

Markilux 990 Technical Brochure



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MON - FRI 8:30AM - 5:30PM**



Cassette awning

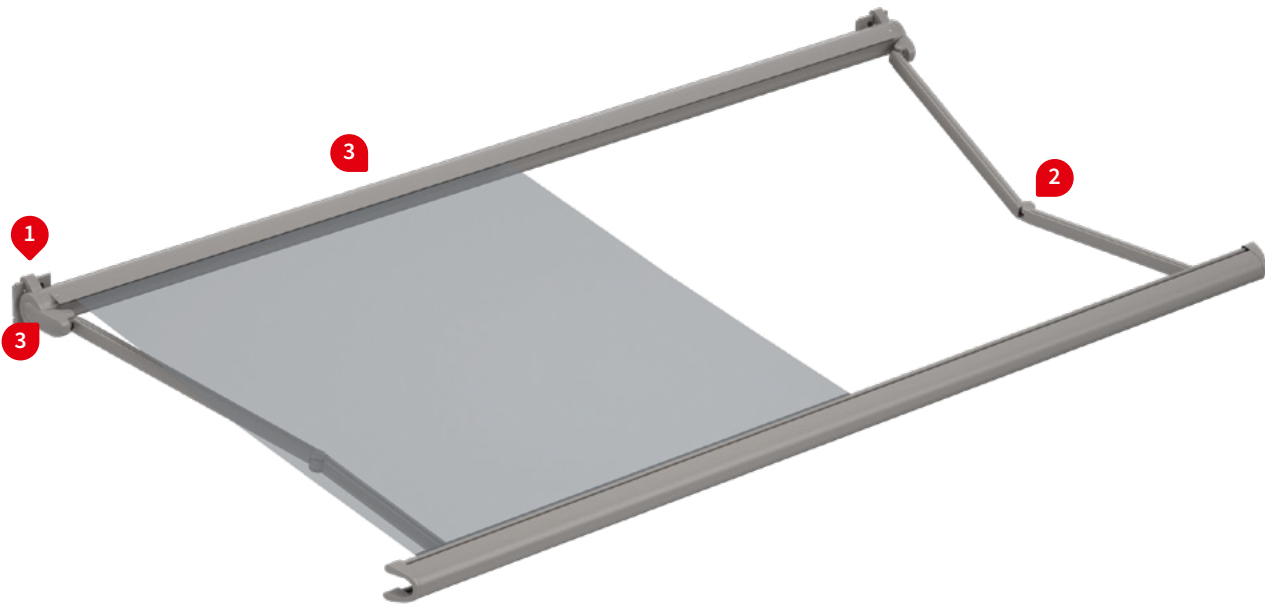
markilux 990

The most compact markilux with folding arms – svelte, attractive and functional.

Product characteristics

Wind resistance class 2

Beaufort 5 → 7.5–10.4 m/s → 28–37 km/h → 17–23 mph



1 face fixture



1 face fixture,
maximum pitch of 35°



1 top fixture



1 top fixture,
view from the rear



2 twin steel-link chains, corrosion
protected



2 bionic tendon made of high-tech fibres
for optimum power transference ¹⁾



● during extension



3 wall sealing profile ¹⁾,
cassette end cap in polished chrome



1) optional configuration

Product characteristics

Description

- the perfectly designed compact cassette awning. The outstanding “lightweight” for balcony and patio

Special features

- self-supporting cassette profile construction, the brackets being installed at each end of the awning – also suitable for bridging larger distances
- cassette with arms situated in front and at each end, which – when the awning is closed – are encompassed fully by the front profile lending a harmonious overall appearance to the awning
- even when the awning is fully extended, the roller tube is completely protected

Dimensions

- cassette in the standard version: depth 217 mm, height 124 mm
- single unit: minimum width 179 cm at the smallest projection of 150 cm, maximum width 500 cm at the largest projection of 300 cm

Roller tube and lateral bearings

- round roller tube Ø 85 mm with keyway, galvanised steel – excellent stability, ensures near perfect cover performance even at the largest widths
- the arm bearer is made of die-cast aluminium, powder coated, with integrated, infinitely variable pitch setting mechanism

Awning profiles

- extruded aluminium, in façade quality, powder coated
- cassette in two parts
- semi-circular front profile with integrated gutter

Folding arms

- profiles in extruded aluminium, in façade quality, powder coated
- moving parts made of drop-forged aluminium – the arms are therefore extremely fracture resistant
- pivot bolts in stainless steel run in Teflon-coated bronze bushes – practically maintenance free, virtually silent and extremely hard wearing
- power transference via corrosion-protected twin steel-link chains at the elbow joint, optionally with innovative bionic tendon made of high tensile, high-tech fibre – low in friction, noiseless, insensitive to corrosion and UV resistant

Side caps

- the cassette insert sections are made of high-quality plastic, powder coated or in a polished chrome finish
- the front profile end caps are made of high-quality plastic, powder coated, with water drainage holes

Fixture brackets

- face fixture, top fixture, eaves fixture
- extruded aluminium, powder coated
- also available in individual widths (on request)
- pitch range 5°–35° (face fixture), 5°–70° (top or eaves fixture)
- spacer plates, stand-off brackets and other accessories are available

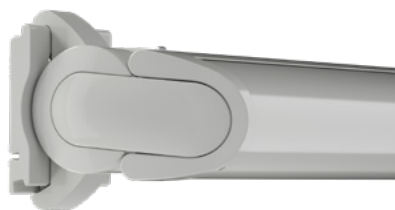
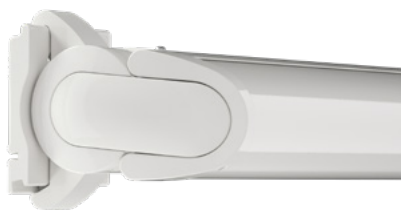
01 Frame and end cap colours

markilux awning colours without surcharge

02 traffic white RAL 9016

metallic aluminium RAL 9006

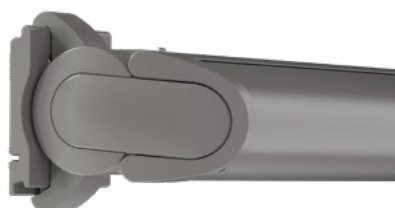
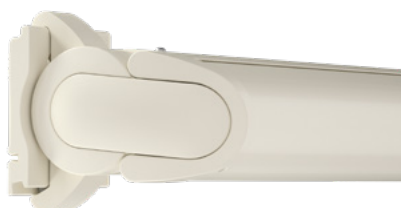
grey brown, similar to RAL 8019



07 off-white textured finish, 5233 ¹⁾

stone grey metallic, 5215 ¹⁾

anthracite metallic, 5204 ¹⁾



09

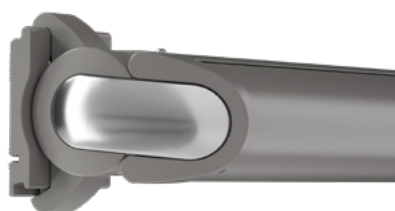
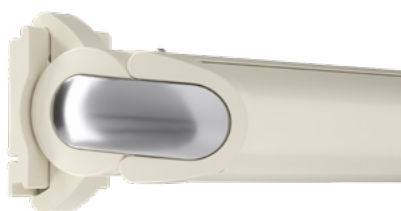
11 Havana brown textured finish, 5229 ¹⁾



17 off-white textured finish 5233 ¹⁾
end cap insert in polished chrome

stone grey metallic 5215 ¹⁾
end cap insert in polished chrome

anthracite metallic 5204 ¹⁾
end cap insert in polished chrome



Combination options – possible in any frame colour.

Non-standard powder-coated finish

Bespoke frame colours incur a surcharge – matt, metallic, finely textured and pearl finishes as well as other colour ranges (DB, Tiger etc.) on request. All frame colours are available at a surcharge with enhanced corrosion protection.

¹⁾ textured finish

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

Dimensions and configuration options

Single unit

		Awning width						Minimum width	
		250	300	350	400	450	500	Motor	Crank handle
		179	251	301	351	401	451		
Order dimensions		250	300	350	400	450	500		
H	150	1)						179	179
	200	1)						229	229
	250	—	1)					279	279
	300	—	—	1)				329	329

dimensions in cm

1) = please note the minimum widths!

