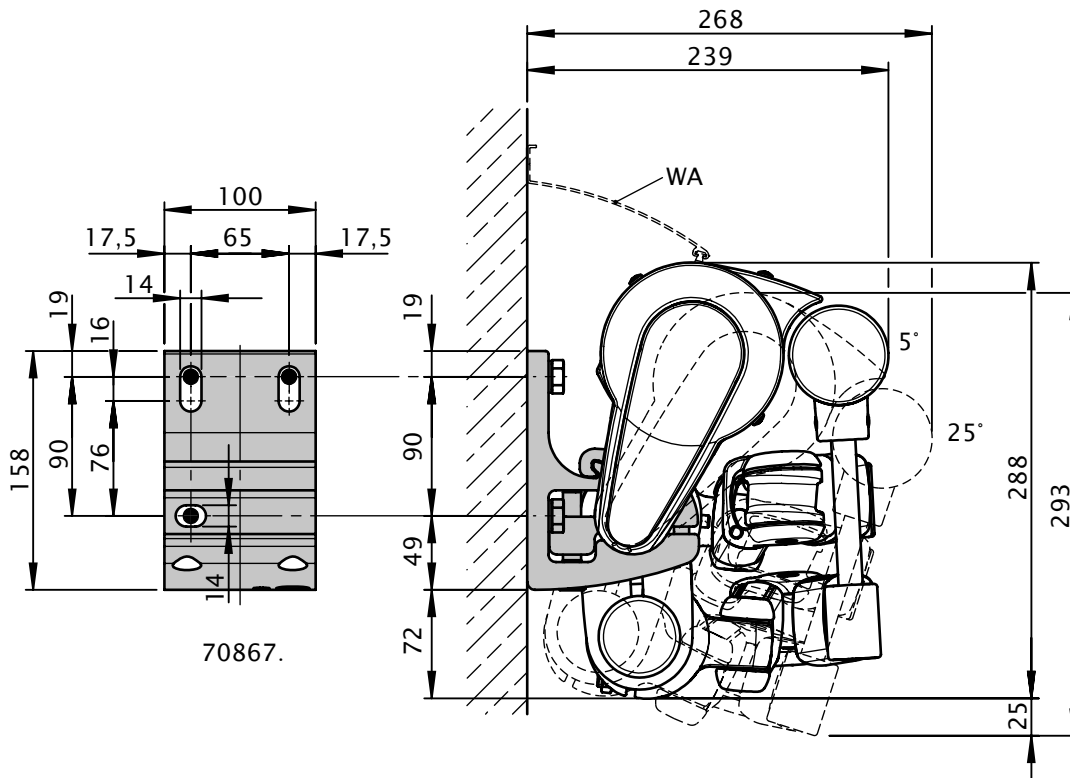
| | |
|----------|------------|
| HT BHT | 2 100 mm |
|----------|------------|

| | |
|----|---|
| BM | 6 |
|----|---|

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

- M = awning width
- H = projection
- FB = pull-out force per fixing point
- HT | BHT = bracket quantity | width
- BM = no. of fixing points
- WA = wall sealing profile
- 70867. = face fixture bracket assembly 100 mm



dimensions in mm

Face fixture with spreader plate A

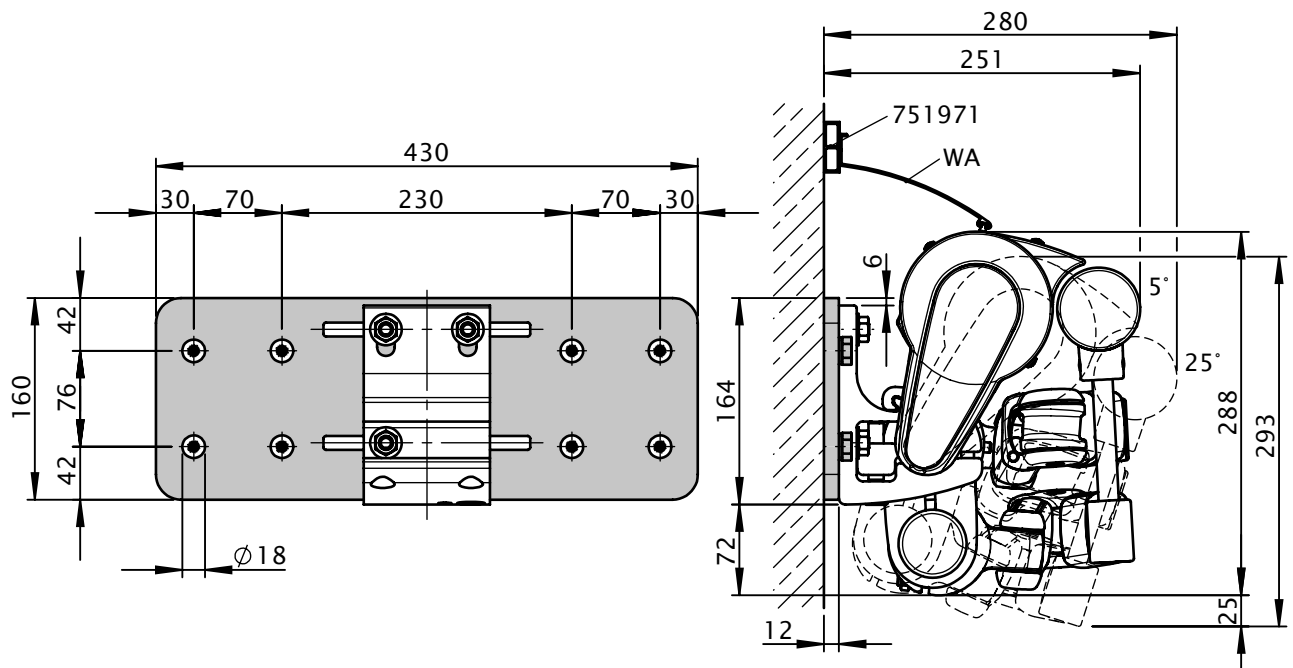
Pull-out force [N=Newton] per upper fixing point according to EN 13561, wind resistance class 2

