Underglass Awning

# markilux 879 / 879 tracfix

Complete harmony of form and function – the underglass awning for large areas. Cleverly designed, the perfect shading solution for glass canopies.

reddot design award
winner 2017

GERMAN DESIGN AWARD WINNER 2018

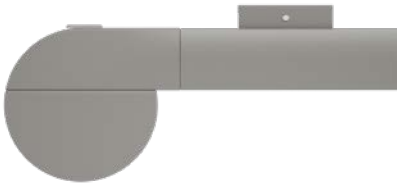
markilux.com

markilux
safe timeless beautiful

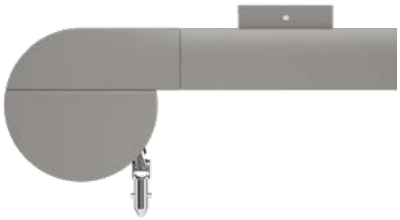
# Product Characteristics

**Wind resistance class 2 | 3 (depending on size)**
**Beaufort 5 → 28–37 km/h → 7.5–10.4 m/s → 17–23 mph |**
**Beaufort 6 → 38–48 km/h → 10.5–13.4 m/s → 24–30 mph**

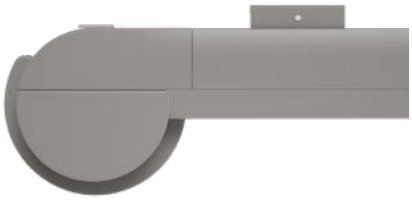
**1** side view: motor drive, flat track bracket



**1** side view: crank handle operation

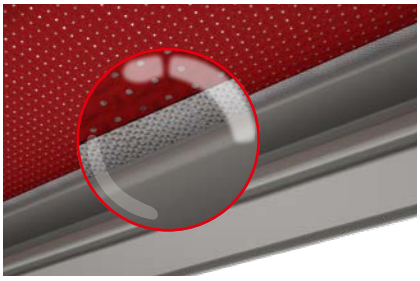


**2** cable feed for lighting options

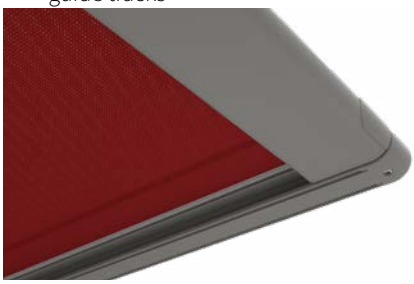


**3** shadeplus during extension

**4** tracfix cover guidance – no gap between cover and track [1)]



**5** when extended, the front profile finishes flush with the end of the guide tracks



**6** LED–Line fitted to the guide track and cover support tube [1)]

**7** LED-Line fitted to the guide track and LED-Spots in the cover support tube [1)]

**8** LED-Line fitted to the guide track [1)], cover support by means of a stainless steel wire

**1)** Optional accessories

# Product Characteristics



**Description**

- underglass awning with attractively shaped, round cassette and harmoniously matched guide tracks
- the ingenious tensioning system and the sturdy design allow areas of up to 27 $m^2$ (with tracfix system 24 $m^2$) to be shaded

**Special features**

- fully encompassing cassette that protects the cover perfectly
- tried and tested tensioning system with drive belts and integrated gas pistons – delivers optimum cover tension in any phase of extension
- tracfix optional: the continuous lateral cover guidance system that leaves no gap between the cover and guide tracks – gives improved wind stability and a cleaner appearance
- various lighting combinations available: light strip LED Line in the guide tracks, LED Line in the cover support tube or LED-Spots fitted to the cover support tube – individually configurable lighting options providing a pleasant atmosphere in the evening
- option of a drop valance with a height of 150 cm or 210 cm (depending on the fabric series chosen) – protection against low-lying sun, wind and inquisitive glances integrated into the front profile, with manual operation
- the broad range of brackets with patented clip-on system offers individual fixture solutions

**Dimensions**

- single unit: 60–600 cm in width, maximum extension 600 cm (depending on the width)
- maximum dimensions, width × extension: 400 × 600 cm / 600 × 450 cm (without tracfix system)
- maximum dimensions, width × extension: 600 × 400 cm (with tracfix system)
- intermediate sizes are available

**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 roller tube bearing is made of stainless steel

**Awning profiles**

- extruded aluminium, in façade quality, powder coated
- cassette profile in two pieces, round, Ø 130 mm
- guide tracks angular, rounded edges, width × height 52 mm × 52 mm
- front profile rounded at the front, depth × height 110 mm ×52 mm, shadeplus profile depth × height 139 mm × 66 mm

**End caps**

- the cassette end caps are made of die-cast aluminium, in two parts, powder coated
- the front profile end caps are made of high-quality plastic, powder coated

