

Markilux 1600 Technical Brochure



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TELEPHONE: (01933) 448844
MON - FRI 8:30AM - 5:30PM**



Semi-cassette awning

markilux 1600

The awning with excellent design features and well-thought-out mechanics.



product
design award

markilux.com

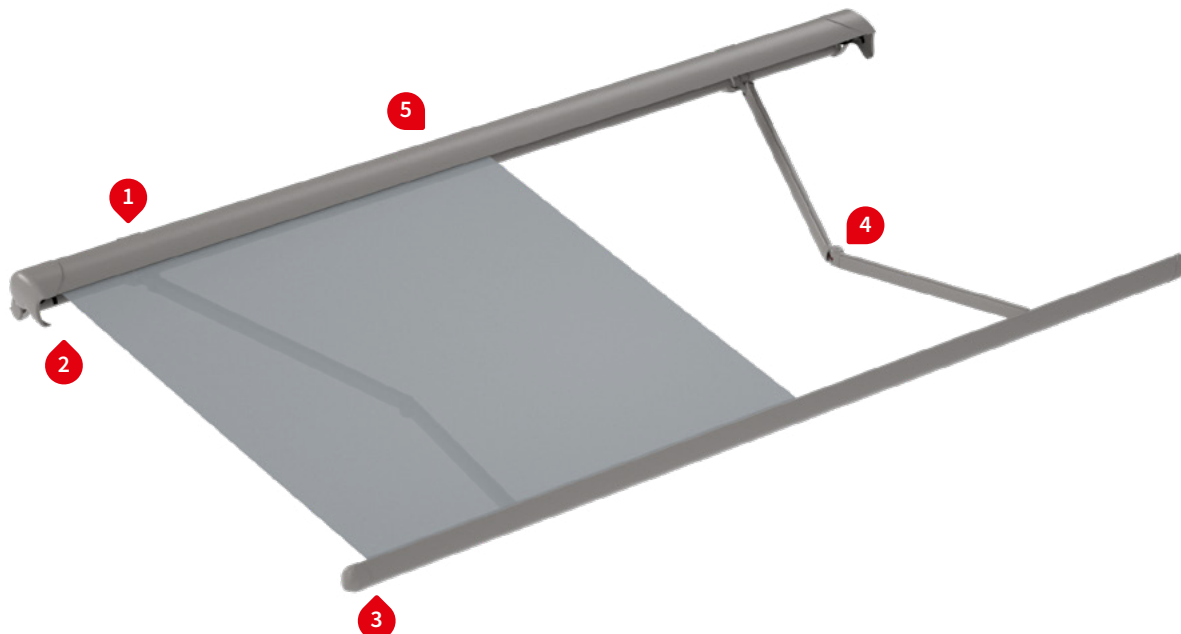
markilux

safe timeless beautiful

Product characteristics

Wind resistance class 2

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



11

1 face fixture



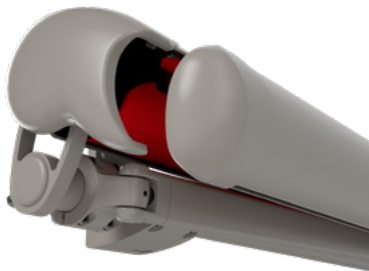
1 face fixture, maximum pitch of 50°



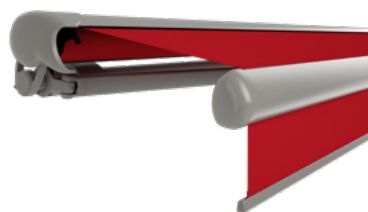
1 top fixture



2 retraction phase



3 drop valance, during extension ¹⁾



4 twin steel-link chain, corrosion protected



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



5 wall sealing profile, up to a pitch of 25° ¹⁾



¹⁾ optional configuration

Product characteristics

Description

- the folding-arm awning with exceptional, organic design characteristics and pivoting coverboard ideally suited for shading large areas.

Special features

- the dynamically rounded coverboard gives it the appearance of a full cassette awning
- during the closing procedure, the coverboard tilts automatically down to meet the given pitch of the awning and together with the front profile encloses the roller tube completely (the awning is open underneath)
- coverboard with integrated brush so that debris does not get dragged into the awning as it closes
- option of a drop valance up to a projection of 350 cm – vertical protection against low-lying sun, wind and inquisitive glances integrated into the front profile, can be operated manually or by motor
- awning with an extremely torsion-resistant, round torque bar which gives a certain degree of flexibility when choosing the fixture points

Dimensions

- cassette in the standard version: depth 254 mm, height 223 mm
- single unit: minimum width 174 cm at the smallest projection of 150 cm maximum width 710 cm at the largest projection of 400 cm
- also available as a coupled unit

Roller tube and lateral arm bearers

- round roller tube Ø 85 mm with keyway, galvanised steel – excellent stability, ensures near perfect cover performance even at the largest widths
- the roller tube support bracket is made of extruded aluminium, powder coated, visually masked by the coverboard end cap

Awning profiles

- extruded aluminium, in façade quality, powder coated
- oval, single-piece coverboard, pre-fitted, enclosing the awning from behind and above
- semi-circular front profile incorporated into the coverboard during closing
- round torque bar Ø 50 mm, galvanised both inside and out, powder coated

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 fibres – low in friction, noiseless, insensitive to corrosion and UV resistant

Side caps

- the coverboard end caps are made of high-quality plastic, powder coated
- the front profile and torque bar end caps are made of high-quality plastic, powder coated or in polished chrome

Fixture brackets

- face fixture, top fixture, eaves fixture
- extruded aluminium, powder coated
- pitch range 5°–50°, infinitely adjustable
- spacer plates, stand-off brackets and other accessories are available

01 Frame and end cap colours

markilux frame 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⁾



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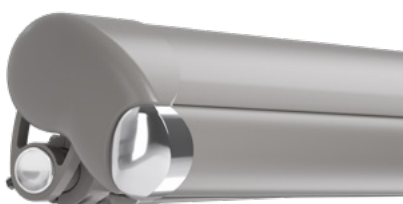
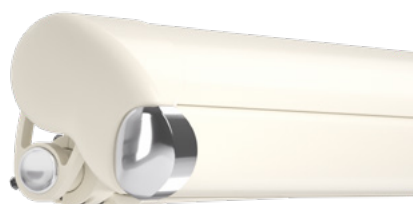
12 Havana brown textured finish, 5229 ¹⁾



17 off-white textured finish, 5233 ¹⁾ front profile and torque bar end cap in polished chrome

stone grey metallic, 5215 ¹⁾ front profile and torque bar end cap in polished chrome

anthracite metallic, 5204 ¹⁾ front profile and torque bar end cap in polished chrome



Combination options – possible in any frame colour.

Non-standard powder-coated finish

Bespoke frame colours at a surcharge – matt, metallic 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

		Overall awning width										Minimum width				
		260	310	360	410	460	510	560	610	660	710 ²⁾	Motor		Crank handle		
Order dimensions		174 260	261 310	311 360	361 410	411 460	461 510	511 560	561 610	611 660	661 710					
H	150	³⁾										187	174	—	190	177
	200	³⁾										237	224	—	240	227
	250	—	³⁾									287	274	—	290	277
	300	—	—	³⁾								337	324	—	340	327
	350	—	—	—	³⁾					^{1) 3)}		387	374	637	390	377
	400 ^{1) 2)}	—	—	—	—	³⁾				—	³⁾	437	424	687	—	—

1) = drop valance not available

2) = only available with motor drive (surcharge)

3) = please observe the minimum widths!

H = projection

 = 2 folding arms, 2 brackets

 = 2 folding arms, 3 brackets

 = 2 folding arms, 3 brackets, 1 rolltex bearing

 = 3 folding arms, 4 brackets, 2 rolltex bearings

 = 2 standard arms

 = 2 bespoke arms (surcharge)

 = 3 standard arms

dimensions in cm

Operation

	standard	optional
manual operation	✓	—
spring-assisted crank handle	—	✓
hard-wired motor	—	✓
silentec motor (optionally with an external io / RTS receiver) ¹⁾	—	—
radio-controlled motor io, 868 MHz	—	✓
radio-controlled motor RTS, 433 MHz	—	✓
radio-controlled motor RTS, 433 MHz with manual override ¹⁾	—	✓

1) for awnings with a maximum of 2 arms

Awning cover	fabric range no.	standard	optional
sunvas	301.. / 309..–315..	✓	—
perla	370 ..	—	✓
sunsilk	324.. / 325.. / 328.. / 369..	✓	—
perla FR	374.. / 375..	—	✓
perfortex	331.. / 332..	—	—
transolair	338..	—	—
vuscreen Alu	317..	—	—
Soltis Perform 92	92-20..	—	—
glass fibre screen	272..	—	—
valance, height 20 cm		—	✓

Coupled Awning (only with motor drive) ¹⁾

2 fields, 1 motor, maximum width 1410 cm
maximum projection (depending on the width) 400 cm
junction roller (one-piece cover not available)

1) **N.B!** Important background information can be found in the chapter “General Information”, in the section “Coupled Awnings”.