| Compression-proof substrate | | | | | | | | | Non compression-proof substrate | | | | | | | | |
|-----------------------------|------------|-----|-----|-----|------|------|------|-----|---------------------------------|-----|-----|------|------|------|------|-----|-----|
| M [cm] | | | | | | | | | M [cm] | | | | | | | | |
| H [cm] | | | | | | | | | H [cm] | | | | | | | | |
| FB [N] | | | | | | | | | FB [N] | | | | | | | | |
| | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 | | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
| 150 | 179 | 198 | - | - | - | - | - | - | 255 | 281 | - | - | - | - | - | - | - |
| 200 | - | 328 | 357 | 386 | - | - | - | - | - | 466 | 508 | 549 | - | - | - | - | - |
| 250 | - | - | 504 | 546 | 588 | - | - | - | - | - | 716 | 775 | 835 | - | - | - | - |
| 300 | - | - | - | 731 | 788 | 902 | - | - | - | - | - | 1039 | 1120 | 1282 | - | - | - |
| 350 | - | - | - | - | 1056 | 1204 | 1353 | - | - | - | - | - | 1500 | 1711 | 1923 | - | - |
| 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 fixture points of **76 mm**.

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

- M = awning width
- H = projection
- FB = pull-out force per fixing point
- HT | BHT = bracket quantity | width
- BP = no. of spreader plates
- BM = no. of fixing points
- WA = wall sealing profile
- 751971 = stand-off strip for wall sealing profile



dimensions in mm

Face fixture with spreader plate B

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

Compression-proof substrate
M [cm]

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
|-----|-----|-----|-----|-----|-----|-----|-----|

Non compression-proof substrate
M [cm]

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
|-----|-----|-----|-----|-----|-----|-----|-----|

| H [cm] | FB [N] | | | | | | | |
|--------|--------|-----|-----|-----|-----|-----|-----|---|
| 150 | 97 | 106 | - | - | - | - | - | - |
| 200 | - | 180 | 196 | 211 | - | - | - | - |
| 250 | - | - | 279 | 302 | 325 | - | - | - |
| 300 | - | - | - | 408 | 440 | 503 | - | - |
| 350 | - | - | - | - | 593 | 676 | 759 | - |

| H [cm] | FB [N] | | | | | | | |
|--------|--------|-----|-----|-----|-----|-----|-----|---|
| 150 | 101 | 111 | - | - | - | - | - | - |
| 200 | - | 188 | 204 | 220 | - | - | - | - |
| 250 | - | - | 291 | 315 | 339 | - | - | - |
| 300 | - | - | - | 426 | 459 | 524 | - | - |
| 350 | - | - | - | - | 619 | 705 | 792 | - |

| | |
|-----------------|------------|
| HT BHT | 2 100 mm |
|-----------------|------------|