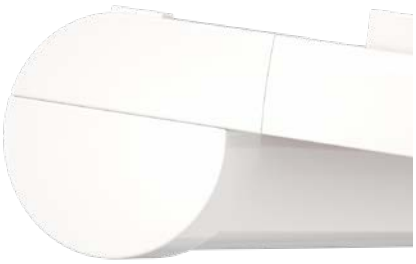
**Fixture brackets**

- extruded aluminium, powder coated
- cassette is self-supporting on guide tracks
- brackets for the guide tracks: flat track brackets, stand-off brackets, reveal fixture
- standard bracket heights: 20 mm / 85 mm / 105–145 mm (bespoke heights can be ordered)
- other accessories are available

# Frame colours

**markilux frame colours without surcharge**

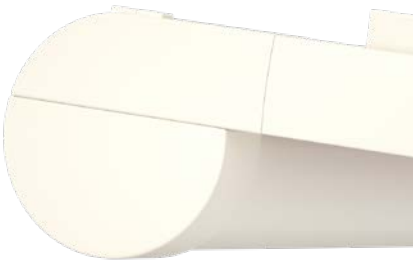
traffic white, RAL 9016



metallic aluminium, RAL 9006

grey brown, similar to RAL 8019

off-white textured finish, 5233 [1)]



stone grey metallic, 5215 [1)]

anthracite metallic, 5204 [1)]

havana brown textured finish, 5229 [1)]

**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.

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

**1)** textured finish

# Dimensions and configuration options

Single unit

| | | Awning fixture width | | | | | | | | | | Minimum fixture width | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | Hard-wired motor | Radio-controlled motor |
| Order dimensions | | 60 – 150 | 151 – 200 | 201 – 250 | 251 – 300 | 301 – 350 | 351 – 400 | 401 – 450 | 451 – 500 | 501 – 550 | 551 – 600 | | |
| Overall width | | + 5,4 | | | | | | | | | | | |
| H | 150 [1] | | | | | | | | | | | 60 [72] | 70 [82] |
| | 200 [1] | | | | | | | | | | | | |
| | 250 [1] | | | | | | | | | | 2) | | |
| | 300 [1] | | | | | | | | 2) | 2) | 2) | | |
| | 350 [1] | | | | | | 2) | 2) | 2) | 2) | 2) | | |
| | 400 [1] | 2) | 2) | 2) | 2) | 2) | 2) | 2) | 2) | 2) | 2) | | |
| | 450 | 2) | 2) | 2) | 2) | 2) | 2) | 2) | 2) | 2) | 2) | 107 [3] | 107 [3] |
| | 500 | 2) | 2) | 2) | 2) | 2) | 2) | — | — | — | — | | |
| | 550 | 2) | 2) | 2) | 2) | 2) | 2) | — | — | — | — | | |
| | 600 | 2) | 2) | 2) | 2) | 2) | 2) | — | — | — | — | | |

dimensions in cm

**1)** = tracfix (optional). Only available with motor

**2)** = meets wind resistance class 2, all other sizes meet wind resistance class 3

**3)** = from an extension of 281 cm

**H** = extension

**[…]** = dimensions in the case of tracfix units

= 2 brackets

= 3 brackets

= 3 brackets, 1 stainless steel cover support wire

| Operation | standard | optional |
|---|---|---|
| crank handle | ✓ [1] | — |
| hard-wired motor | ✓ [2] | — |
| silentec motor (optionally with an external io / RTS receiver [1] | — | — |
| radio-controlled motor io, 868 MHz | — | ✓ |
| radio-controlled motor RTS, 433 MHz | — | ✓ |

**1)** Not with tracfix

**2)** With tracfix

| Shadeplus | standard | optional |
|---|---|---|
| height depends on fabric pattern, see table “Shadeplus cover” | | |
| awning fixture width minimum 201 cm – maximum 500 cm | | |
| crank handle | ✓ | — |
| hard-wired motor | — | — |
| radio-controlled motor io, 868 MHz | — | — |
| radio-controlled motor RTS, 433 MHz | — | — |

## Coupled awnings

not available

## Optional accessories

- tracfix – cover guidance system holding the cover neatly in the guide rails
- shadeplus, manual
- LED-Line attached to the guide tracks
- LED-Line in the lighting bar [1]
- LED-Spots attached to the lighting bar [1]
- infrared heater 2500 W
- infrared heater 2500 W with integrated radio-controlled receiver 868 MHz io
- automatic controls (light, wind, rain)

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

**1)** LED-Line and LED-Spots cannot be combined with one another

**sunvas** Fabric pattern 301.. / 309.. – 315..
**transolair** 339..
**perla FR** 371..[3] / 372..[3]
**smart art** 340..
**sunsilk** 324.. / 325.. / 328.. / 369..