Shadeplus / drop valance ⁵⁾

	standard	optional
height 210 cm ¹⁾		
maximum awning projection 350 cm ²⁾		
manual operation	✓	—
hard-wired motor ³⁾	—	✓
radio-controlled motor io, 868 MHz ³⁾	—	✓
radio-controlled motor RTS, 433 MHz ³⁾	—	✓
cover	sunvas / sunsilk / transolair / vuscreen Alu ⁴⁾	

1) depending on the fabric width (fabric width 120 cm) with horizontal seam

2) not available in awning sizes from 611 cm to 660 cm × 350 cm

3) drop 100 cm / striped fabrics will run horizontally

4) vuscreen Alu: maximum height 100 cm, only available with manual operation

5) Only available in plain seamless fabrics (oversized, fabric width > 120 cm) or in plains with a horizontal joint (fabric width 120 cm).

01	Optional accessories
	drop valance, manual or motor operation
02	folding arm technology with bionic tendon
	valance
03	wall sealing profile (effective up to a maximum awning pitch of 25°); coverboard when fitted to the markilux panel, in one piece
04	infrared heater 2500 W
05	infrared heater 2500 W with integrated radio-controlled receiver 868 MHz io
06	LED spotline – light bar 110 × 70 mm with 5 W LED spotlights, width 180 cm / 3 spots or 300 cm / 5 spots
07	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
08	automatic controls (light, wind, rain)

09 **N.B!** Important background information can be found in the chapter “Optional Accessories”.

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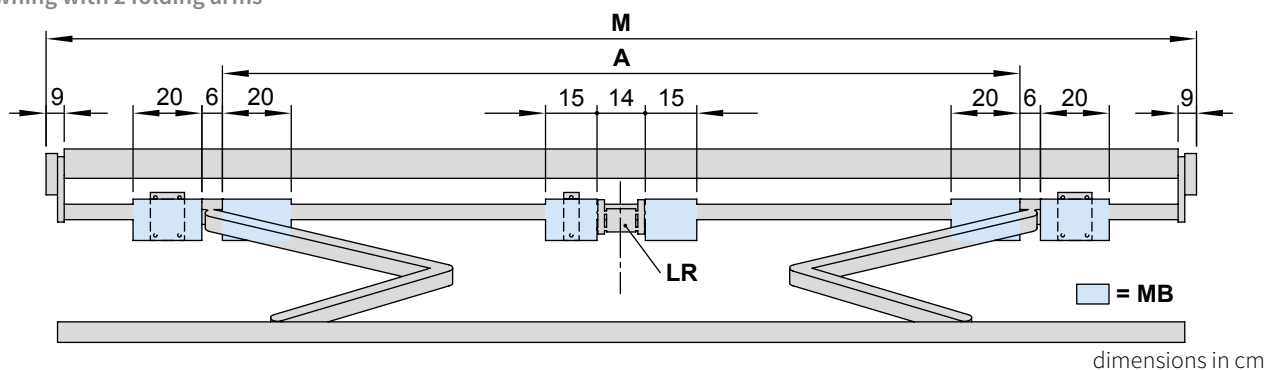
16

17

Fixture brackets	
wall bracket 100 mm	70867.
wall bracket 45 mm	71813.
spreader plate A 430 × 160 × 12 mm	75326.
spreader plate B 300 × 400 × 12 mm	75325.
markilux panel 250 × 230 × 49 mm	76308.
markilux panel continuous	76380.
stand-off bracket wide 80–300 mm	77968.
stand-off bracket narrow 80–300 mm	77967.
top fixture bracket 90 mm	70868.
top fixture bracket 45 mm	71818.
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, machine finish aluminium, 500 mm plate	716620
spreader plate 260 × 60 × 12 mm for eaves fixture bracket	75383.
eaves fixture bracket adjustable from 7.5° – 60°	71198.

Bracket fixture range

Awning with 2 folding arms



Order dimensions		Overall awning width								
		260	310	360	410	460	510	560	610	660
		173 260	261 310	311 360	360 410	411 460	461 510	511 560	561 610	611 660
		Arm position A								
H	150	154 ¹⁾	220	260	280	330	390	425	460	500
	200	204 ²⁾	204 ¹⁾	260	280	330	390	425	460	500
	250	—	254 ²⁾	254 ¹⁾	280	330	390	425	460	500
	300	—	—	304 ²⁾	304 ¹⁾	330	390	425	460	500
	350	—	—	—	354 ²⁾	370 ¹⁾	390	425	460	500
	400	—	—	—	—	404 ²⁾	425 ¹⁾	425	460	—
BHT		No. of brackets No. of fixing points								
W	4,5	—					1 2			
	10	2 6					2 6			
BP		A 2 16				B 2 8		A 2 16 B 2 8		
DP		—					1			
PA		2 8					3 12			
DE	4,5	—					1 2			
	9	2 8					2 8			
DA	9	2 8					3 12			

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

- 1) = coupled awning in intermediate widths available on request with junction roller
- 2) = please note the minimum widths! Dimension A is only valid for standard arms! Dimension A is 13 cm smaller in the case of bespoke arms. In the case of small awnings the brackets can only be fitted inside the arms, i.e. the position denoted by measurement A. Coupled units are not available with junction roller.

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 or B, to be positioned behind the folding arm

DA = eaves fixture bracket

DE = top fixture bracket

DP = spacer plate 71826., to be positioned behind

the rolltex bearing, in the case of spreader plate A or B

H = *order dimension* = projection

LR = rolltex bearing

M = *order dimension* = awning width

MB = bracket fixture range

PA = markilux panel, fixture profile, width 250 mm

W = face fixture bracket

Awning with 3 folding arms



dimensions in cm

DP = spacer plate 71826., to be positioned behind the rolltex bearing, in the case of spreader plate A, B

H = *order dimension* = projection

LR = rolltex bearing

M = *order dimension* = awning width

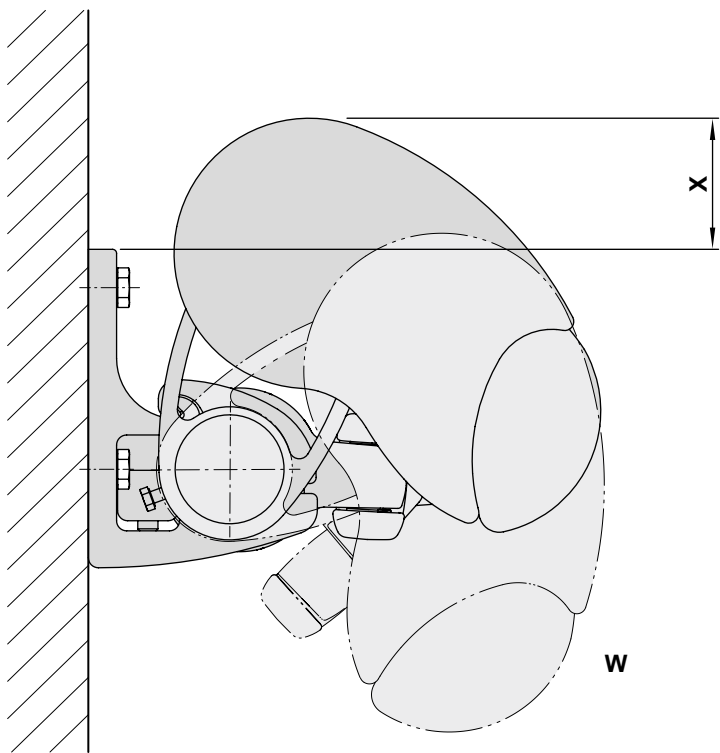
MB = bracket fixture range

PA = markilux panel, fixture profile, width 250 mm

W = face fixture bracket

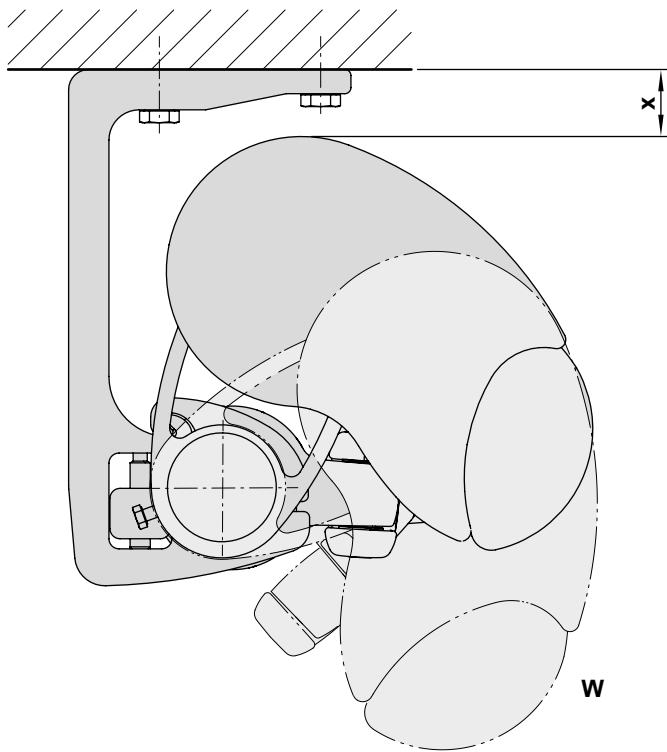
Overall unit height at different pitch settings

Face fixture



pitch (W)	approx. height in mm (X)
5°	65
10°	64
15°	60
20°	54
25°	48
30°	41
35°	34
40°	26
45°	17
50°	8

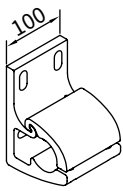
Top fixture



pitch (W)	approx. height in mm (X)
5°	33
10°	34
15°	38
20°	44
25°	50
30°	57
35°	65
40°	73
45°	81
50°	90

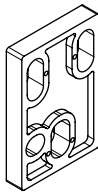
Face fixture

Fixtures, fittings and accessories



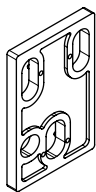
face fixture bracket
100 mm

70867.