H = projection

 = 2 standard arms, 2 fixture brackets

Operation

standard optional

manual operation	✓	—
spring-assisted crank handle	—	✓
hard-wired motor	—	✓
silentec motor (optionally with an external io / RTS receiver)	—	—
radio-controlled motor io, 868 MHz	—	✓
radio-controlled motor RTS, 433 MHz	—	✓
radio-controlled motor RTS, 433 MHz with manual override	—	✓

Coupled Awning

not available

Awning cover

fabric range no.

standard optional

sunvas	301.. / 309..–315..	✓	—
perla	370 ..	—	✓
sunsilk	324.. / 325.. / 328.. / 369..	✓	—
perla FR	374.. / 375..	—	✓
perfotex	331.. / 332..	—	—
transolair	338..	—	—
vuscreen Alu	317..	—	—
Soltis Perform 92	92-20..	—	—
glass fibre screen	272..	—	—
valance, height 20 cm		—	✓

Shadeplus / drop valance

not available

01	Optional accessories
02	folding-arm technology with bionic tendon
03	valance
04	wall sealing profile, up to a pitch of 35°
05	infrared heater 2500 W
06	infrared heater 2500 W with integrated radio-controlled receiver 868 MHz io
07	LED spotline – light bar 110 × 70 mm with 5 W LED spotlights, width 180 cm / 3 spots or 300 cm / 5 spots
08	LED spotline io – light bar 110 × 70 mm with 5 W LED spotlights with integrated dimmable radio-controlled receiver, width 180 cm / 3 spots or 300 cm / 5 spots
09	automatic controls (light, wind, rain)
10	N.B! Important background information can be found in the chapter “Optional Accessories”.

Fixture options	
wall bracket 150 mm	71624.
face fixture bracket left	70617.
face fixture bracket right	70600.
spreader plate A face fixture	75326.
spreader plate B face fixture	75325.
markilux panel 250 × 230 × 49 mm	76308.
markilux panel continuous	76380.
stand-off bracket for face-fixture bracket 70617. and 70600.	77968.
top fixture bracket 150 mm	71625.
eaves fixture bracket 90 mm 150 mm plate	71612.
eaves fixture bracket 90 mm 270 mm plate	71659.
flat plate and angled bracket for eaves fixture , height of flat plate: 500 mm	716620
supplementary flat plate for eaves fixture 260 × 60 × 12 mm	75383.

No. of brackets | No. of fixing points

		Awning width					
		250	300	350	400	450	500
Order dimensions		179	251	301	351	401	451
		250	300	350	400	450	500
	BHT	No. of brackets No. of fixing points					
W	15	2 6					
BP		A 2 16 B 2 8					
PA		2 8					
DA / DE	15	2 8					

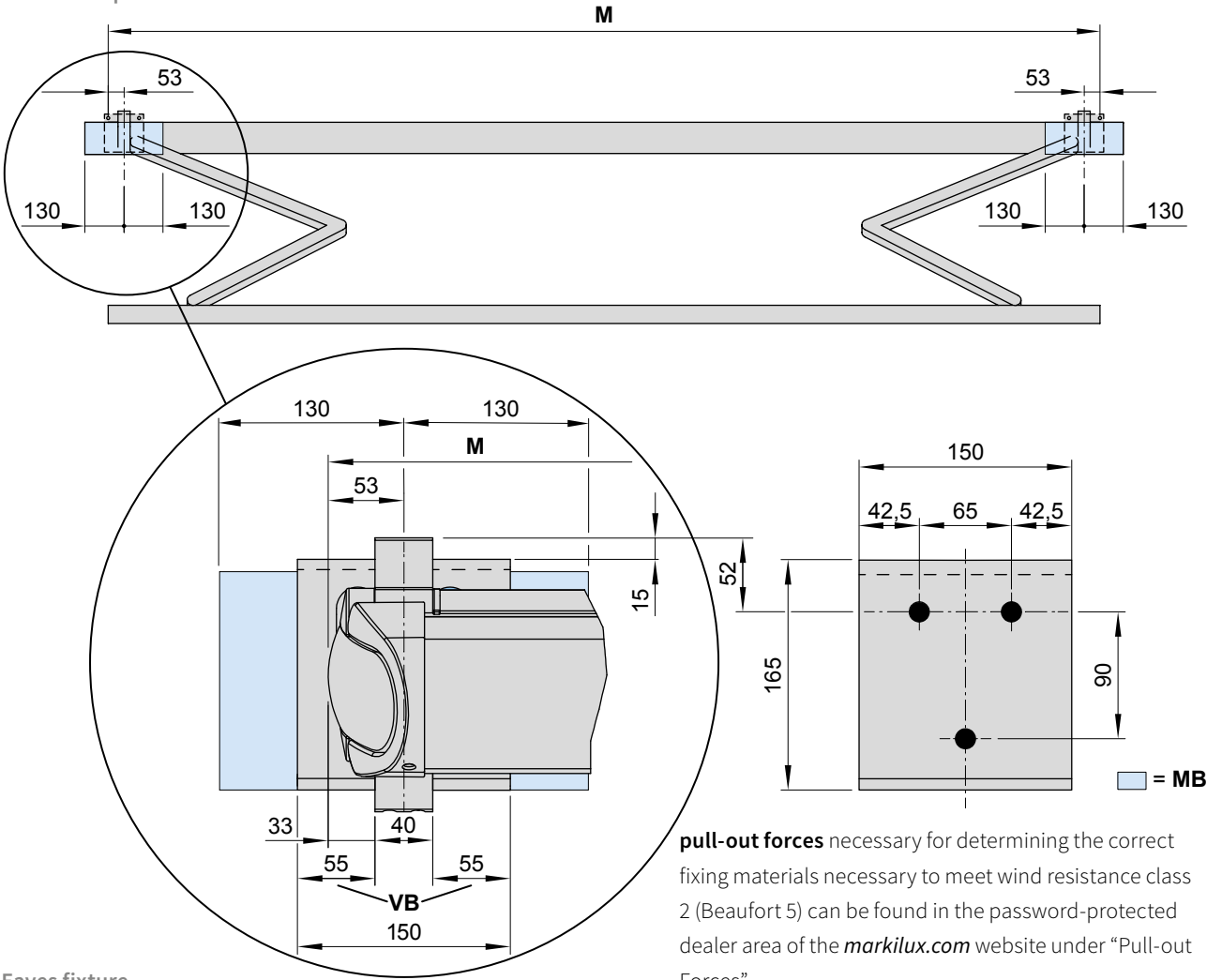
dimensions in cm

If the brackets cannot be positioned in accordance with this table, make sure the actual dimensions are noted on the order form!
The **pull-out forces** necessary for determining the correct fixing materials necessary to meet wind resistance class 2 (Beaufort 5) can be found in the password-protected dealer area of the *markilux.com* website under “Pull-out Forces”.