Fabric width 120 cm

| AH / tracfix [1] | Awning fixture width 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|---|---|
| 150 | | | | | | | | | | |
| 200 | | | | | | | | | | |
| 250 | | | | | | | | | | |
| 300 | | | | | | | | | | |
| 350 | | | | | | | | | | |
| 400 | | | | | | | | | | |
| 450 | | | | | | | | | | |
| 500 | | | | | | | | | | |
| 550 | | | | | | | | | | |
| 600 | | | | | | | | | | |

**3)** Only available with tracfix

**sunvas** Fabric pattern 31008[2], -09[2], -13, -16, -18, -25, -27, -28, -31, -36, -37, -57, -58, 31109, -14, -17

Fabric width 250 cm

| AH / tracfix [1] | Awning fixture width 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|---|---|
| 150 | | | | | | | | | | |
| 200 | | | | | | | | | | |
| 240 | | | | | | | | | | |
| 300 | | | | 2) | 2) | 2) | | | | |
| 350 | | | | 2) | 2) | 2) | | | | |
| 400 | | | | 2) | 2) | | | | | |
| 450 | | | | 2) | 2) | | | | | |
| 500 | | | | 2) | 2) | | | | | |
| 550 | | | | 2) | 2) | | | | | |
| 600 | | | | 2) | 2) | | | | | |

**2)** also available in fabric width 320 cm – then seamless

**sunbow** Fabric pattern 411.. - 427..

Fabric width 120 cm

| AH / tracfix [1] | Awning fixture width 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|---|---|---|---|---|---|---|---|---|---|---|
| 150 | | | | | | | | | | |
| 200 | | | | | | | | | | |
| 250 | | | | | | | | | | |
| 300 | | | | | | | | | | |
| 350 | 3) | 3) | 3) | 3) | 3) | 3) | 3) | 3) | 3) | 3) |
| 400 | 3) | 3) | 3) | 3) | 3) | 3) | 3) | 3) | 3) | 3) |
| 450 | | | | | | | | | | |
| 500 | | | | | | | | | | |
| 550 | | | | | | | | | | |
| 600 | | | | | | | | | | |

**3)** Only in tracfix units

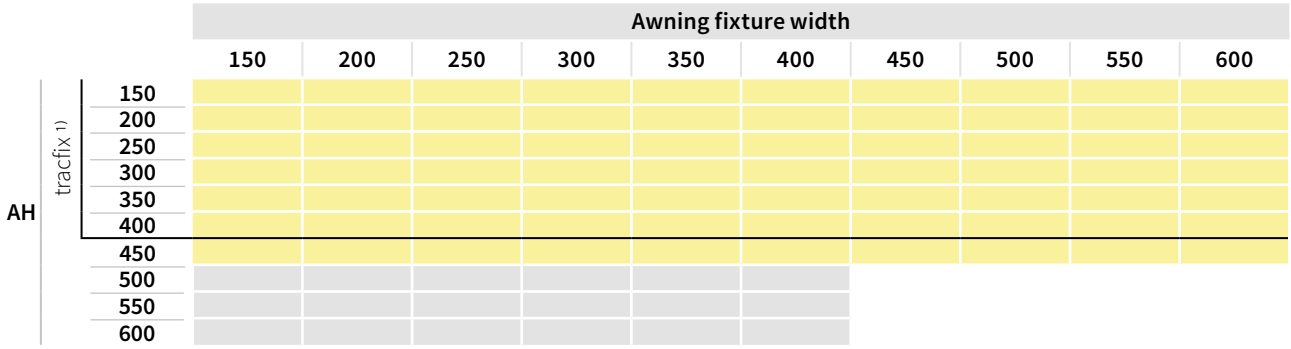
**Note:** The maximum width of the outer panels in tracfix systems with vertical panel joints is 35 cm

= vertical panel joints (panel width approx. 120 cm)
= seamless
= horizontal panel joint(s)
= not available
**AH** = unit height
**1)** = optional

dimensions in cm

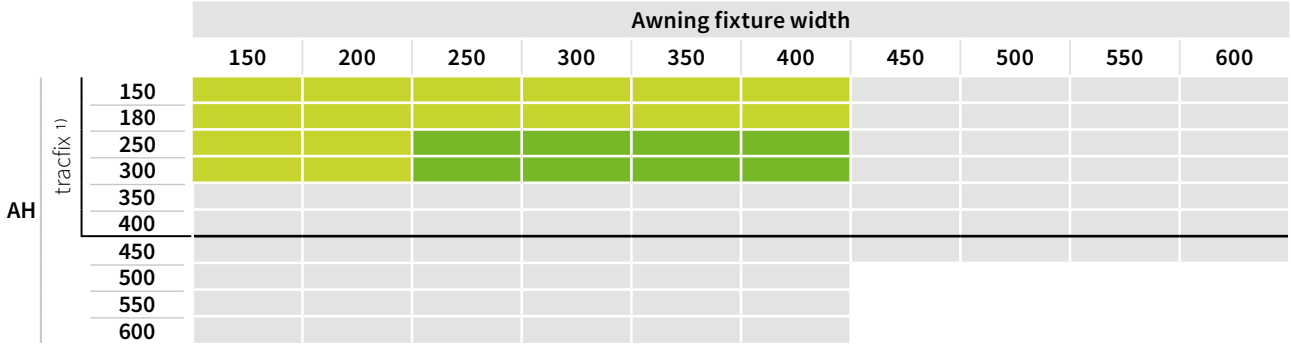
**transolair** Fabric pattern 338..
Fabric width 250 cm