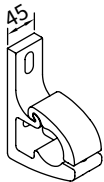
spacer plate
100 × 150 × 20 mm
N.B!
Stack to a max. height of
200 mm

758831



spacer plate
100 × 150 × 12 mm

758841



face fixture bracket
for central fixture,
depending on size
45 mm

71813.



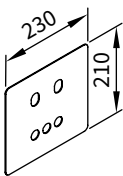
spacer plate for face
fixture 45 × 150 × 20 mm
N.B! stack to a max.
height of 200 mm

718251



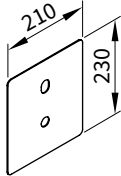
spacer plate for face
fixture 45 × 150 × 12 mm

71826.



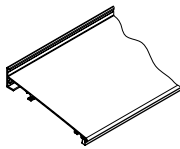
cover plate
for spacer plate
and stand-off brackets
in the case of external
insulation
230 × 210 × 2 mm

71843.



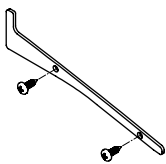
cover plate
for spacer plate
and stand-off brackets
in the case of external
insulation
210 × 230 × 2 mm

71844.



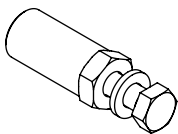
Wall sealing profile
incl. brush seal
when installing with a
coverboard
available by the metre

76385. and 704241



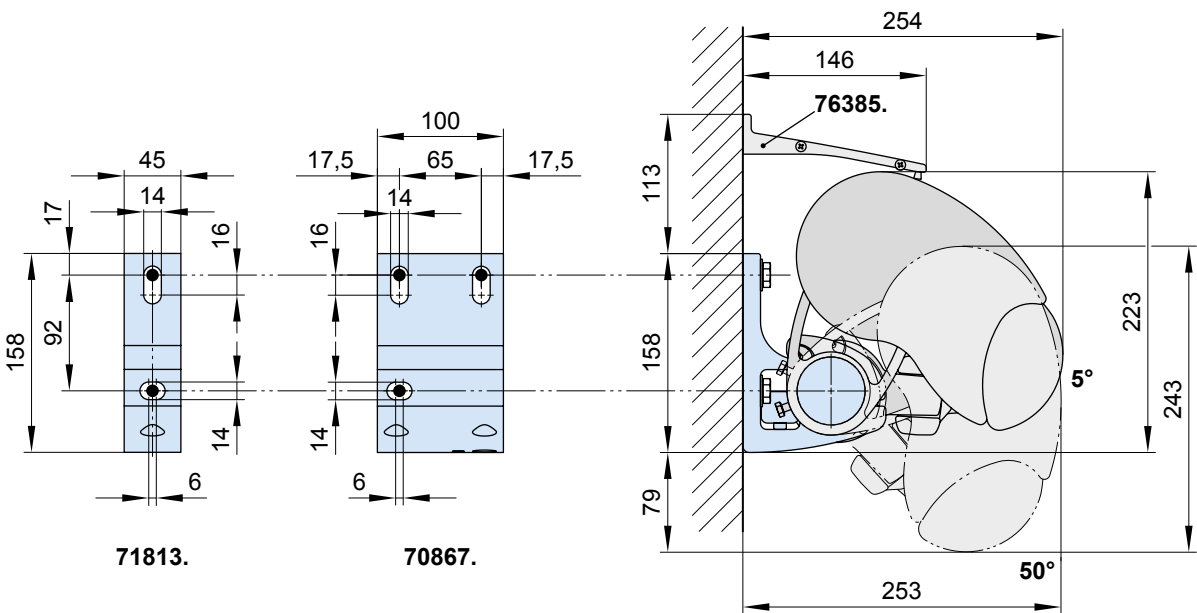
1 side plate including
2 pan-head self-tapping
screws for wall sealing
profile

76386. 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

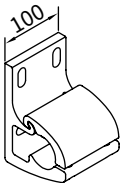
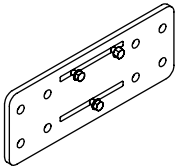
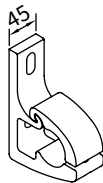
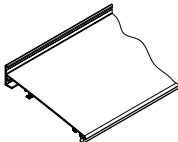
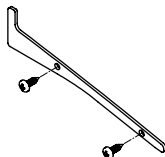
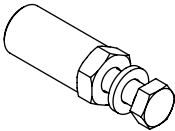


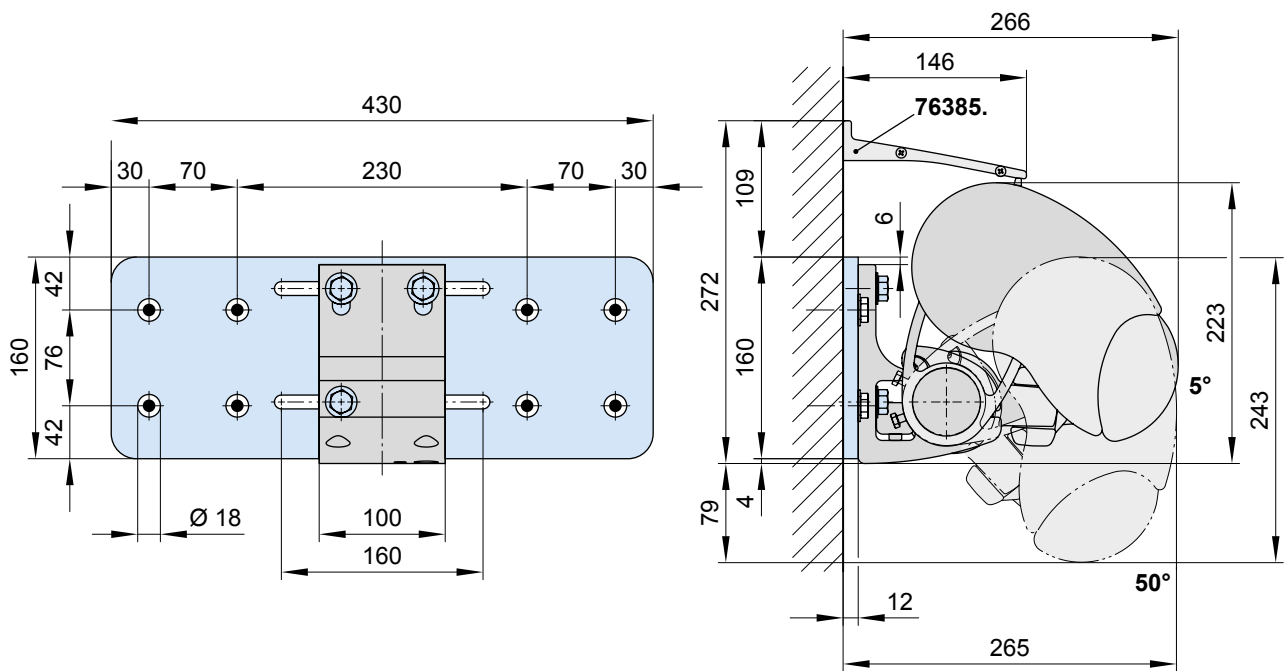
76385. = wall sealing profile (standard width = awning width (M); up to a maximum awning pitch of 25°)

dimensions in mm

Face fixture with spreader plate A

Fixtures, fittings and accessories

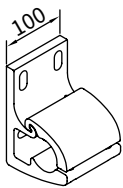
 face fixture bracket 100 mm 70867.	 spreader plate A face fixture 160 × 430 × 12 mm 75326.	 face fixture bracket for central fixture, depending on size 45 mm 71813.
 spacer plate for face fixture 45 × 150 × 12 mm 71826.	 Wall sealing profile incl. brush seal when installing with a coverboard available by the metre 76385. and 704241	 1 side plate including 2 pan-head self-tapping screws for wall sealing profile 76386. 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		



76385. = wall sealing profile (standard width = awning width (M); up to a maximum awning pitch of 25°) dimensions in mm

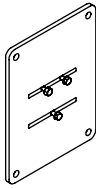
Face fixture with spreader plate B

Fixtures, fittings and accessories



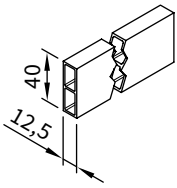
face fixture bracket
100 mm

70867.



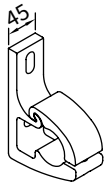
spreader plate B
face fixture
300 × 400 × 12 mm

75325.



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

751971



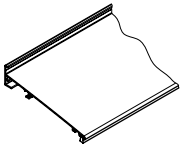
face fixture bracket
for central fixture,
depending on size
45 mm

71813.



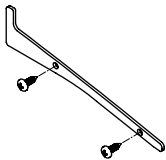
spacer plate for face
fixture
45 × 150 × 20 mm

71826.