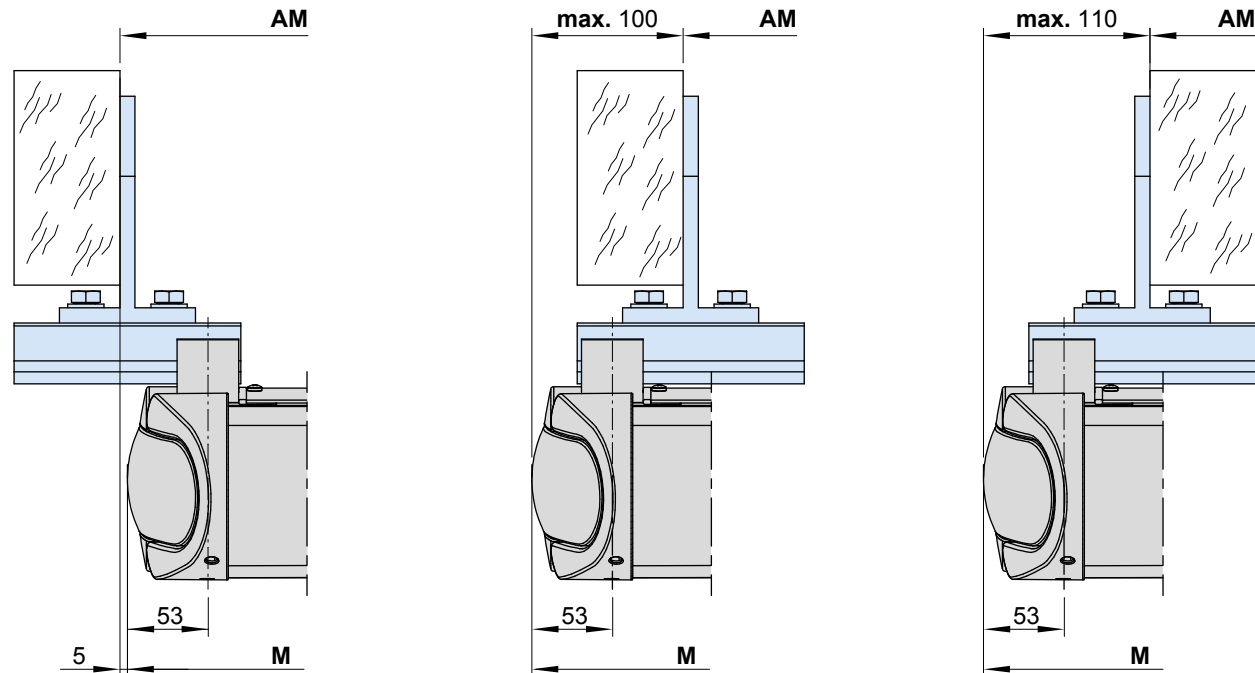
- A = arm position
- BHT = bracket width
- BP = spreader plate (A / B)
- DA = eaves fixture bracket
- DE = top fixture brackets
- H = order dimension = projection
- M = order dimension = awning width
- PA = markilux panel, fixture profile, width 250 mm
- W = face fixture bracket

Bracket fixture range

Face and top fixture



Eaves fixture



AM = installation dimensions

M = order dimension = awning width

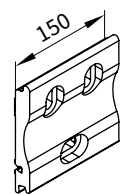
MB = bracket fixture range

VB = adjustment range face fixture bracket

dimensions in mm

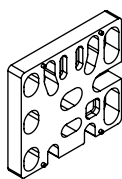
Face fixture

Fixtures, fittings and accessories



wall bracket
150 mm

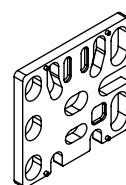
71624.



spacer plate for face
fixture
150 × 136 × 20 mm

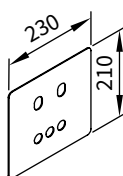
N.B!
Stack to a max. height of
200 mm

716331



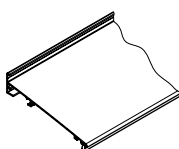
spacer plate for face
fixture
150 × 136 × 12 mm

71644.



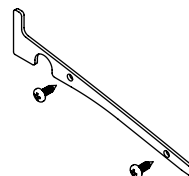
cover plate
for spacer plate
and stand-off brackets
in the case of external
insulation
230 × 210 × 2 mm

71843.



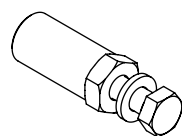
wall sealing profile
incl. brush seal
by the metre

76385. and 704241



side plate
and
2 fillister head self-tapping
screws

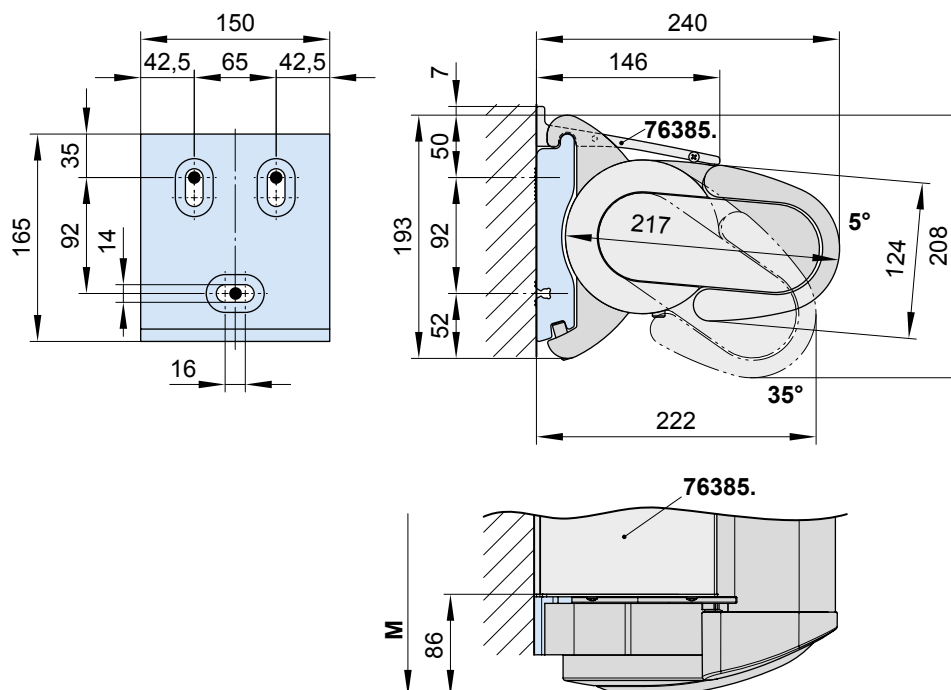
76465. and 2 × 735611



bolt reduction assembly
pack 10 pcs

M 16 → M 12 | M 16 → M 10 | M 12 → M 10 | M 10 → M 10

pull-out forces necessary for determining the correct fixing materials necessary to meet wind resistance class 2 (Beaufort 5) can be found in the password-protected dealer area of the markilux.com website under "Pull-out Forces".

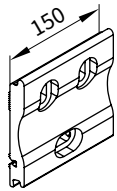
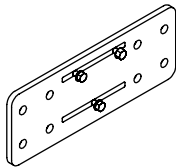
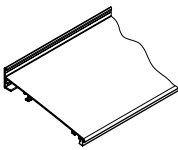
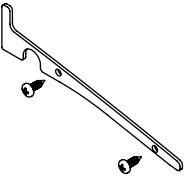
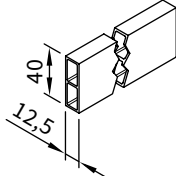
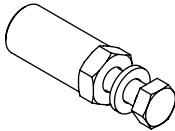


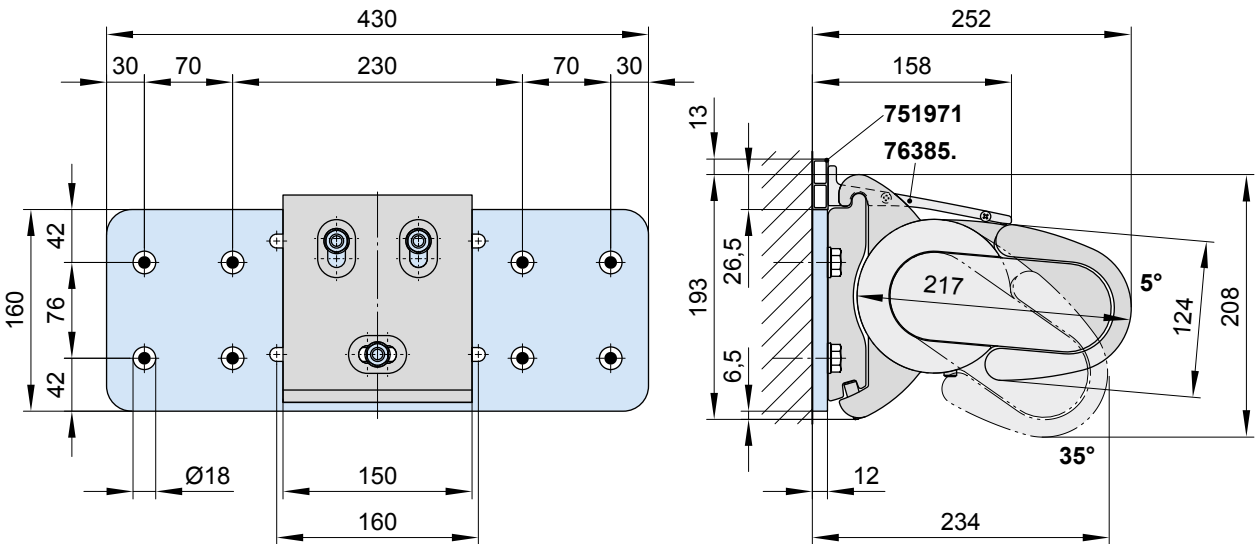
dimensions in mm

76385. = wall sealing profile (standard width = awning width (M) – 168 mm; up to a maximum awning pitch of 35°)