**perfotex** Fabric pattern 331.. / 332..
Fabric width 120 cm




**Serge 600**(only available with tracfix)Fabric pattern 272..
Fabric width 250 cm

**Soltis Perform 92** Fabric pattern 277..
Fabric width 177 cm




**Note:** The maximum width of the outer panels in tracfix systems with vertical panel joints is 35 cm

= vertical panel joints (panel width approx. 120 cm)
= seamless
= horizontal panel joint(s)
= not available
**AH** = unit height
**1)** = optional

dimensions in cm

| Awning cover | fabric pattern no. | standard | optional |
|---|---|---|---|
| sunvas | 300..–315.. | ✓ | — |
| sunsilk | 324.. / 325.. / 328.. / 369.. | ✓ | — |
| sunbow[2)] | 411..–427.. | ✓ | — |
| smart art | 340.. | — | ✓ |
| perla FR | 371.. / 372.. | — | ✓ [1)] |
| perfotex | 331.. / 332.. | ✓ | — |
| transolair | 338.. | — | ✓ |
| transolair (120 cm) | 339.. | — | ✓ |
| Soltis Perform 92 | 92–20.. | — | ✓ |
| Serge 600 | 272.. | — | — |

**1)** Only in tracfix units

**2)** Up to max. 400 cm projection available, without tracfix up to max. 300 cm projection available

| shadeplus / drop valance cover [1)] | fabric pattern no. | standard | optional | Awning fixture width | height | tailored cloth |
|---|---|---|---|---|---|---|
| sunvas | 309.. / 310.. / 311.. | ✓ | — | ≤ 500 | 210 | QN |
| sunsilk | 324.. / 325.. | ✓ | — | ≤ 500 | 210 | QN |
| sunbow | 411.. / 414.. / 421.. / 424.. | ✓ | — | ≤ 500 | 210 | QN |
| transolair | 338.. | — | ✓ | ≤ 500 | 210 | N |
| transolair (120 cm) | 339.. | — | ✓ | ≤ 500 | 210 | QN |
| Soltis Perform 92 | 92–20.. | — | ✓ | ≤ 500 | 210 | QN |
| Serge 600 | 272.. | — | — | | | |
| perfotex | 331.. / 332.. | — | — | | | |
| perla FR | 371.. / 372.. | — | — | | | |

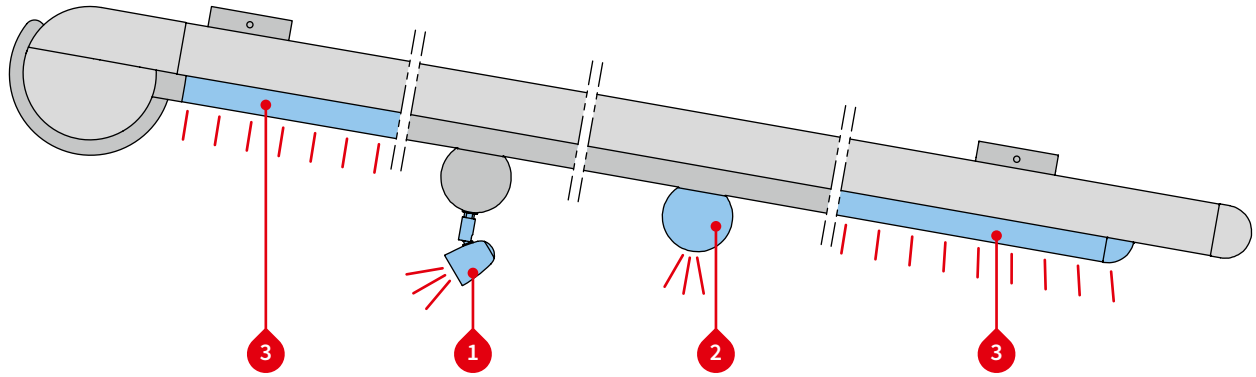
**1)** Shadeplus cover is narrower than the awning cover

**N** = Seemless

**QN** = horizontal seam(s)

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

# Lighting options




| Lighting options | |
|---|---|
| 1 | LED-Spots attached to the lighting bar [1] |
| 2 | LED-Line in the lighting bar [1] |
| 3 | LED-Line in the guide tracks on both sides |