| | |
|--|------------|
| | 2 100 mm |
|--|------------|

| | |
|-----------|---|
| BP | 2 |
|-----------|---|

| | |
|--|---|
| | 2 |
|--|---|

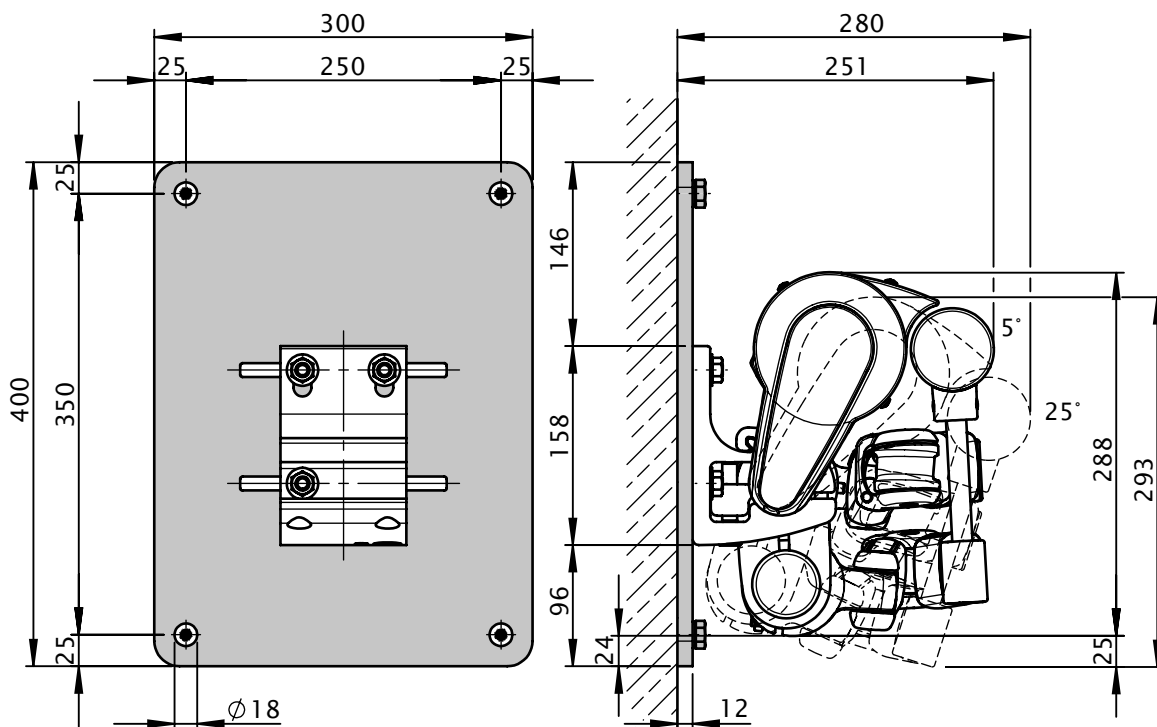
| | |
|-----------|---|
| BM | 8 |
|-----------|---|

| | |
|--|---|
| | 8 |
|--|---|

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

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

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



dimensions in mm

Face fixture with stand-off brackets

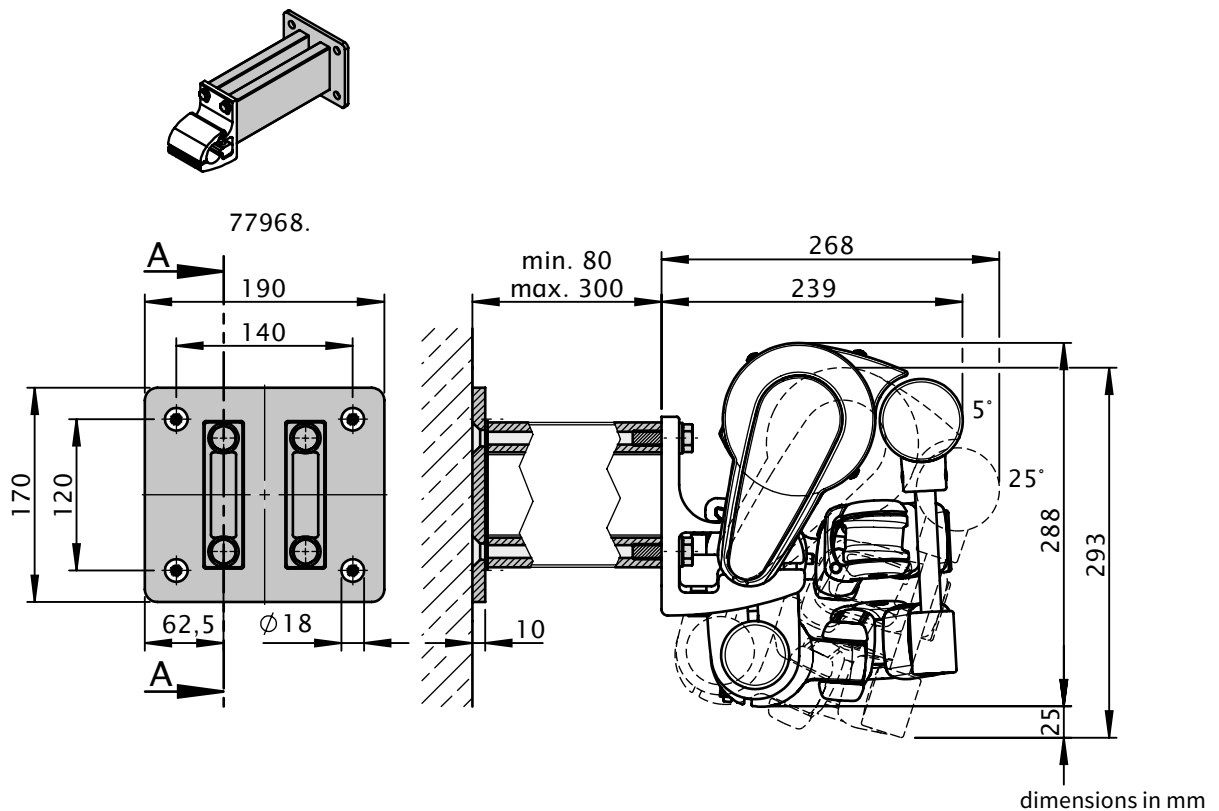
Pull-out force [N=Newton] per upper fixing point according to EN 13561, wind resistance class 2