Face fixture with spreader plate A

Fixtures, fittings and accessories

 wall bracket 150 mm 71624.	 spreader plate A face fixture 430 × 160 × 12 mm 75326.	 wall sealing profile incl. brush seal by the metre 76385. and 704241
 side plate and 2 fillister head self-tapping screws 76465. and 2 × 735611	 stand-off strip for wall sealing profile available by the metre 751971	 bolt reduction assembly pack 10 pcs M 16 → M 12 M 16 → M 10 M 12 → M 10 M 10 → M 10

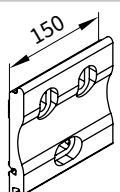
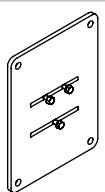
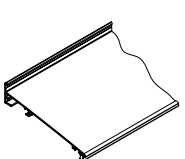
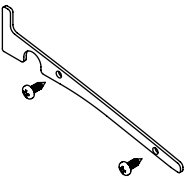
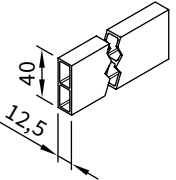
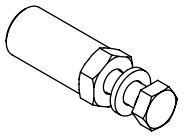


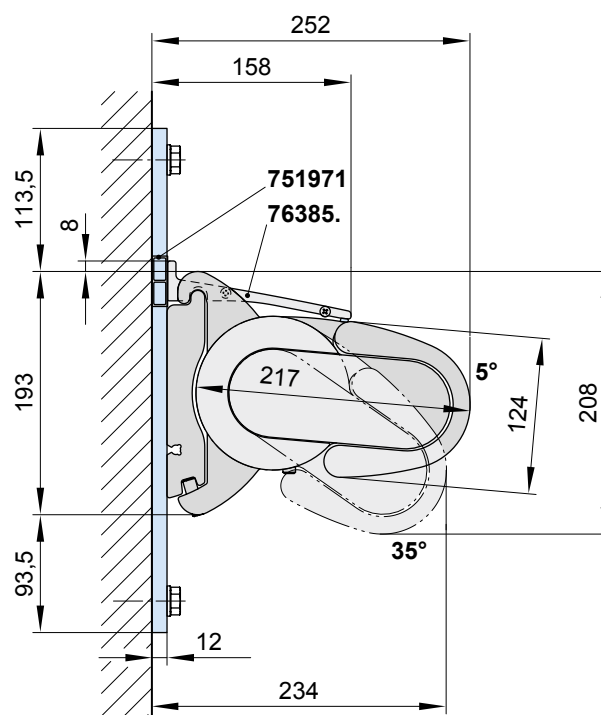
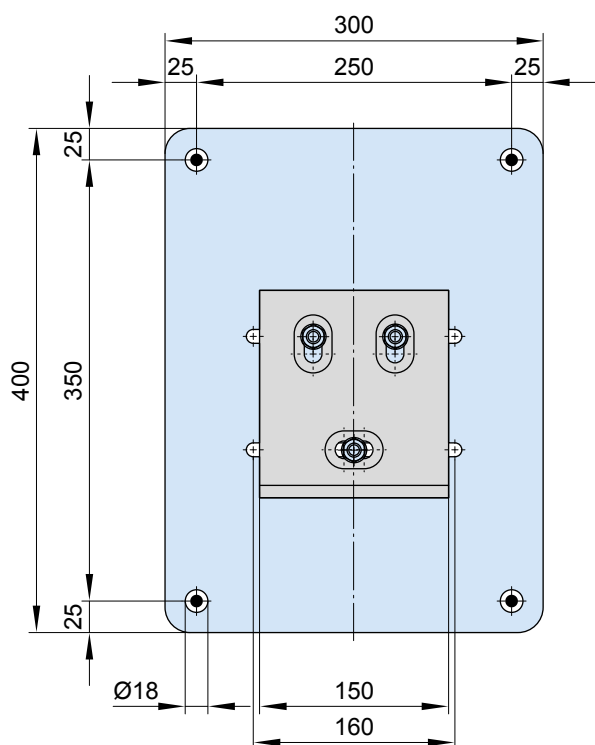
dimensions in mm

- 751971 = stand-off strip for wall sealing profil
76385. = wall sealing profile (standard width = awning width (M) – 168 mm; up to a maximum awning pitch of 35°)

Face fixture with spreader plate B

Fixtures, fittings and accessories

 wall bracket 150 mm 71624.	 spreader plate B face fixture 300 × 400 × 12 mm 75325.	 wall sealing profile incl. brush seal by the metre 76385. and 704241
 side plate and 2 fillister head self-tapping screws 76465. and 2 × 735611	 stand-off strip for wall sealing profile available by the metre 751971	 bolt reduction assembly pack 10 pcs M 16 → M 12 M 16 → M 10 M 12 → M 10 M 10 → M 10



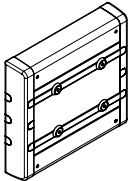
dimensions in mm

751971 = stand-off strip for wall sealing profil

76385. = wall sealing profile (standard width = awning width (M) – 168 mm; up to a maximum awning pitch of 35°)

Face fixture with markilux panel 250 mm

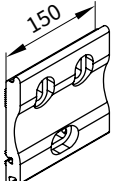
Fixtures, fittings and accessories



markilux panel
250 × 230 × 49 mm

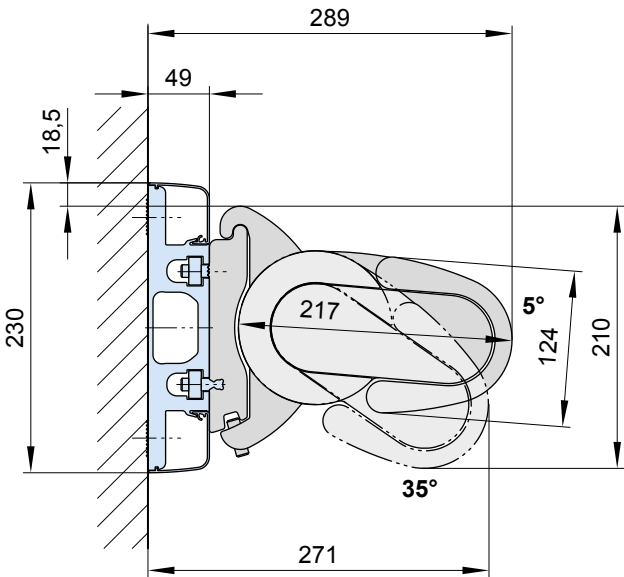
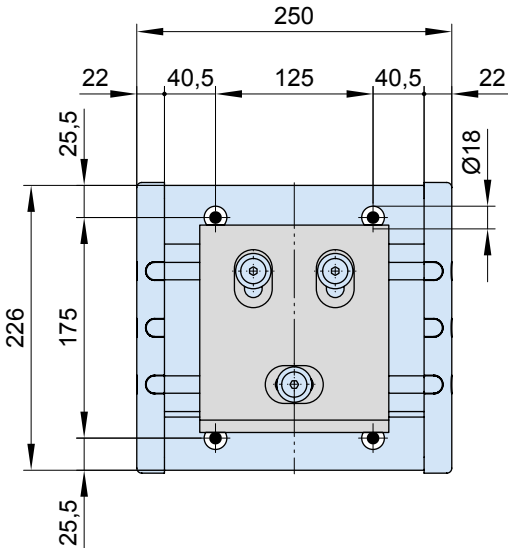
with decorative profiles
and end caps

76308.



wall bracket
150 mm

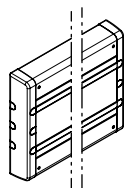
71624.



dimensions in mm

Face fixture with markilux panel continuous

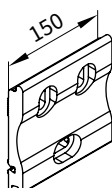
Fixtures, fittings and accessories



markilux panel
continuous

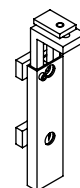
with decorative profiles
and end caps

76380.