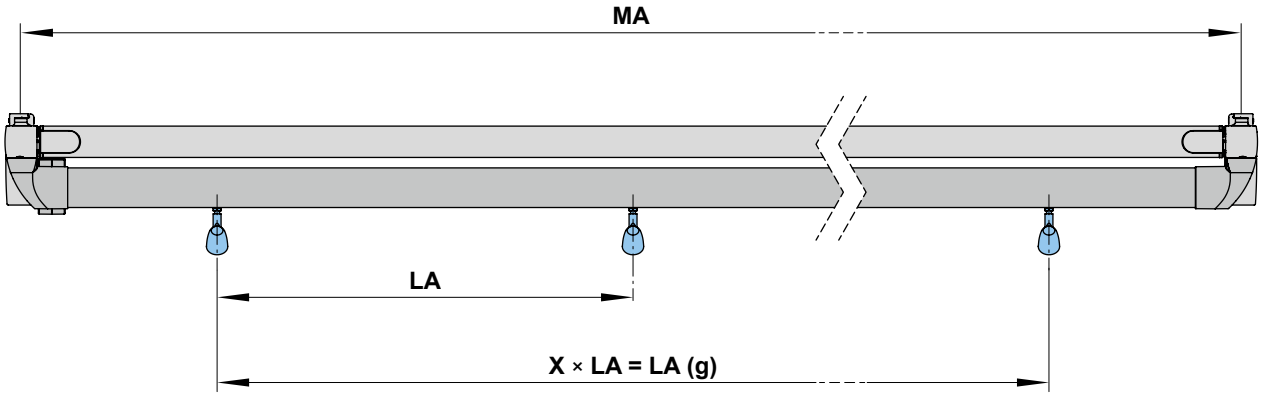
| Controls | standard | optional |
|---|---|---|
| on/off switch | — | ✓ |
| radio-controlled dimmer io 868 MHz | ✓ | — |
| radio-controlled dimmer RTS 433 MHz | — | ✓ |

For combination possibilities please view section “Dimension overview lighting options”

**1)** LED-Line and LED-Spots cannot be combined with one another

# Distribution of the LED-Spots

1 LED-Spots in the cover support tube




| Awning fixture width | no. of spots | LA | LA (g) |
|---|---|---|---|
| **150–250** | 3 | 65 | 130 |
| **251–300** | 3 | 98 | 196 |
| **301–350** | 3 | 98 | 196 |
| **351–400** | 4 | 98 | 294 |
| **401–450** | 4 | 98 | 294 |
| **451–500** | 5 | 98 | 392 |
| **501–550** | 5 | 98 | 392 |
| **551–600** | 6 | 98 | 490 |

dimensions in cm

**LA (g)** = distance between the spots (total)
**MA** = **order dimension** = blind fixture width = fixture width

01

1 LED-Spots attached to the light bar

02

**Technical specification**

| | |
|---|---|
| operating voltage | 230 V, 50 Hz |
| power output of one LED spotlight | 5 W |
| light source | LED (12 V) |
| number of transformers | 1 unit |
| light temperature | warm white |
| IP protection class | IP 44 |
| service life | approx. 20.000 h |

07

08

09

10 2 including 3 LED-Line im Tuchstützrohr und in den Führungsschienen

11 **Technical specification**

| | |
|---|---|
| operating voltage | 230 V, 50 Hz |
| power output per metre | 10 W / m |
| light source | LED (12 V) |
| number of LEDs | 120 units / m |
| number of transformers | 1 unit |
| light temperature | warm white |
| IP protection class | IP 44 |
| service life | approx. 15.000 h |

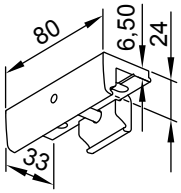
16

17

18

19

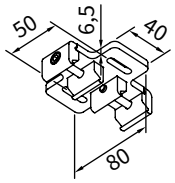
# Fixtures, fittings and accessories




flat track bracket

fixture type 10 and 15

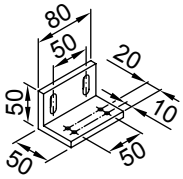
**78548.**




double track bracket plat

2 single units

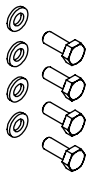
**73627.**




additional angled bracket for the bearing, gearbox and motor sides
50 × 50 × 80 mm

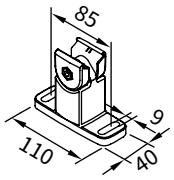
fixture type 15

**78719.**



accessories
for two angled brackets 78719.

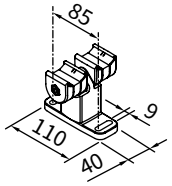
**787211**




track bracket, with adjustable head
80 mm

fixture type 20

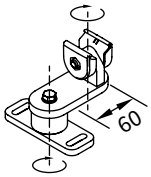
**73624.**




double track bracket with adjustable head
80 mm

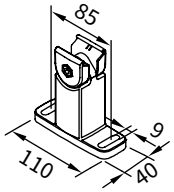
central bracket for 2 single units next to each other