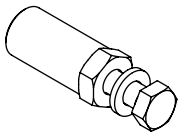
Wall sealing profile
incl. brush seal
when installing with a
coverboard
available by the metre

76385. and 704241



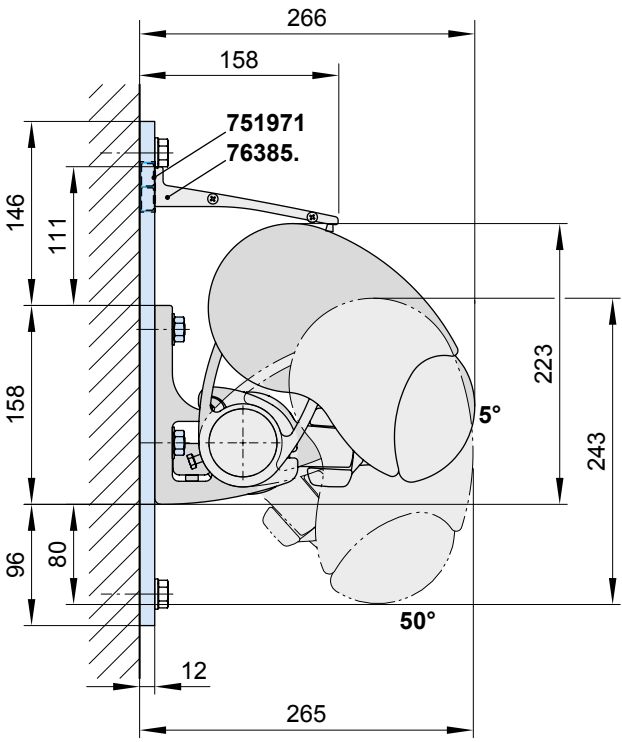
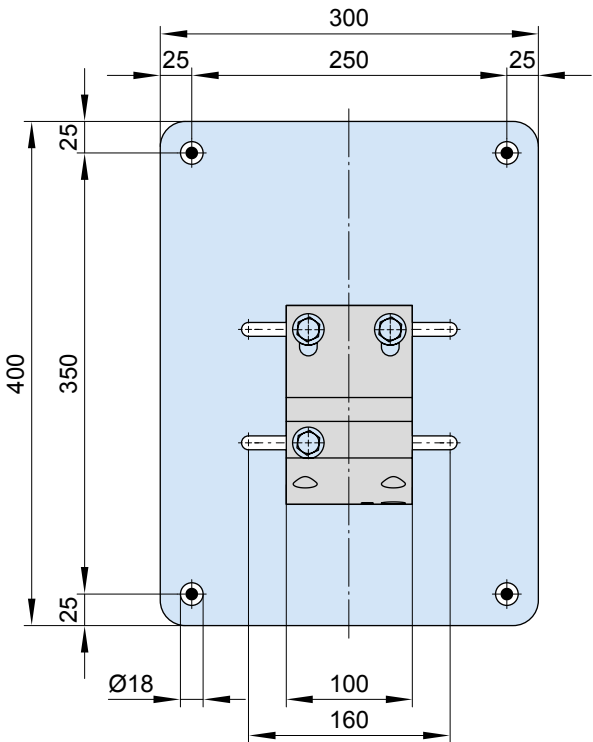
1 side plate including
2 pan-head self-tapping
screws for wall sealing
profile

76386. 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



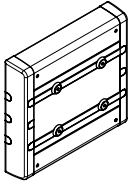
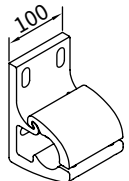
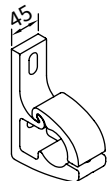
751971 = stand-off strip for wall sealing profile

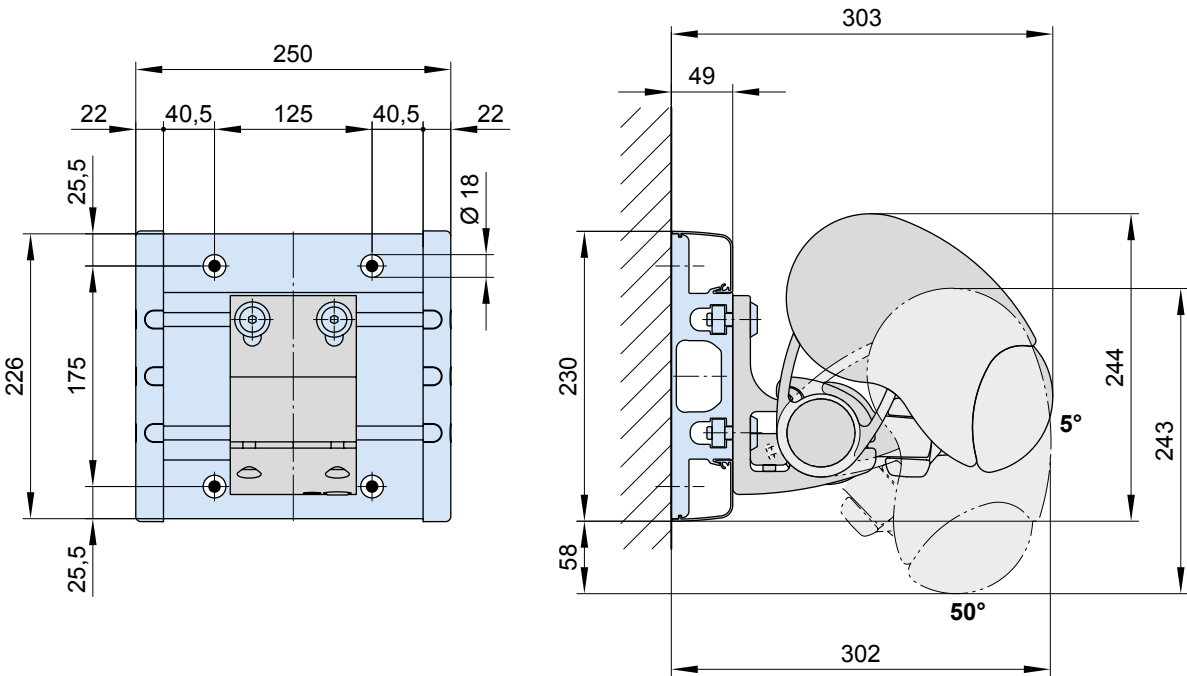
76385. = wall sealing profile (standard width = awning width (M); up to a maximum awning pitch of 25°)

dimensions in mm

Face fixture with markilux panel 250 mm

Fixtures, fittings and accessories

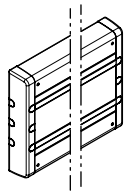
 markilux panel 250 mm fixture profile with decorative profiles and end caps 250 × 230 × 49 mm 76308.	 face fixture bracket 100 mm 70867.	 face fixture bracket for central fixture, depending on size 45 mm 71813.
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dimensions in mm

Face fixture with markilux panel continuous

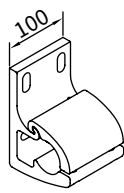
Fixtures, fittings and accessories



markilux panel 250 mm
fixture profile
with decorative profiles
and end caps

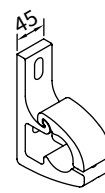
continuous

76380.



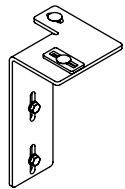
face fixture bracket
100 mm

70867.



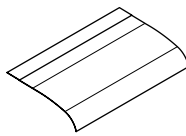
face fixture bracket
for central fixture,
depending on size
45 mm

71813.



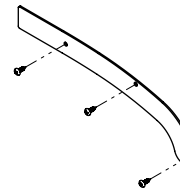
Coverboard brackets

76390.



Coverboard incl. addi-
tional profile and rubber
sealing strip

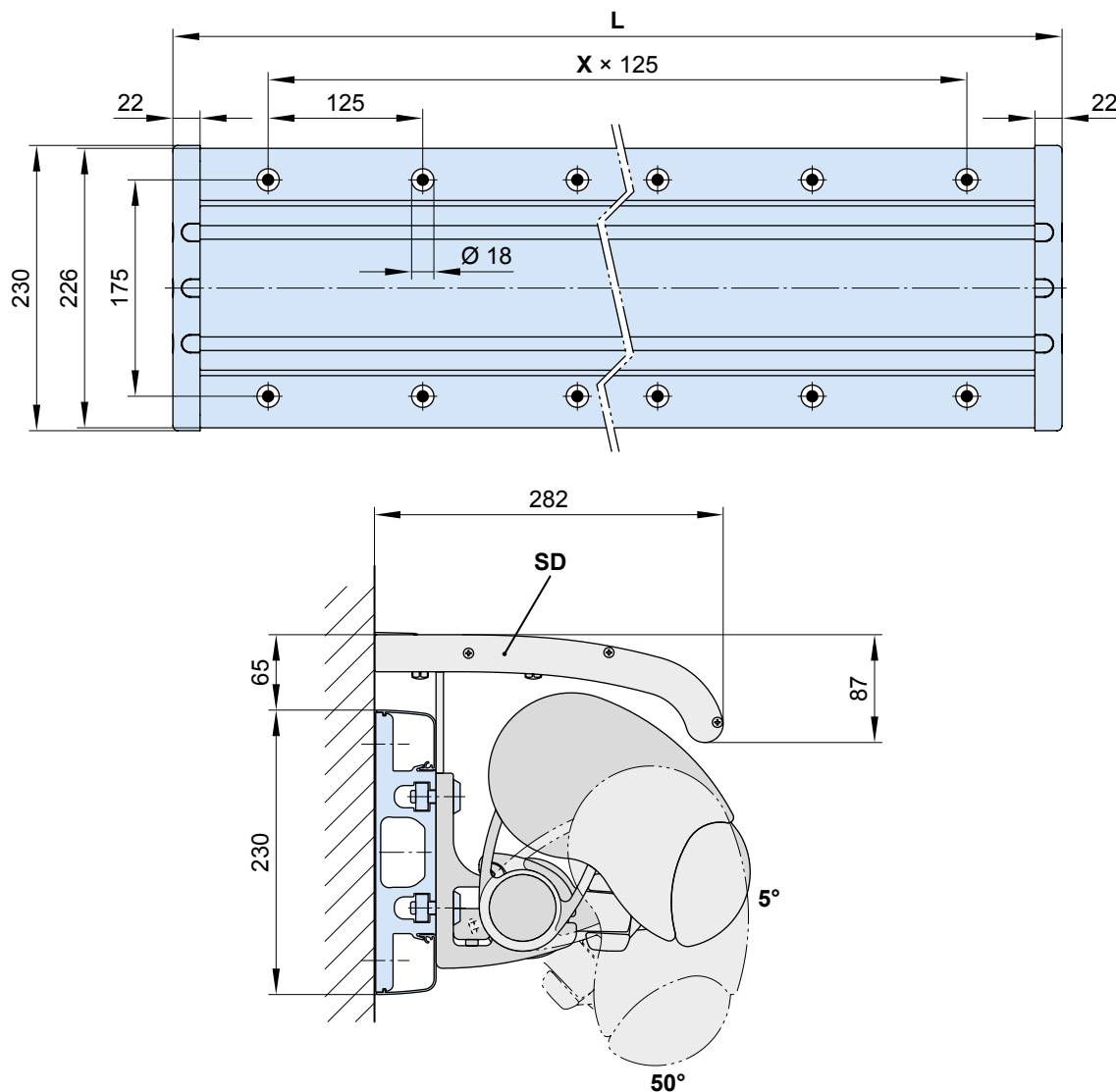
72015., 72019., 75970.