| Compression-proof substrate | | | | | | | | | Non compression-proof substrate | | | | | | | | |
|---------------------------------|------------|-----|-----|------|------|------|------|---|---------------------------------|--------|------|------|------|------|------|---|--|
| M [cm] | | | | | | | | | M [cm] | | | | | | | | |
| 150 175 200 225 250 300 350 400 | | | | | | | | | 150 175 200 225 250 300 350 400 | | | | | | | | |
| H [cm] | FB [N] | | | | | | | | H [cm] | FB [N] | | | | | | | |
| 150 | 342 | 376 | - | - | - | - | - | - | 385 | 423 | - | - | - | - | - | - | |
| 200 | - | 604 | 656 | 709 | - | - | - | - | - | 680 | 738 | 797 | - | - | - | - | |
| 250 | - | - | 904 | 978 | 1052 | - | - | - | - | - | 1017 | 1100 | 1183 | - | - | - | |
| 300 | - | - | - | 1289 | 1388 | 1586 | - | - | - | - | - | 1450 | 1562 | 1785 | - | - | |
| 350 | - | - | - | - | 1839 | 2095 | 2351 | - | - | - | - | - | 2069 | 2357 | 2645 | - | |
| 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 fixture points of **120 mm**.

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

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



Top fixture

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

Compression-proof substrate
M [cm]

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
|-----|-----|-----|-----|-----|-----|-----|-----|

| H [cm] | FB [N] | | | | | | | |
|--------|--------|-----|-----|------|------|------|------|---|
| 150 | 345 | 383 | - | - | - | - | - | - |
| 200 | - | 619 | 675 | 732 | - | - | - | - |
| 250 | - | - | 944 | 1024 | 1104 | - | - | - |
| 300 | - | - | - | 1366 | 1473 | 1688 | - | - |
| 350 | - | - | - | - | 1968 | 2246 | 2525 | - |

Non compression-proof substrate
M [cm]

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
|-----|-----|-----|-----|-----|-----|-----|-----|

| H [cm] | FB [N] | | | | | | | |
|--------|--------|-----|------|------|------|------|------|---|
| 150 | 472 | 523 | - | - | - | - | - | - |
| 200 | - | 856 | 934 | 1011 | - | - | - | - |
| 250 | - | - | 1313 | 1423 | 1533 | - | - | - |
| 300 | - | - | - | 1906 | 2055 | 2354 | - | - |
| 350 | - | - | - | - | 2753 | 3142 | 3531 | - |

| | |
|----------|-----------|
| HT BHT | 2 90 mm |
|----------|-----------|

| | |
|--|-----------|
| | 2 90 mm |
|--|-----------|

| | |
|----|---|
| BM | 8 |
|----|---|

| | |
|--|---|
| | 8 |
|--|---|

The pull-out force refers to the vertical centre to centre measurement between the fixture points of **80 mm**. If the awning is fitted with two brackets per folding arm the pull-out force may be halved.