**73631.**




windmill track bracket
80 mm

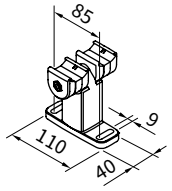
**73629.**




track bracket, with adjustable head

100 mm

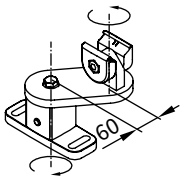
**76046.**




double track bracket with adjustable head
100 mm

central bracket for 2 single units next to each other

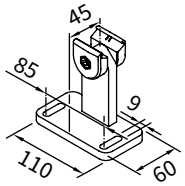
**73634.**




windmill track bracket

100 mm

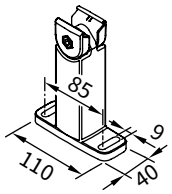
**76054.**




track bracket with offset footplate

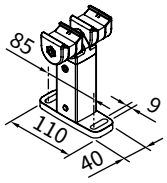
100 mm

**76199.**




track bracket, with adjustable head
140 mm

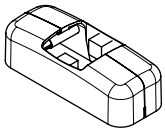
**76048.**




double track bracket with adjustable head
140 mm

central bracket for 2 single units next to each other

**73636.**

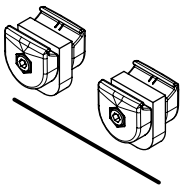


covering cap
for square track bracket

standard accessory for bracket

**2 × 76718.**

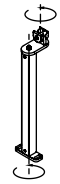
# Fixtures, fittings and accessories



sprung bracket with
stainless steel cover
support wire

included with
the delivery

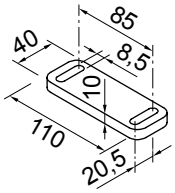
**73639. and 771401.**



universal track bracket
with adjustable head

140–500 mm

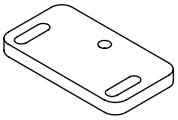
**76053.**




spacer plate
for track bracket

110 × 40 × 10 mm

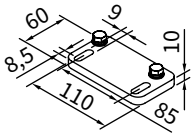
**78570.**



adapter plate
for track bracket

110 × 60 × 10 mm

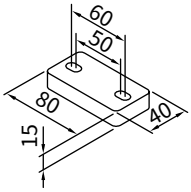
**78158.**




adapter plate
for track bracket

110 × 60 × 10 mm

**78165.**




spacer plate
double track bracket
flat

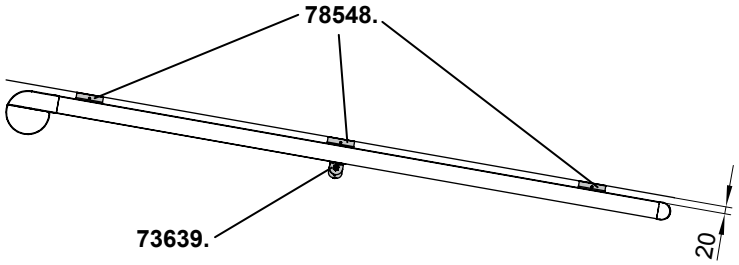
80 × 40 × 15 mm

**73742.**

# Fixture types

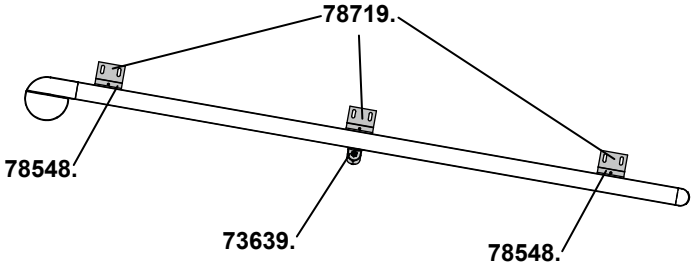
## 10

Clearance 20 mm



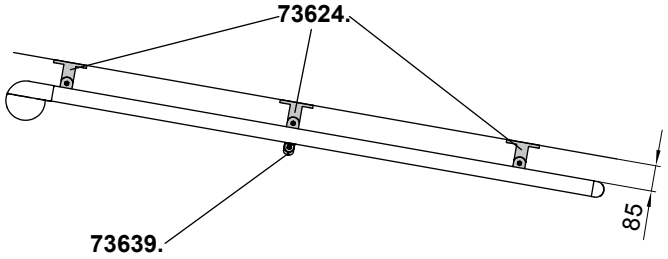

## 15

By angled bracket to the side



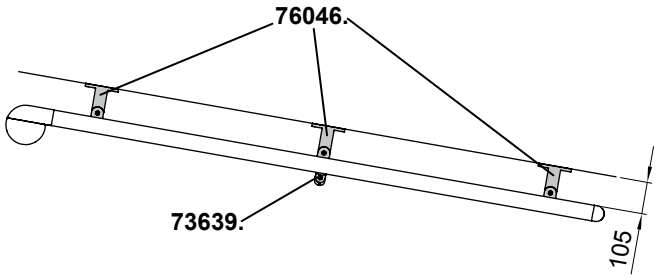

## 20

Clearance 85 mm



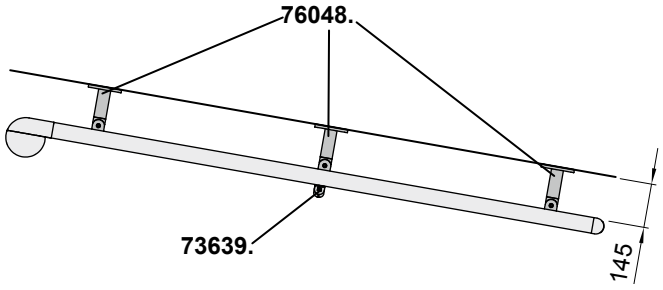

## 21

Clearance 105 mm




## 22

Clearance 145 mm




**Individual bracket selection:**

See “Fixtures, fittings and accessories”.
Awning extension > 300 cm, always 3 brackets per guide track.