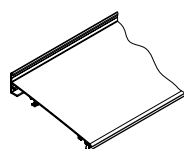
wall bracket
150 mm

71624.



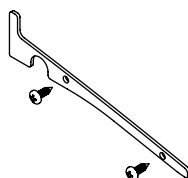
bracket
wall sealing profile

76387.



wall sealing profile
incl. brush seal
by the metre

76385. and 704241

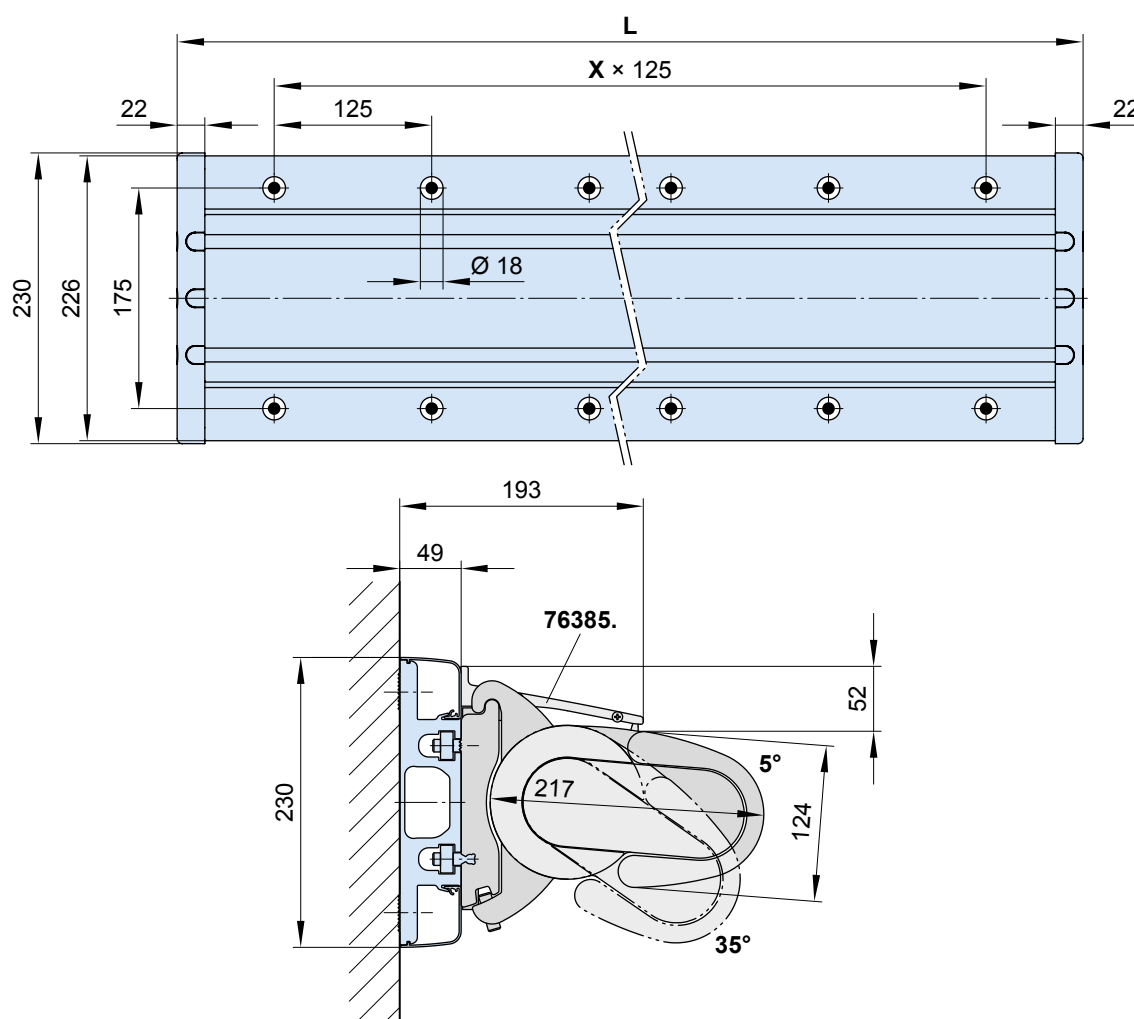


side plate
and
2 fillister head self-tapping
screws

76465. and 2 × 735611

As a **continuous fixture profile**, the markilux panel will always be supplied to order on the basis of a technical drawing prepared in the factory in accordance with the awning specification.

The technical drawing shows the fixture points and pull-out forces and must be approved in writing.



76385. = wall sealing profile (standard width = $M - 168$ mm; up to a maximum awning pitch of 35°)

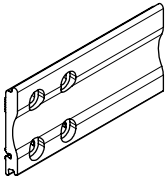
L = individual width max. 7000 mm, (standard $L = M + 20$ mm)

X = fixing point separation, by way of example

dimensions in mm

Face fixture with stand-off bracket

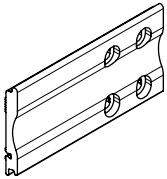
Fixtures, fittings and accessories



face fixture bracket
left

300 mm

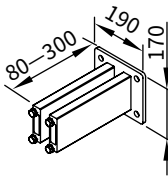
70617.



face fixture bracket
right

300 mm

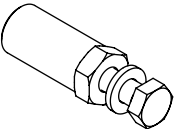
70600.



stand-off bracket for
face-fixture bracket
70617. and 70600.

80-300 mm

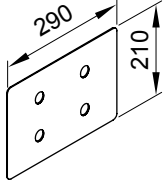
77968.



bolt reduction assembly

pack 10 pcs

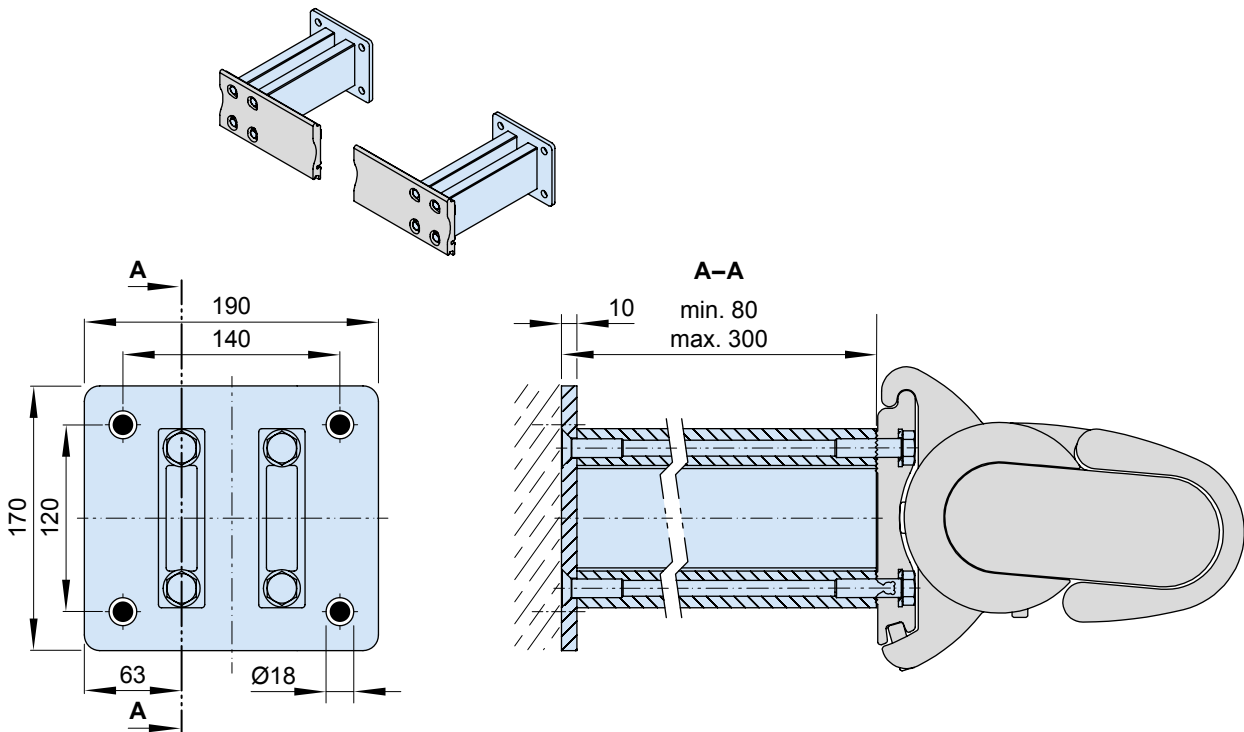
M 16 → M 12 | M 16 → M 10 | M 12 → M 10 | M 10 → M 10



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

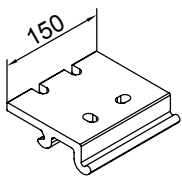
290 × 210 × 2 mm

71841.