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

M = awning width

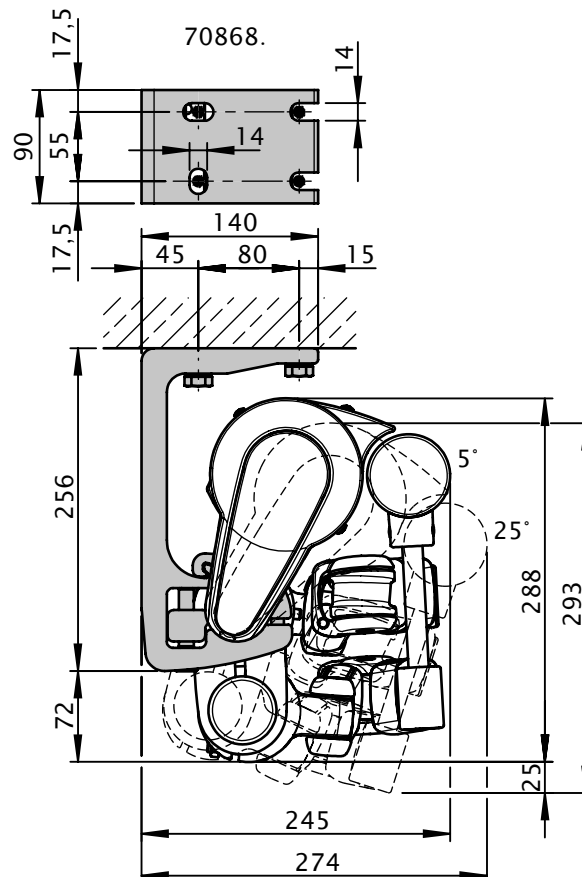
BM = no. of fixing points

H = projection

70868. = top fixture bracket assembly 90 mm

FB = pull-out force per fixing point

HT | BHT = bracket quantity | width



dimensions in mm

Eaves fixture

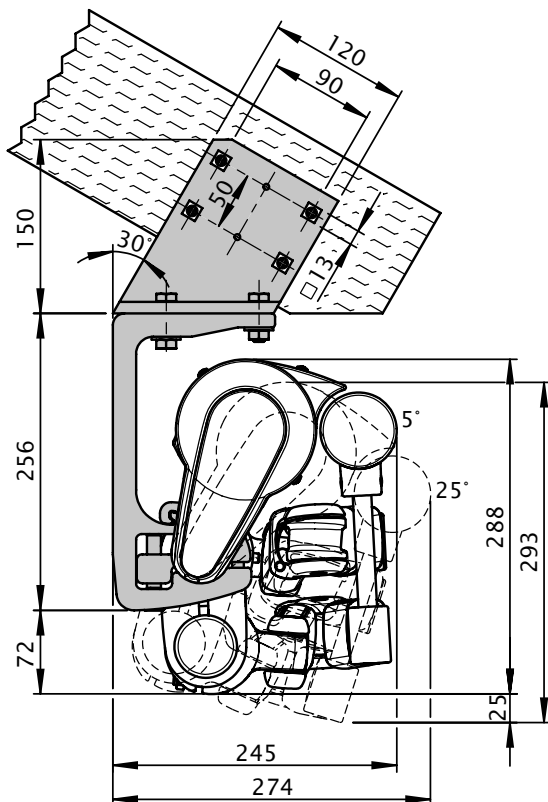
Torque [Nm = Newton metres] for the fixture bracket next to the arm, shear force [N = Newton] per fixing point according to EN 13561, wind resistance class 2

| H [cm] | Torque M [cm] | | | | | | | | Shear force M [cm] | | | | | | | |
|--------|------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|------|------|------|------|------|------|-----|
| | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
| | Md [Nm] | | | | | | | | FS [N] | | | | | | | |
| 150 | 70 | 77 | - | - | - | - | - | - | 848 | 939 | - | - | - | - | - | - |
| 200 | - | 130 | 141 | 153 | - | - | - | - | - | 1532 | 1671 | 1810 | - | - | - | - |
| 250 | - | - | 202 | 219 | 235 | - | - | - | - | - | 2345 | 2543 | 2740 | - | - | - |
| 300 | - | - | - | 296 | 319 | 365 | - | - | - | - | - | 3401 | 3667 | 4201 | - | - |
| 350 | - | - | - | - | 431 | 491 | 551 | - | - | - | - | - | 4909 | 5603 | 6296 | - |
| HT | 2 | | | | | | | | 2 | | | | | | | |
| BM | 8 | | | | | | | | 8 | | | | | | | |

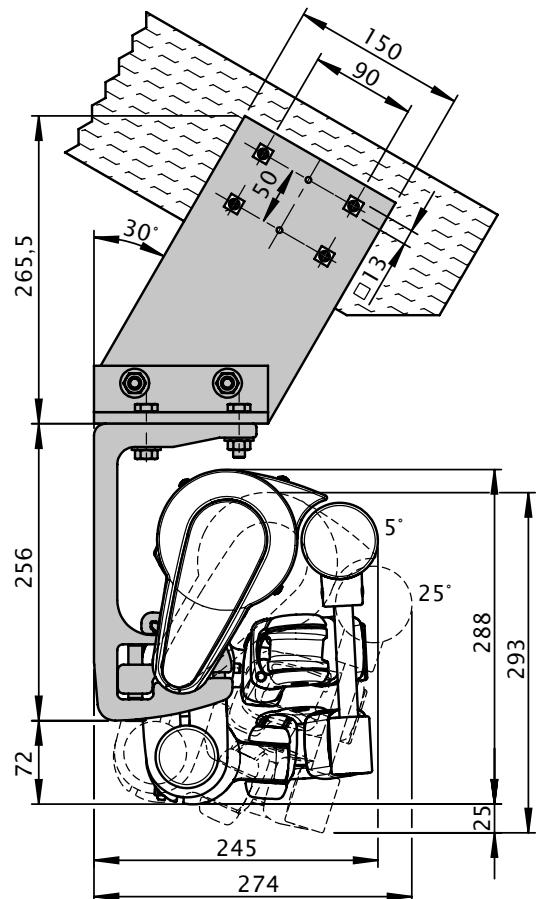
The shear force is calculated on the basis of 2 fixing points per bracket, because – depending on the roof pitch – it cannot be guaranteed that 4 fixing points per bracket can be used.

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

with eaves fixture bracket 150 mm



with eaves fixture bracket 270 mm



dimensions in mm

01
02
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04
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22
23