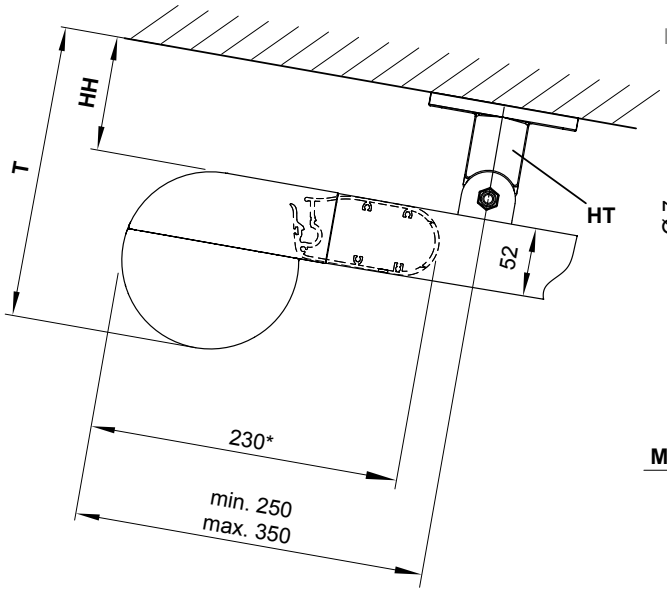
During extension and retraction the cover may sag.

Cover support wires and bracket (73639.) are only supplied with the markilux 879 without tracfix.
A bracket should always be placed where these are positioned.