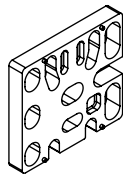
dimensions in mm

Fixtures, fittings and accessories



top fixture bracket
150 mm

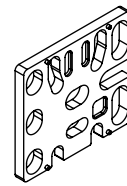
71625.



spacer plate for
top fixture
150 × 136 × 20 mm

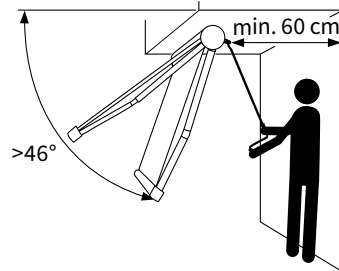
N.B!
stack to a max. height of
200 mm

716331

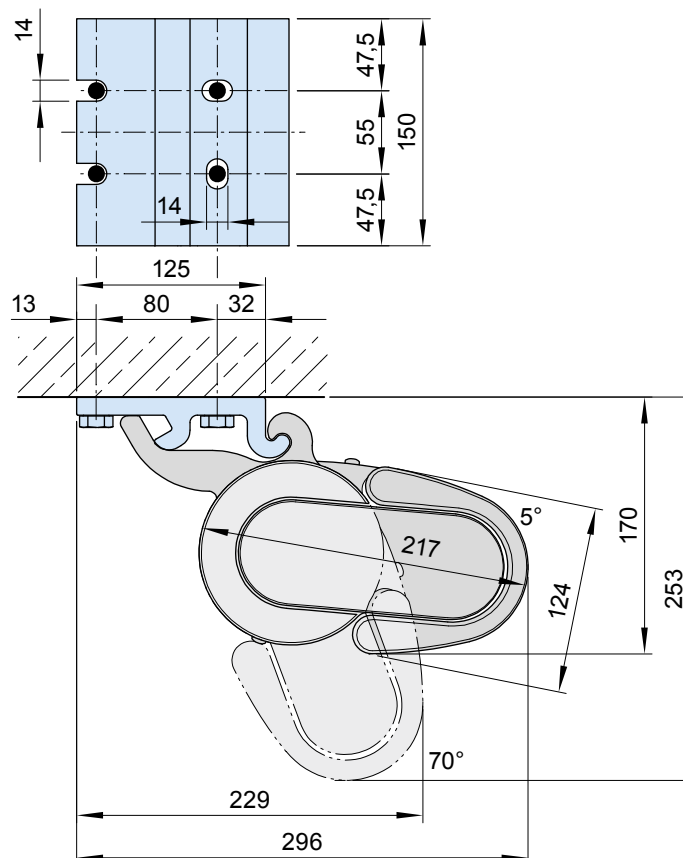


spacer plate for
top fixture
150 × 136 × 12 mm

71644.



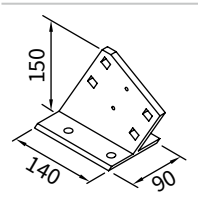
N.B! At a pitch of more than 46° to the horizontal there must be an area accessible behind the awning at least 60 cm deep to allow operation of an RTS motor with manual override.



dimensions in mm

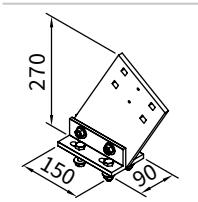
Eaves fixture

Fixtures, fittings and accessories



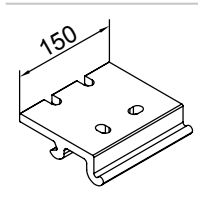
eaves fixture bracket
90 mm
150 mm plate

71612.



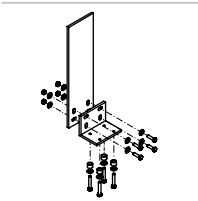
eaves fixture bracket
90 mm
270 mm plate

71659.



top fixture bracket
150 mm

71625.

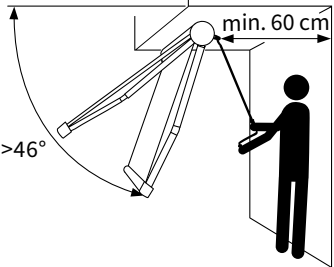


flat plate and angled
bracket for eaves fixture

height of flat plate:
500 mm

machine finish

716620



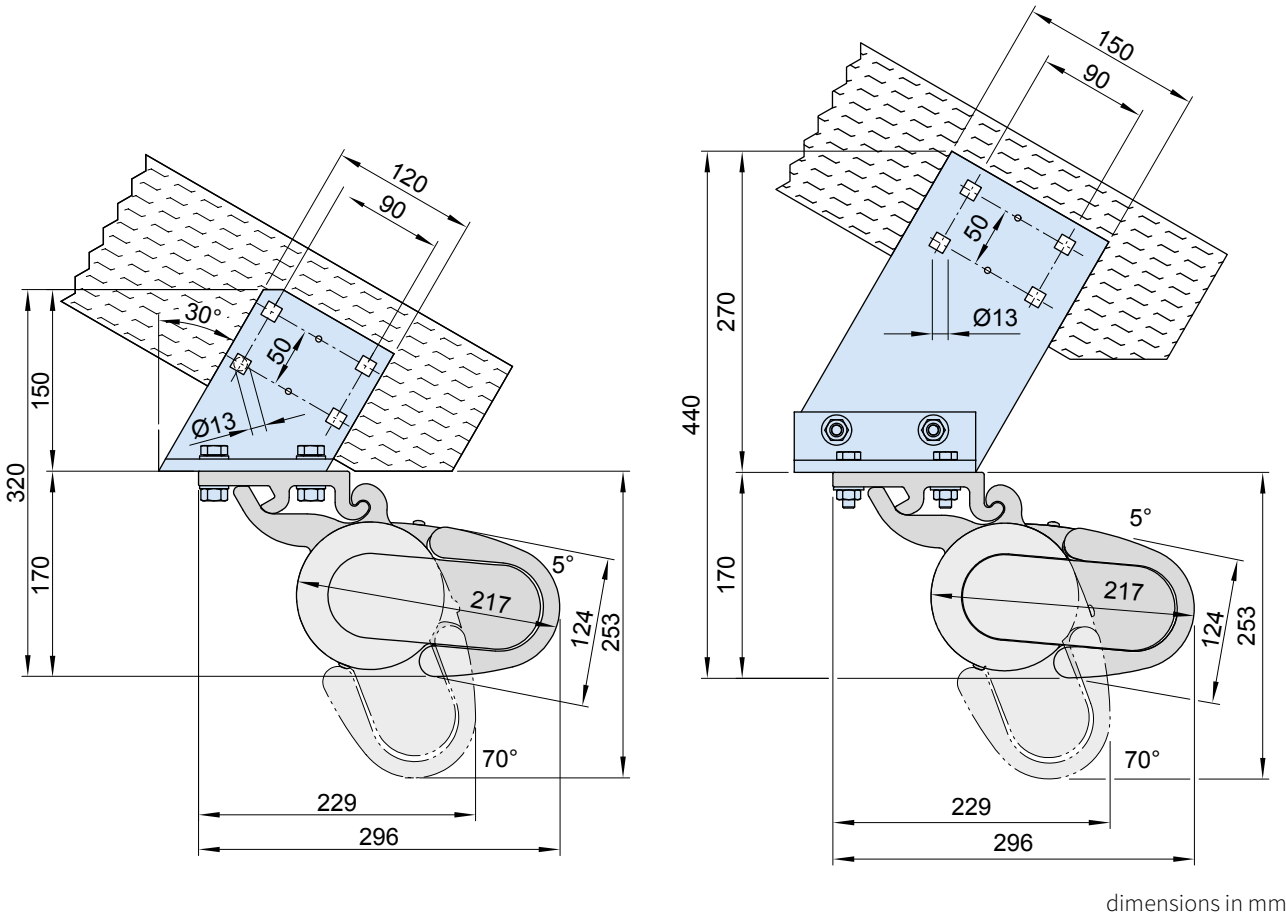
min. 60 cm

>46°

N.B! At a pitch of more than 46° to the horizontal there must be an area accessible behind the awning at least 60 cm deep to allow operation of an RTS motor with manual override.