Eaves fixture with additional spreader / backing plate

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

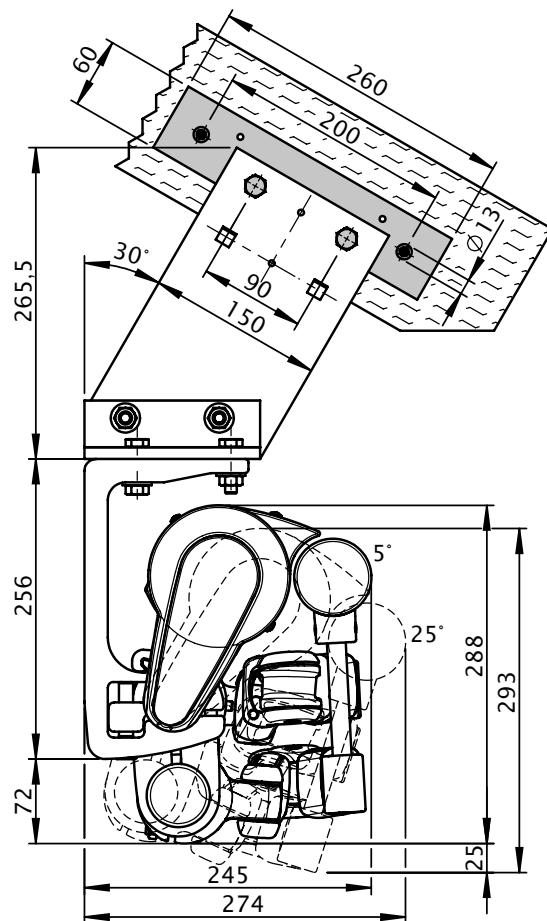
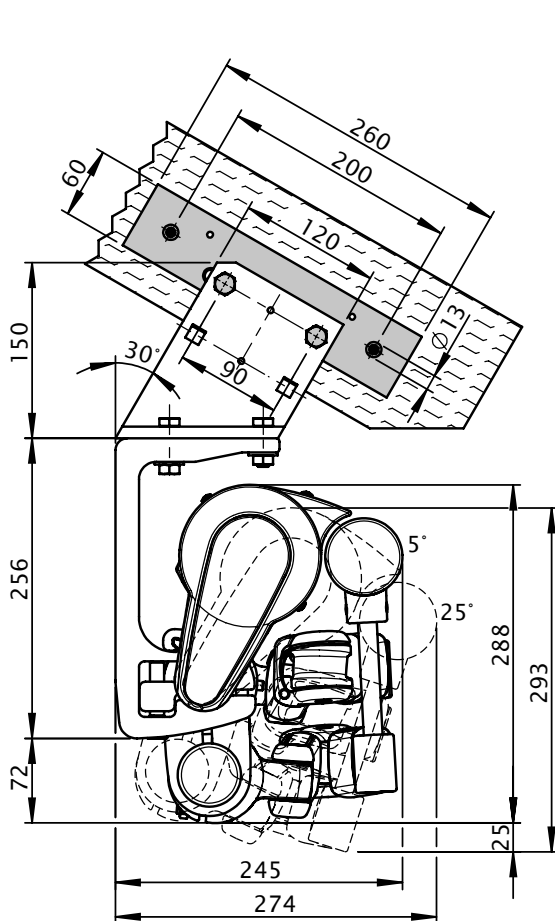
| H [cm] | Torque M [cm] | | | | | | | | Shear force M [cm] | | | | | | | |
|-----------|------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----|------|------|------|------|------|-----|
| | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 |
| | Md [Nm] | | | | | | | | FS [N] | | | | | | | |
| 150 | 70 | 77 | - | - | - | - | - | - | 423 | 471 | - | - | - | - | - | - |
| 200 | - | 130 | 141 | 153 | - | - | - | - | - | 737 | 807 | 876 | - | - | - | - |
| 250 | - | - | 202 | 219 | 235 | - | - | - | - | - | 1110 | 1206 | 1302 | - | - | - |
| 300 | - | - | - | 296 | 319 | 365 | - | - | - | - | - | 1592 | 1719 | 1973 | - | - |
| 350 | - | - | - | - | 431 | 491 | 551 | - | - | - | - | - | 2278 | 2604 | 2930 | - |
| 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 = awning width
- H = projection
- Md = torque value for the bracket in the immediate vicinity of the arm
- HT = no. of brackets
- FS = shear force
- BM = no. of fixing points