End cheeks for the cover-
board, 282 × 87 × 2 mm
and
3 fillister head self-tap-
ping screws

76469. und 3 × 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.



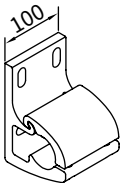
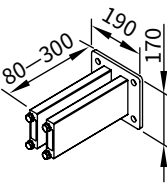
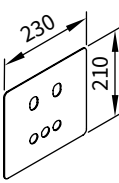
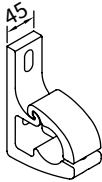
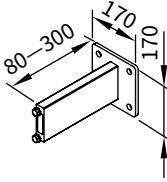
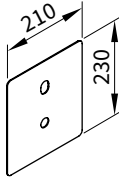
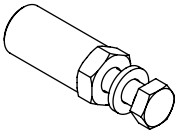
L = individual width, max. 7000 mm
SD = coverboard

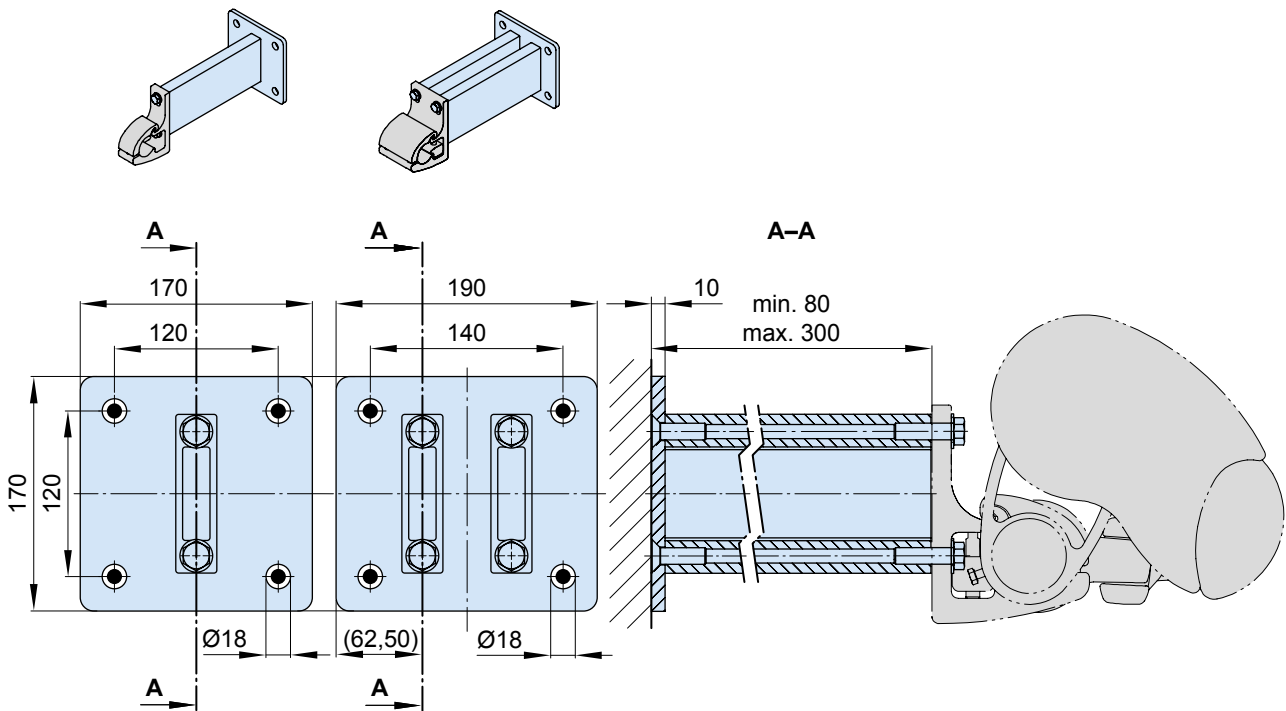
X = fixing point separation, **by way of example**

dimensions in mm

Face fixture with stand-off bracket

Fixtures, fittings and accessories

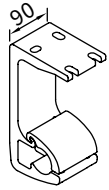
 face fixture bracket 100 mm 70867.	 guide rod bracket for face fixture bracket 70867. 77968.	 cover plate for spacer plate and stand-off brackets in the case of external insulation 230 x 210 x 2 mm 71843.
 face fixture bracket for central fixture, depending on size 45 mm 71813.	 guide rod bracket for face fixture bracket 71813. 77967.	 cover plate for spacer plate and stand-off brackets in the case of external insulation 210 x 230 x 2 mm 71844.
 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

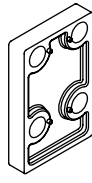
Top fixture

Fixtures, fittings and accessories



top fixture bracket
90 mm

70868.



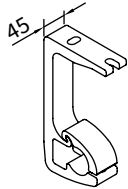
spacer plate for
top fixture
90 × 140 × 20 mm
N.B! stack to a max.
height of 200 mm

716311



spacer plate for top
fixture
90 × 140 × 12 mm

716411



top fixture bracket
additional bracket for 3
folding arms

71818.



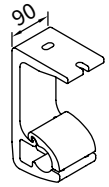
spacer plate
for top fixture
45 × 140 × 20 mm
N.B! stack to a max.
height of 200 mm

716261



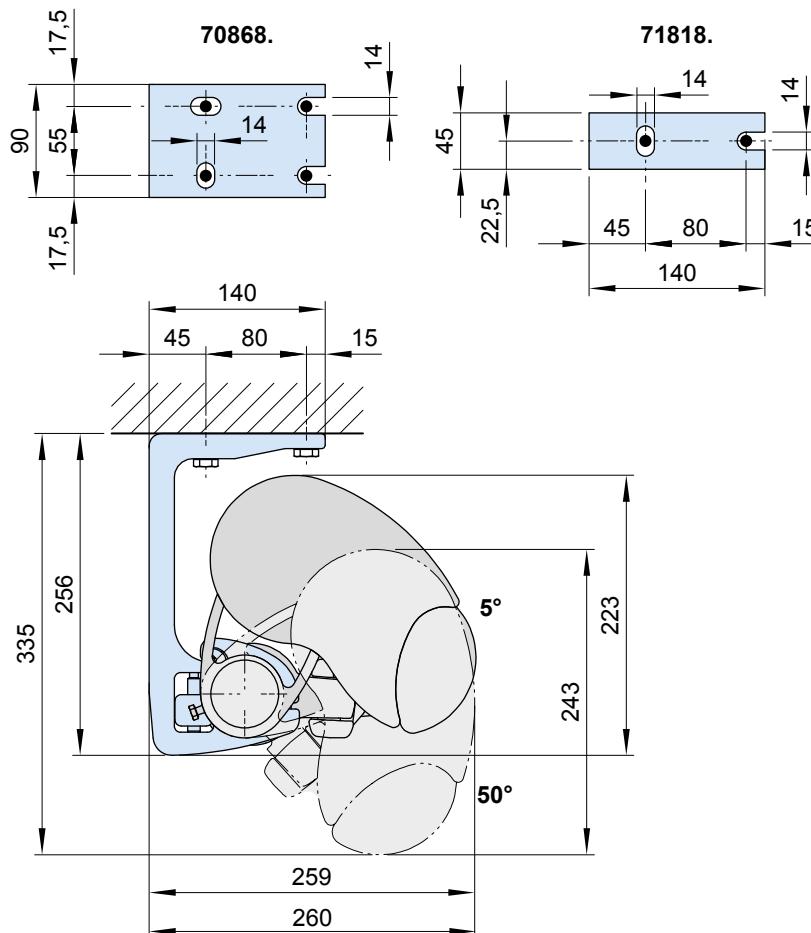
spacer plate
for top fixture
45 × 140 × 12 mm

716371



top fixture bracket
for central fixture
N.B!
The pull-out forces are
double those of top
fixture bracket 70868.