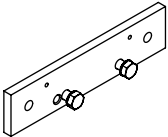
with eaves fixture bracket, 150 mm (71612.)

with eaves fixture bracket, 270 mm (71659.)

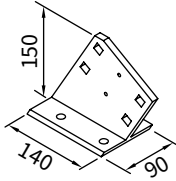


Eaves fixture with additional plate

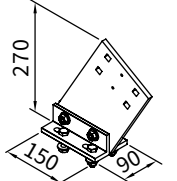
Fixtures, fittings and accessories



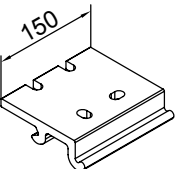
75383.
supplementary flat plate
for eaves fixture
260 x 60 x 12 mm



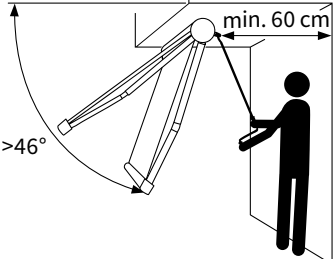
71612.
eaves fixture bracket
90 mm
150 mm plate



71659.
eaves fixture bracket
90 mm
270 mm plate



71625.
top fixture bracket
150 mm

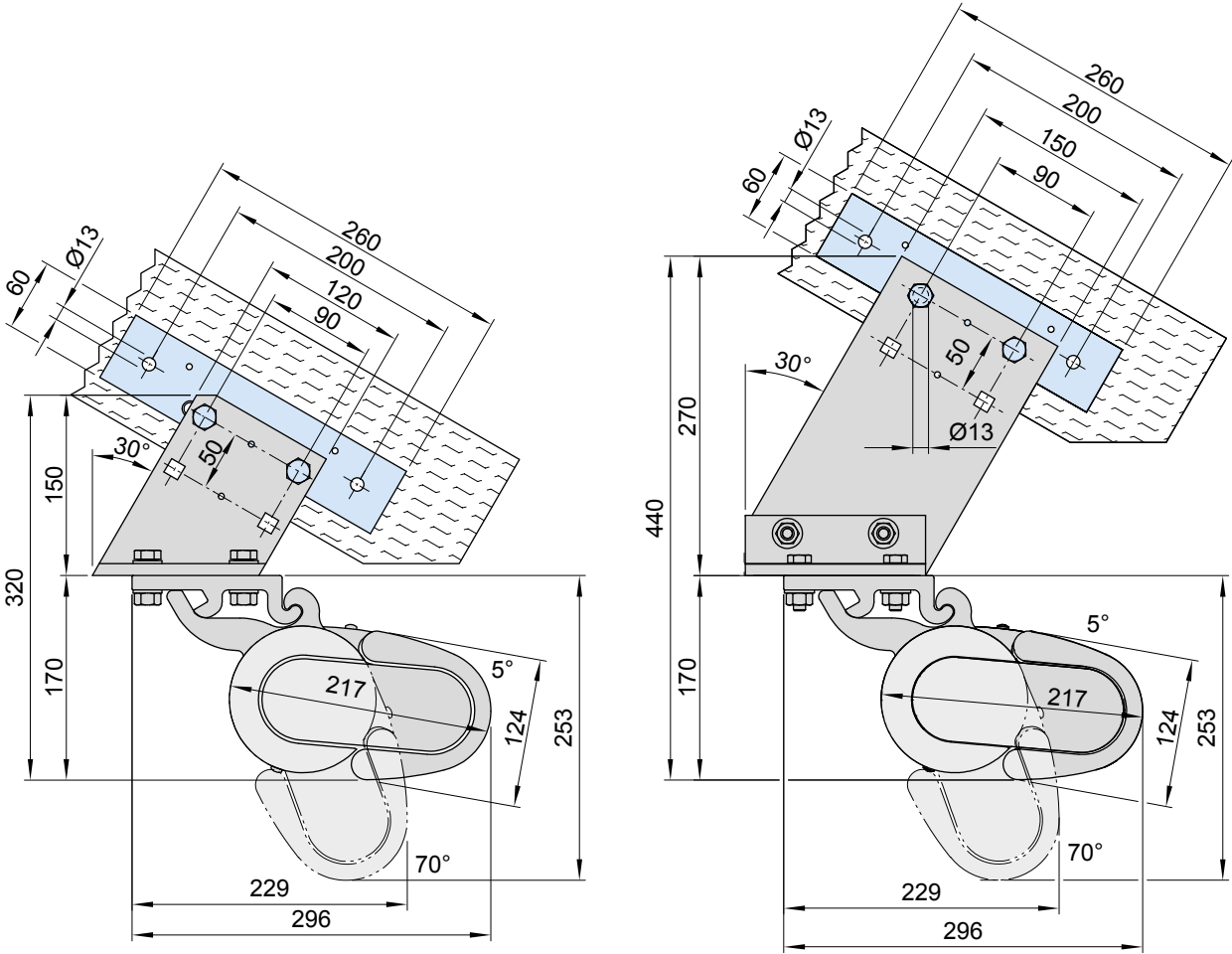


min. 60 cm
>46°

N.B! At a pitch of more than 46° to the horizontal there must be an area accessible behind the awning at least 60 cm deep to allow operation of an RTS motor with manual override.

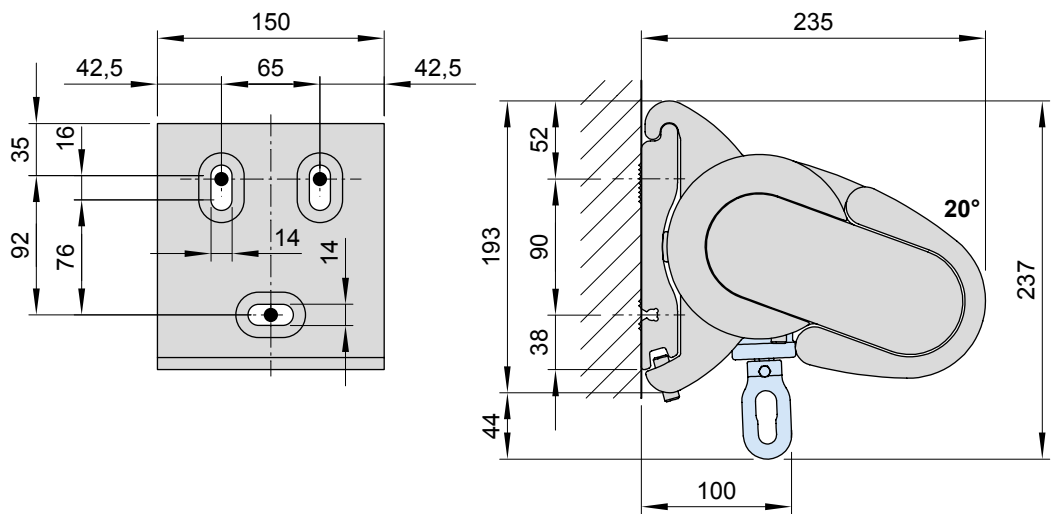
with eaves fixture bracket 150 mm (71612.)

with Eaves fixture bracket 270 mm (71659.)