with eaves fixture bracket 150 mm

with eaves fixture bracket 270 mm



dimensions in mm

Installation using the adjustable eaves fixture bracket

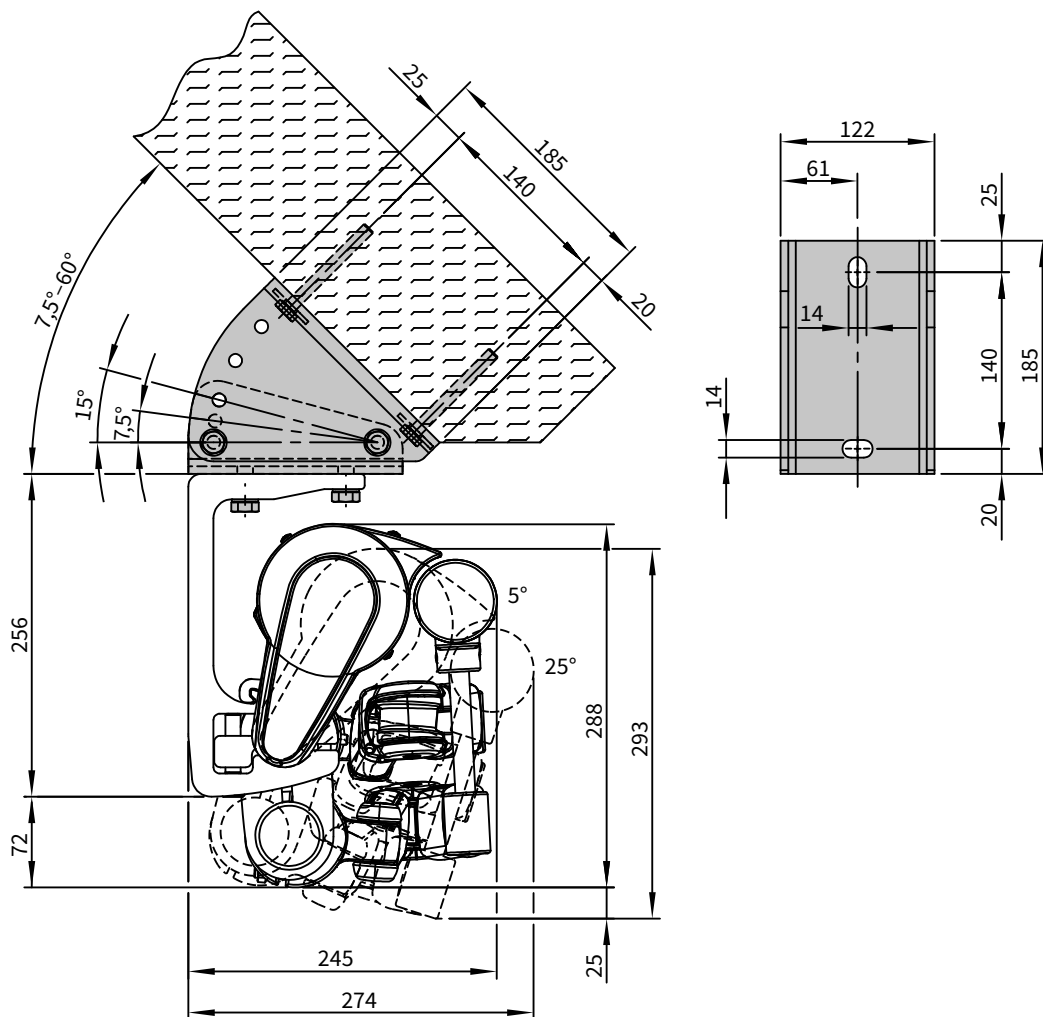
Pull-out force [N=Newton] per upper fixing point according to EN 13561, wind resistance class 2

| Compression-proof substrate | | | | | | | | | Non compression-proof substrate | | | | | | | | |
|-----------------------------|-----------|-----|------|------|------|------|------|---|---------------------------------|-----|------|------|------|------|------|------|---|
| M [cm] | | | | | | | | | M [cm] | | | | | | | | |
| H [cm] | | | | | | | | | H [cm] | | | | | | | | |
| FB [N] | | | | | | | | | FB [N] | | | | | | | | |
| 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 | | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 | |
| 150 | 555 | 616 | - | - | - | - | - | - | 150 | 572 | 635 | - | - | - | - | - | - |
| 200 | - | 984 | 1075 | 1166 | - | - | - | - | 200 | - | 1016 | 1110 | 1204 | - | - | - | - |
| 250 | - | - | 1493 | 1621 | 1748 | - | - | - | 250 | - | - | 1543 | 1675 | 1806 | - | - | - |
| 300 | - | - | - | 2153 | 2324 | 2664 | - | - | 300 | - | - | - | 2226 | 2402 | 2754 | - | - |
| 350 | - | - | - | - | 3094 | 3534 | 3974 | - | 350 | - | - | - | - | 3200 | 3655 | 4110 | - |
| HT BHT | 2 90 mm | | | | | | | | 2 90 mm | | | | | | | | |
| BM | 8 | | | | | | | | 8 | | | | | | | | |

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

Washers conforming to DIN 9021 must be used.

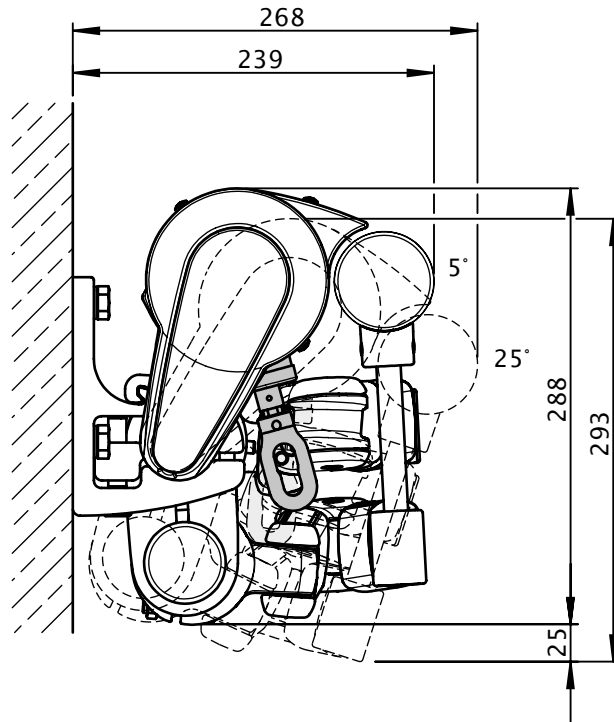
- M = awning width
- H = projection
- FB = pull-out force per fixing point
- HT | BHT = bracket quantity | width
- BM = no. of fixing points