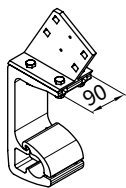
70869.



dimensions in mm

Eaves fixture

Fixtures, fittings and accessories



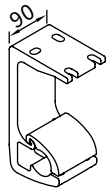
eaves fixture bracket

complete set

height of flat
plate: 150 mm

90 mm

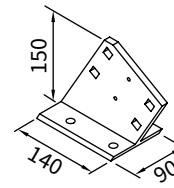
70871.



top fixture bracket

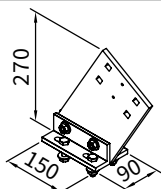
90 mm

70868.



eaves fixture bracket
150 mm plate

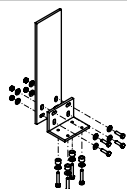
71612.



eaves fixture bracket
270 mm plate

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

71659.



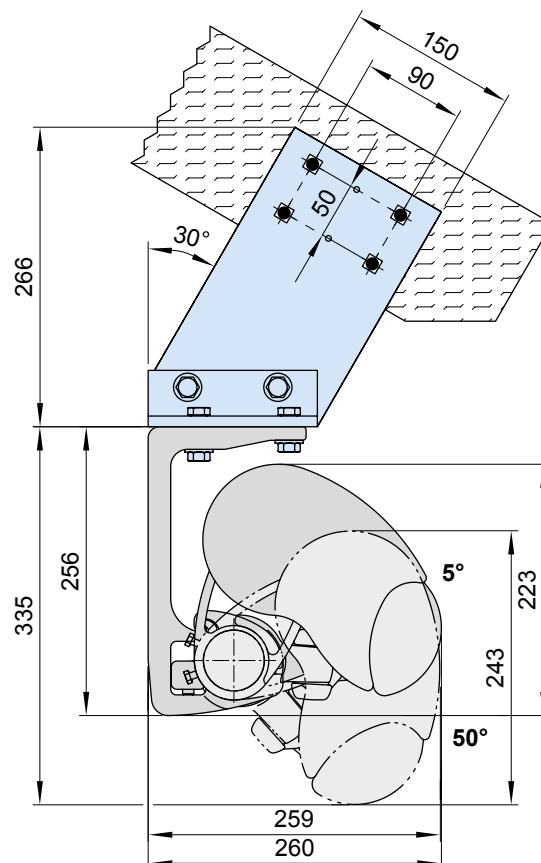
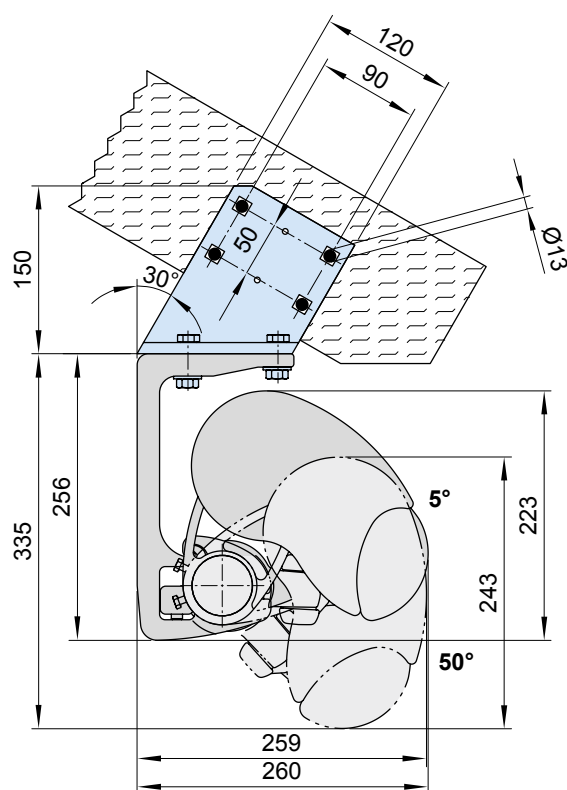
flat plate and angled
bracket for eaves fixture

machine finish

716620

with eaves fixture bracket 150 mm (71612.)

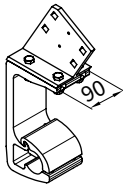
with eaves fixture bracket 270 mm (71659.)



dimensions in mm

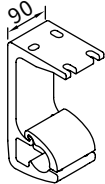
Eaves fixture with additional plate

Fixtures, fittings and accessories



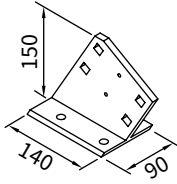
eaves fixture bracket
complete set
height of flat plate: 150 mm
90 mm

70871.



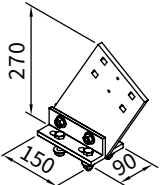
top fixture bracket
90 mm

70868.



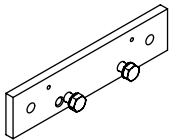
eaves fixture bracket
150 mm plate

71612.



eaves fixture bracket
270 mm plate
please refer to "Eaves
fixture with spreader /
backing plate"

71659.

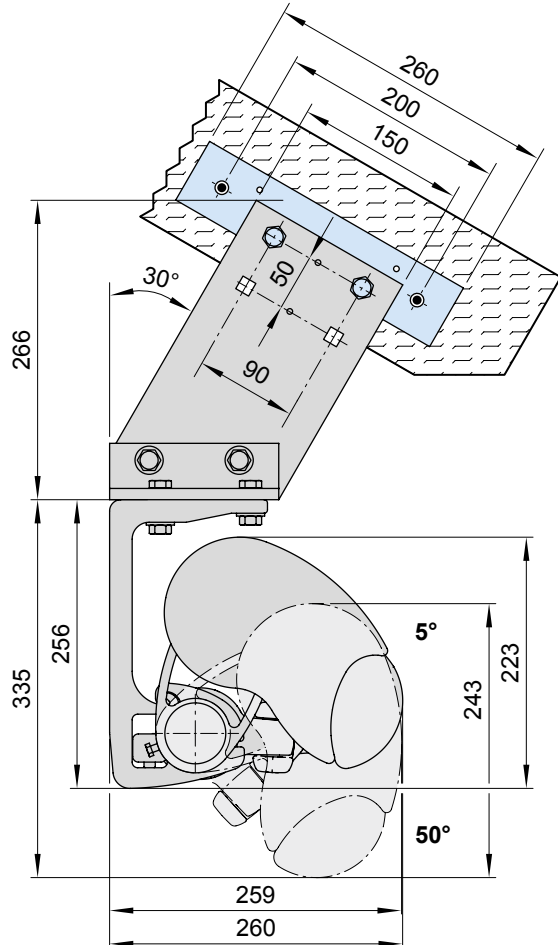
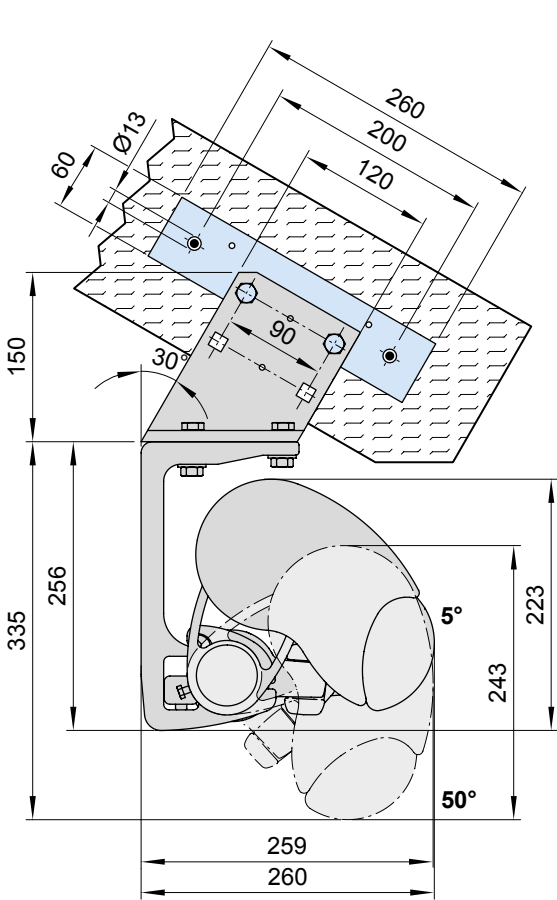


supplementary flat plate
eaves fixture
260 × 60 × 12 mm
please refer to "Eaves
fixture with spreader /
backing plate"

75383.

with eaves fixture bracket 150 mm (71612.)