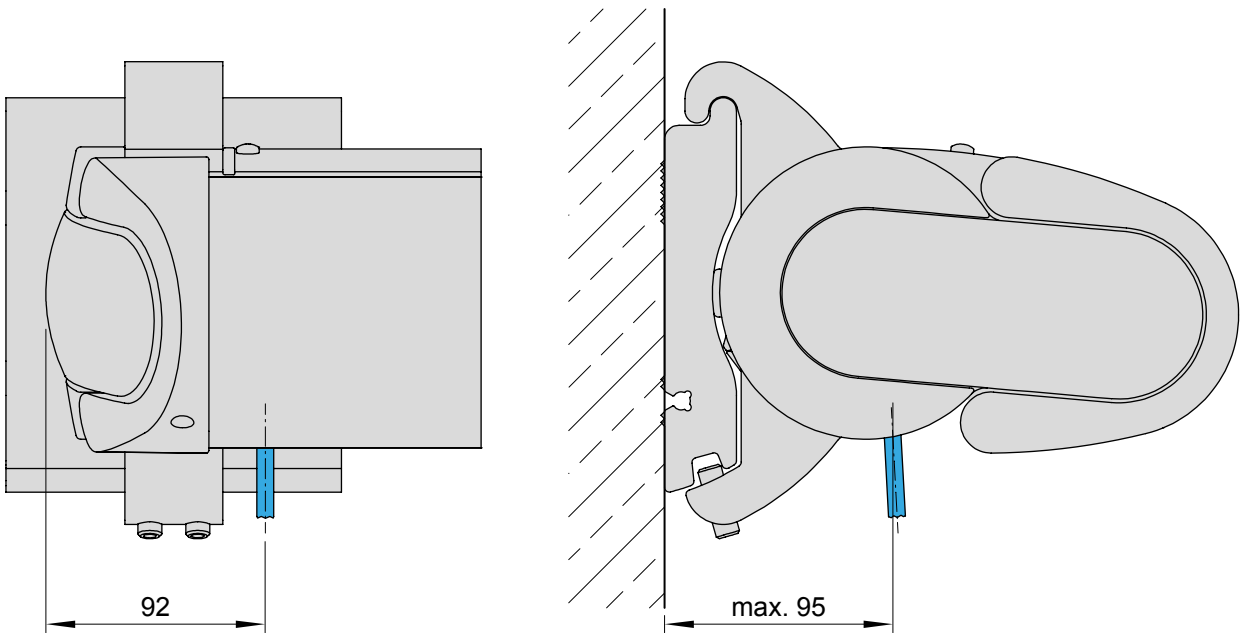


dimensions in mm

Face fixture, manual operation

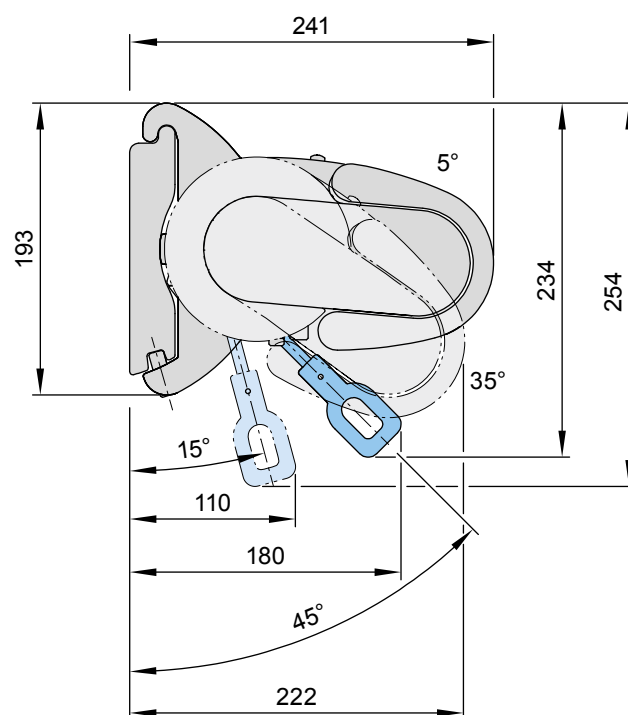


Motor cable exit point

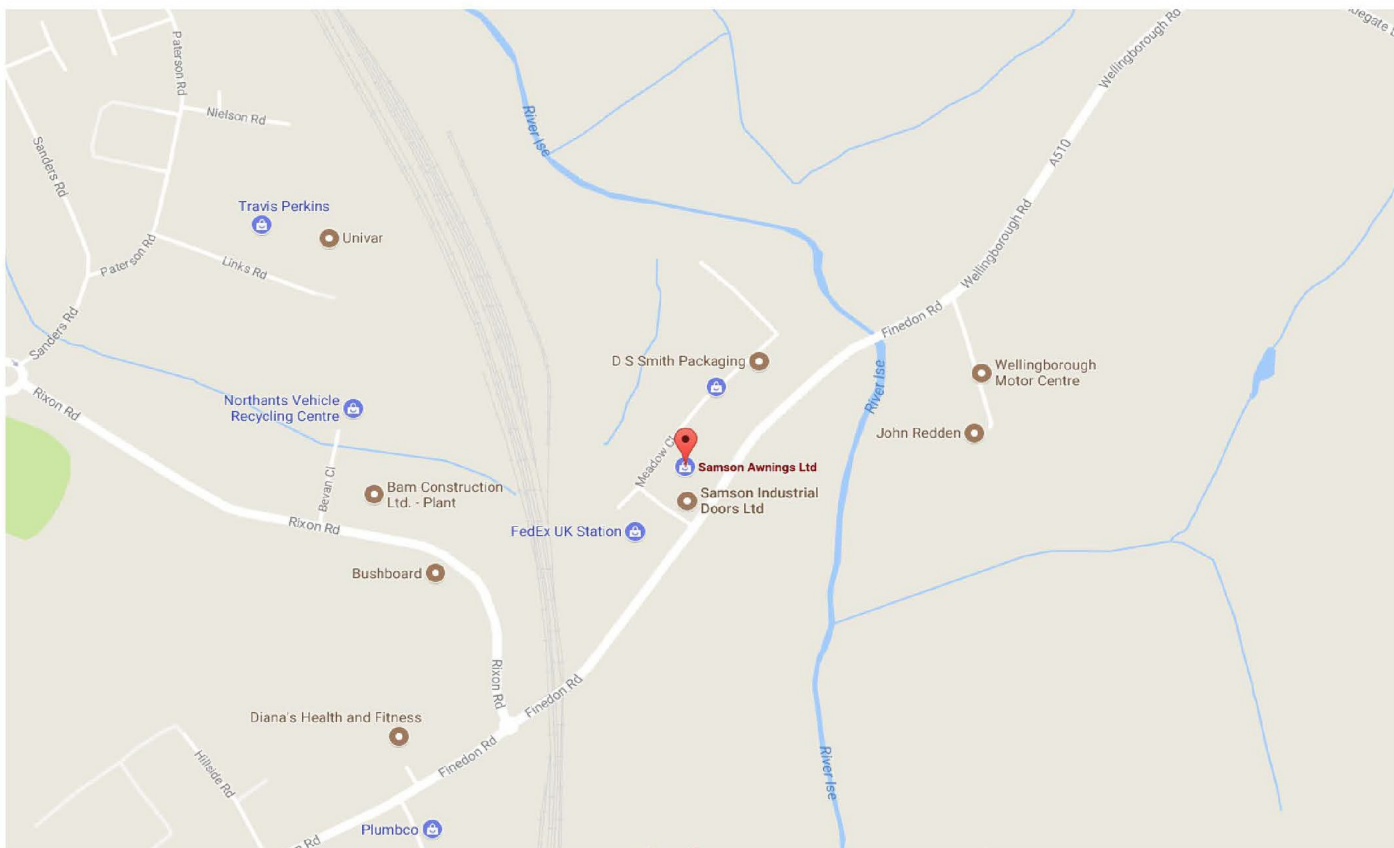


dimensions in mm

Face fixture, radio-controlled motor with manual override



dimensions in mm



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