dimensions in mm

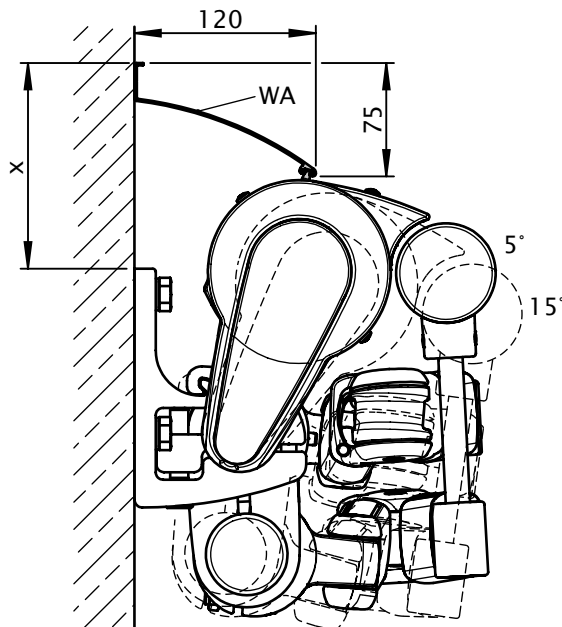
- 01
- 02
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- 11
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- 13
- 14
- 15
- 16
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- 18
- 19
- 20
- 21
- 22
- 23

Face fixture with manual operation



dimensions in mm

Face fixture with wall sealing profile



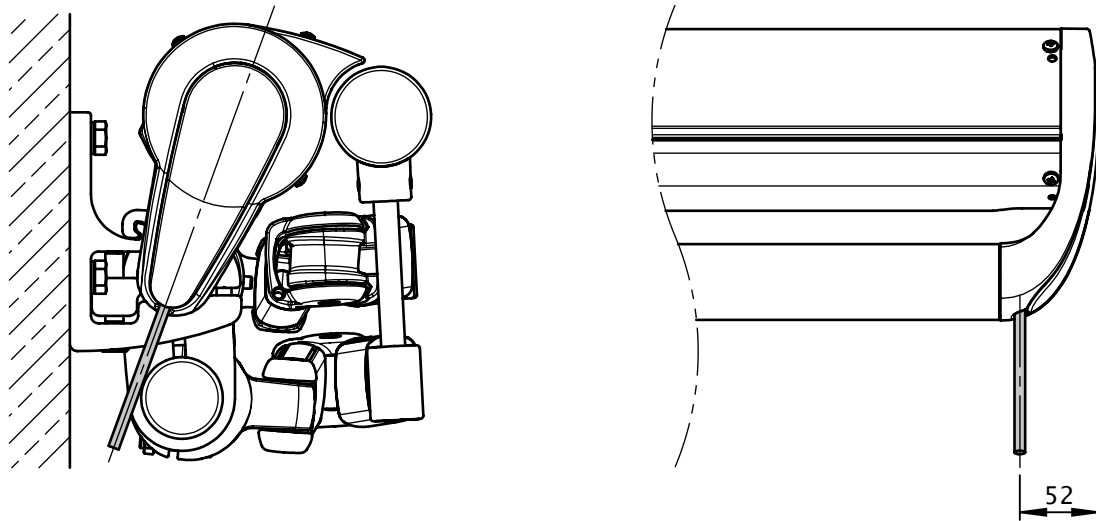
| awning pitch | X |
|--------------|--------|
| 5° | 136 mm |
| 10° | 132 mm |
| 15° | 127 mm |
| 20° | — |
| 25° | — |

WA = wall sealing profile

X = distance upper edge face fixture bracket to upper edge wall sealing profile

dimensions in mm

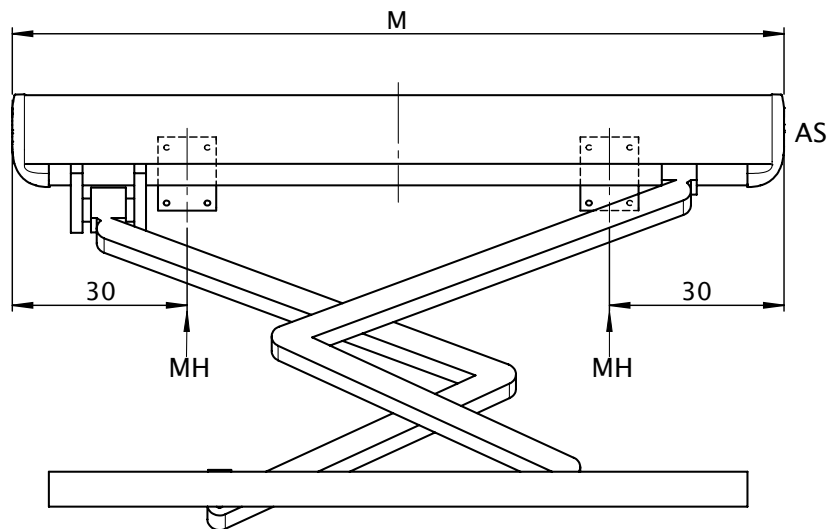
Cable exit position in motor-driven units



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- 09
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- 14
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- 18
- 19
- 20
- 21
- 22
- 23

dimensions in mm

Bracket fixture range for awnings with 2 folding arms



dimensions in cm

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

- AS = drive side
- M = awning width
- MH = bracket centre