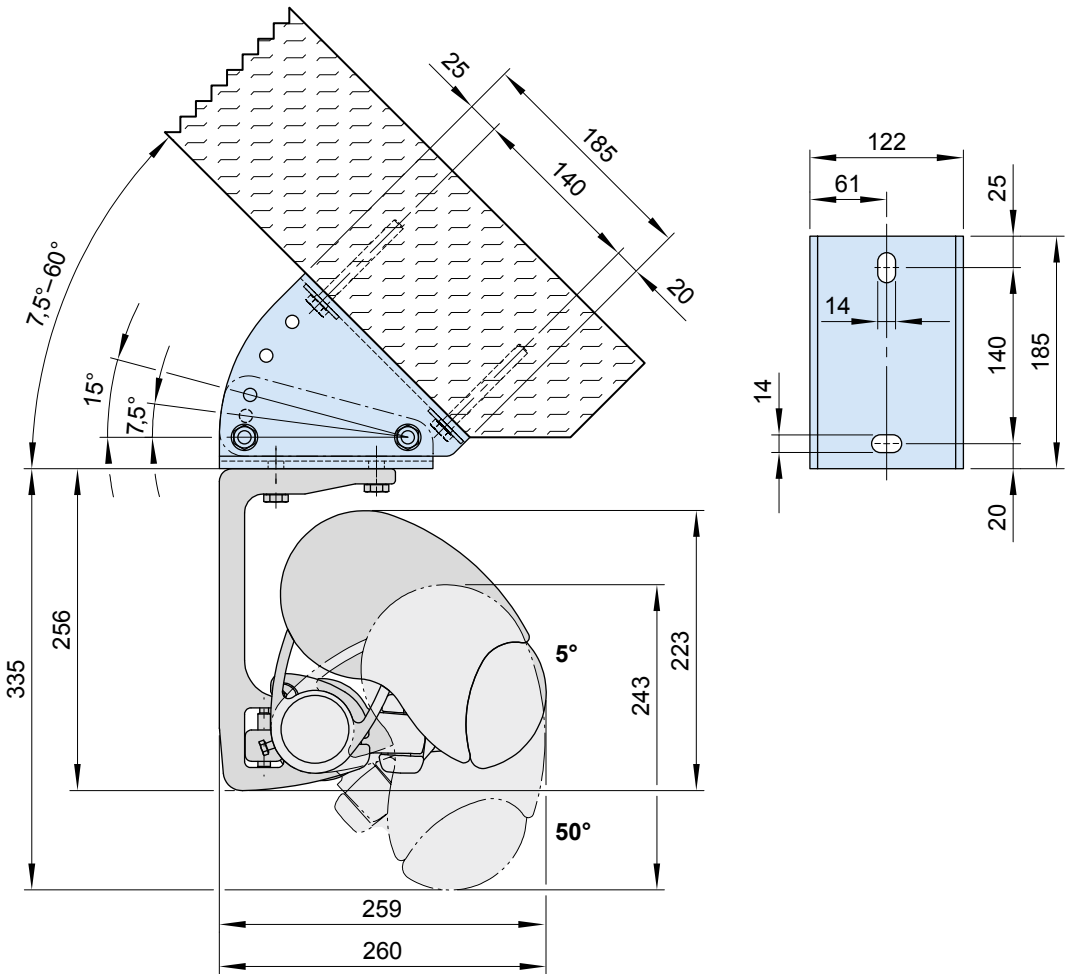
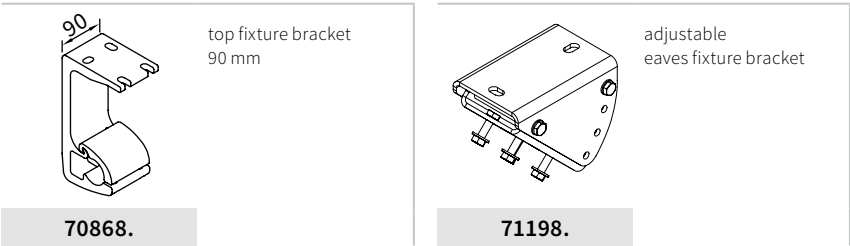
with eaves fixture bracket 270 mm (71659.)



dimensions in mm

Eaves fixture with adjustable eaves fixture bracket

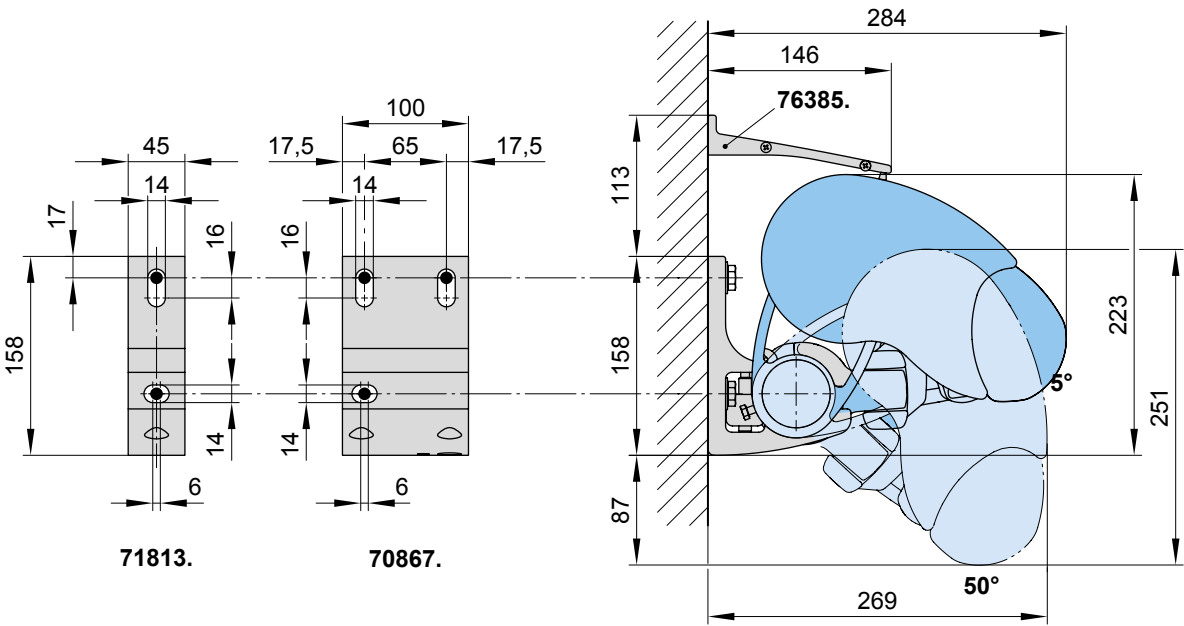
Fixtures, fittings and accessories



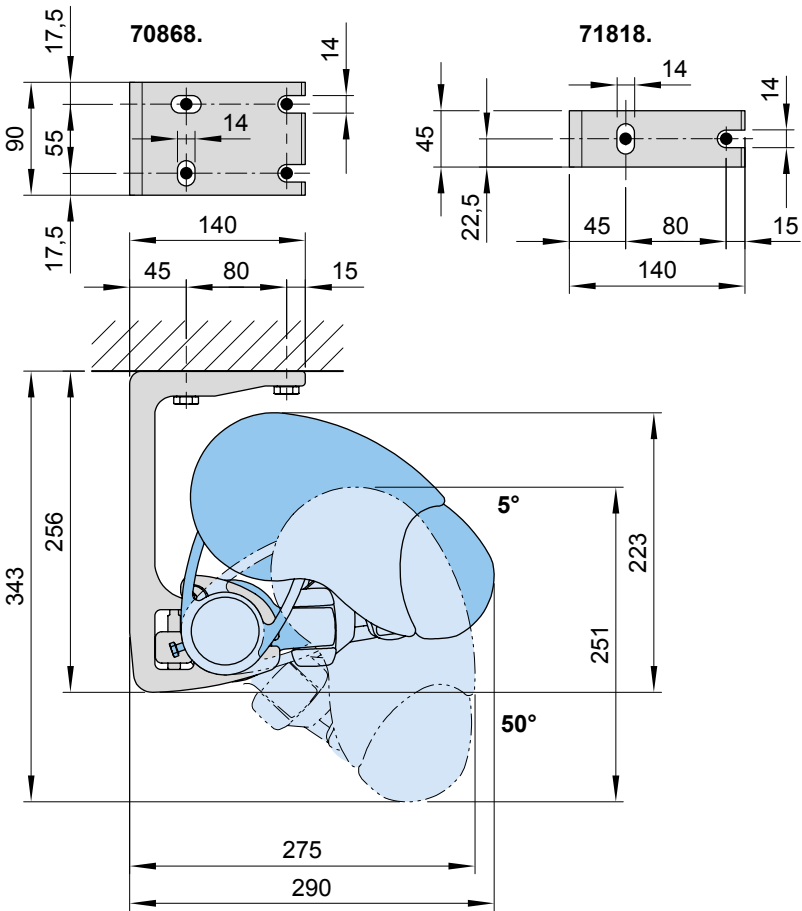
dimensions in mm

Awning with shadeplus

Face fixture



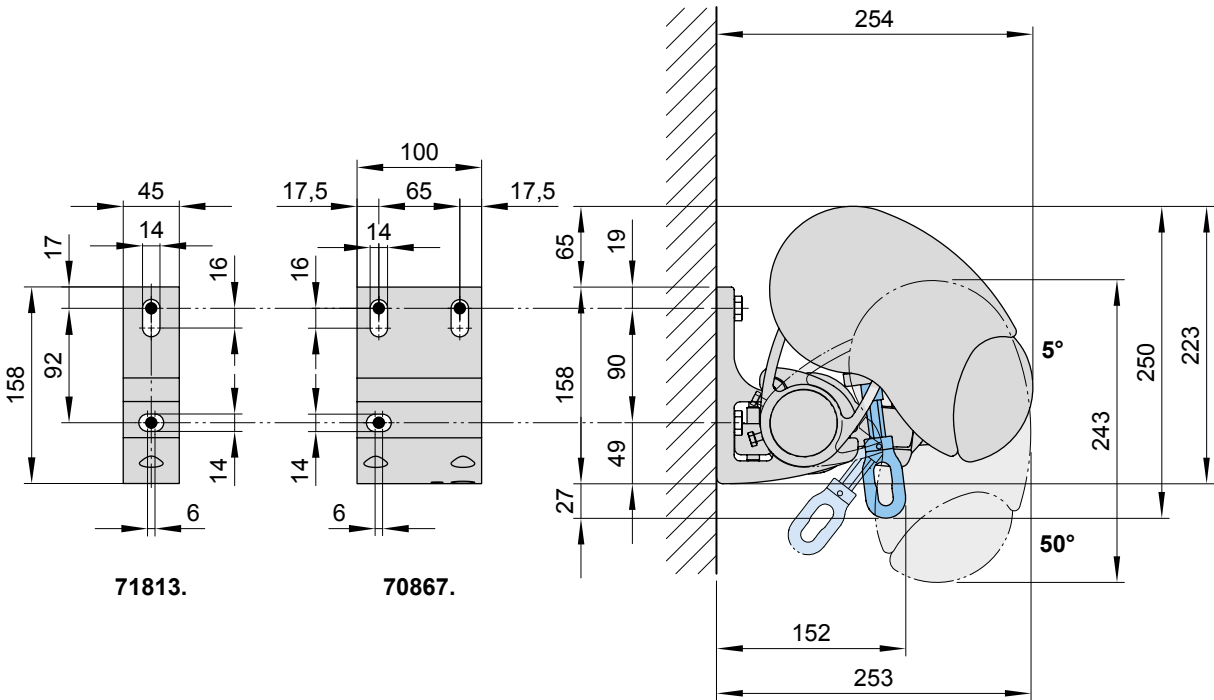
Top fixture



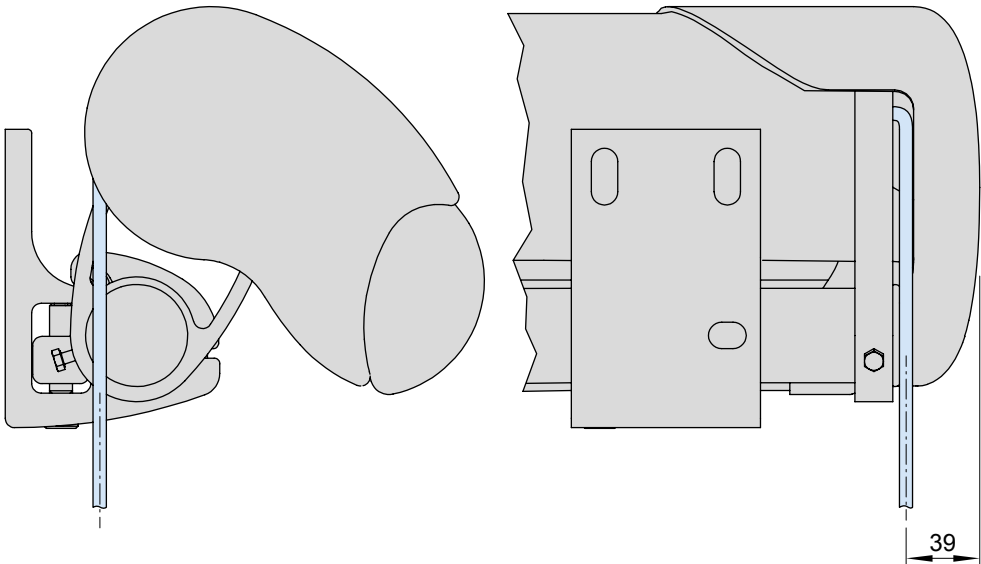
76385. = wall sealing profile (standard width = awning width (M); up to a maximum awning pitch of 25°) dimensions in mm

Face fixture, manual operation

Gearbox eye positions



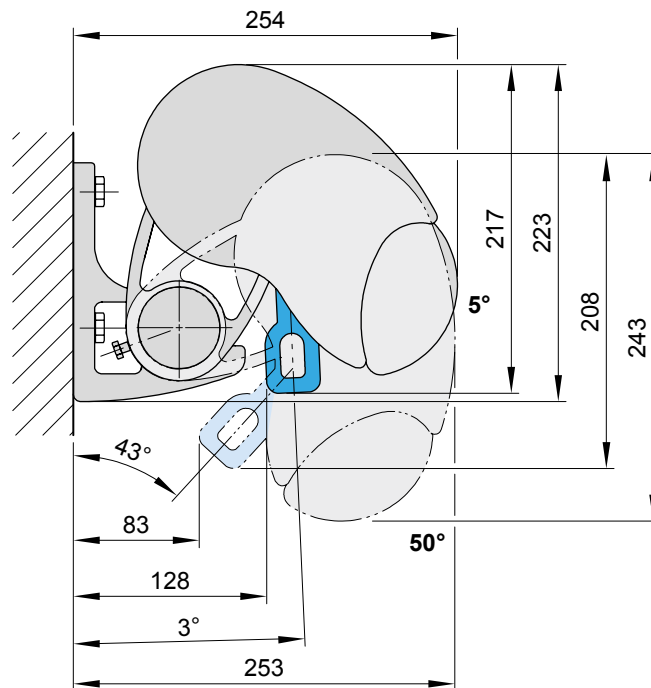
Motor cable exit point



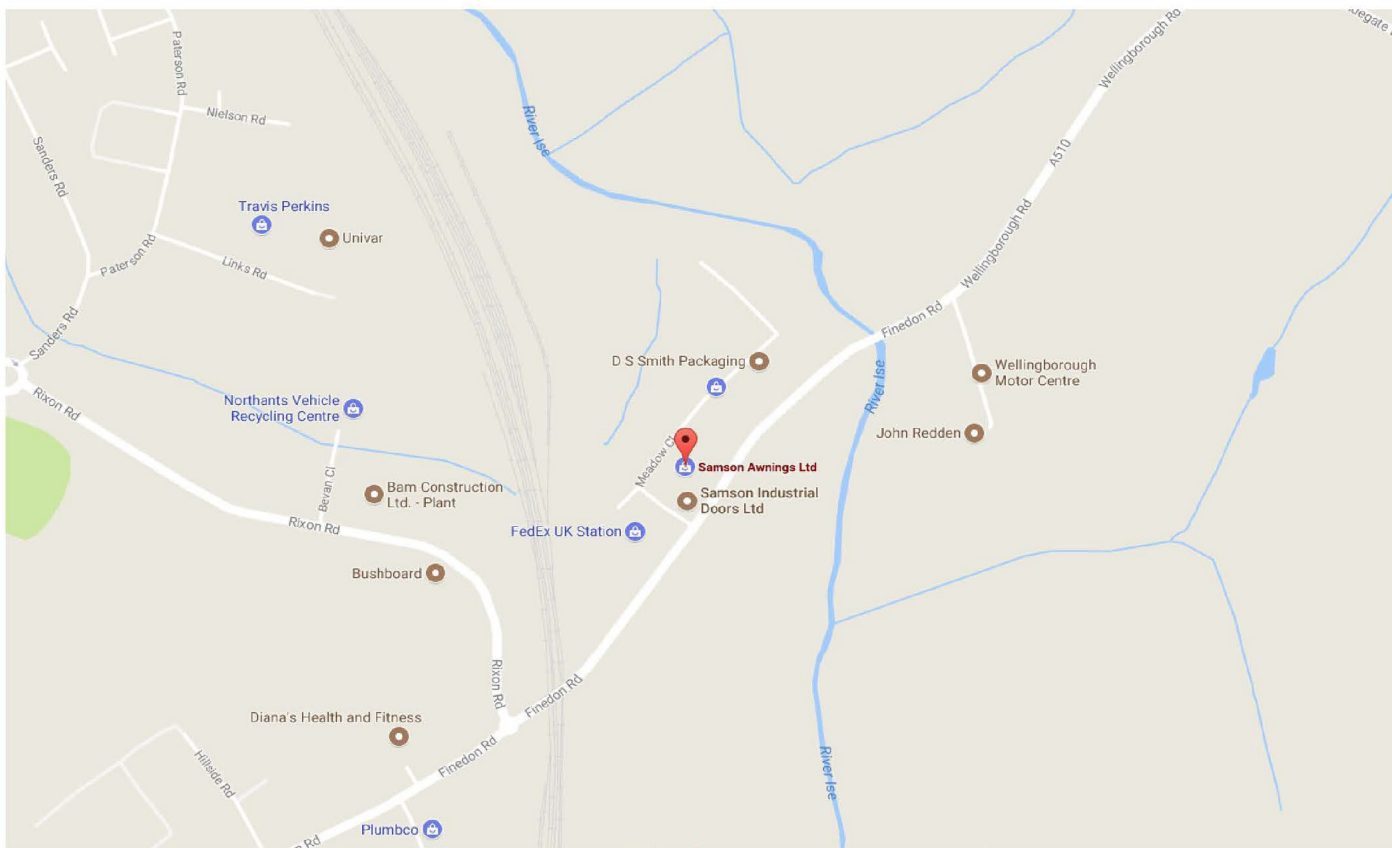
dimensions in mm

Face fixture, radio-controlled motor with manual override

Gearbox eye positions



dimensions in mm



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