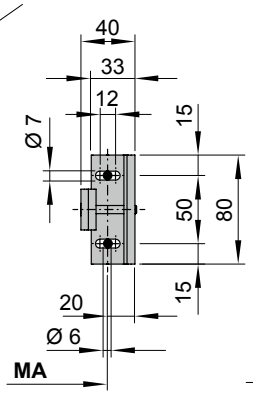
dimensions in mm

# Fixture types

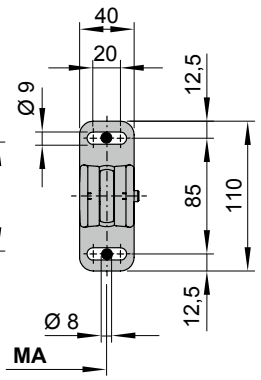
## Overview of dimensions




Fixture type 10




Fixture type 20, 21, 22

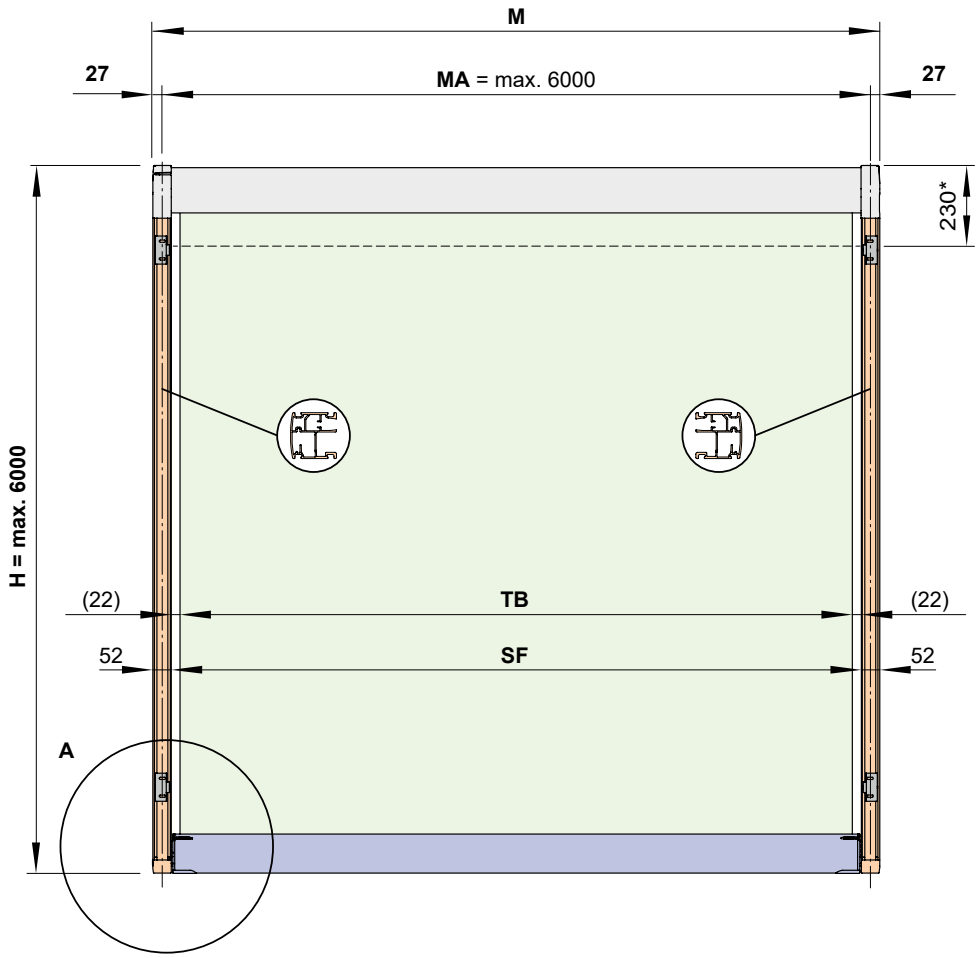


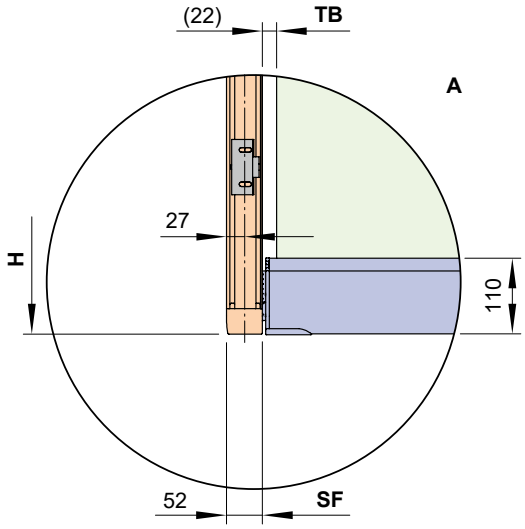

| | | | Fixture type 10 | Fixture type 20 | Fixture type 21 | Fixture type 22 |
|---|---|---|---|---|---|---|
| **HT** | = | bracket | **78548.** | **73624.** | **76046.** | **76048.** |
| **HH** | = | bracket height | 20 | 85 | 105 | 145 |
| **T** | = | depth | 150 | 215 | 235 | 275 |
| * | = | extension when retracted | | | | |
| **MA** | = | **order dimension** = blind fixture width = fixture width | | | | |

dimensions in mm

# Overview of dimensions

Single unit



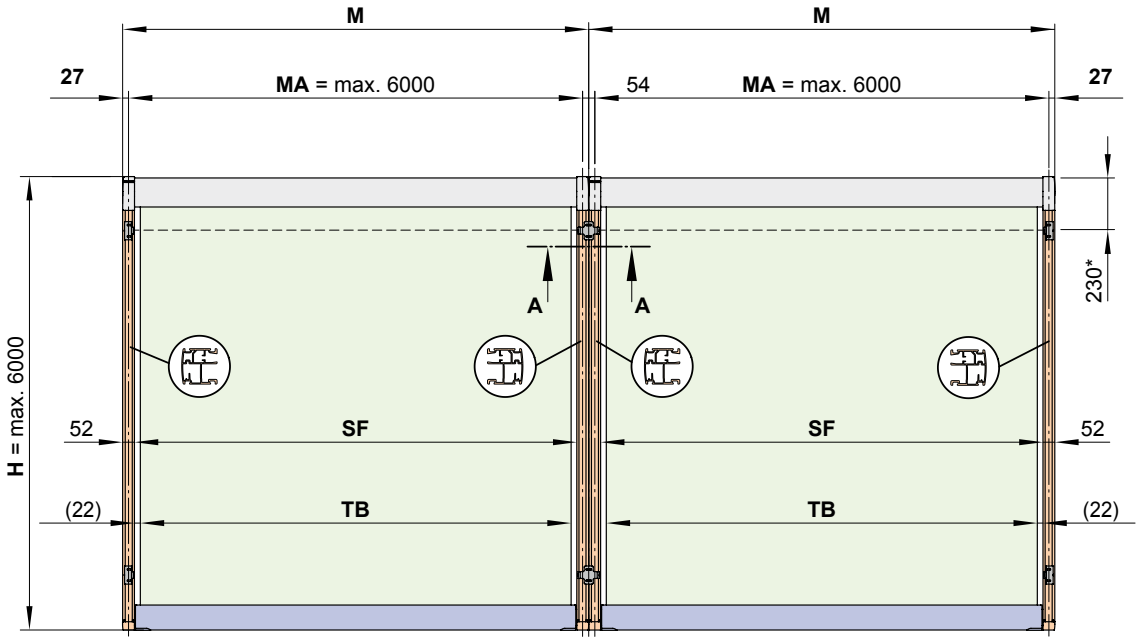



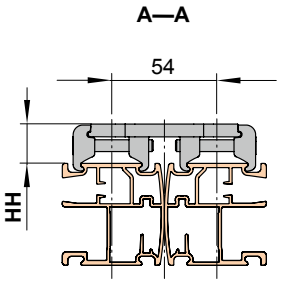

* = extension when retracted
**(…)** = gap between cover and guide track (non-tracfix units)
**H** = **order dimension** = extension
**M** = awning width
**MA** = **order dimension**= awning fixture width = fixture width
**SF** = visible cover (in tracfix systems)
**TB** = cover width (in non-tracfix systems)

dimensions in mm

# Overview of dimensions

**Two single units – fixture via double track brackets**

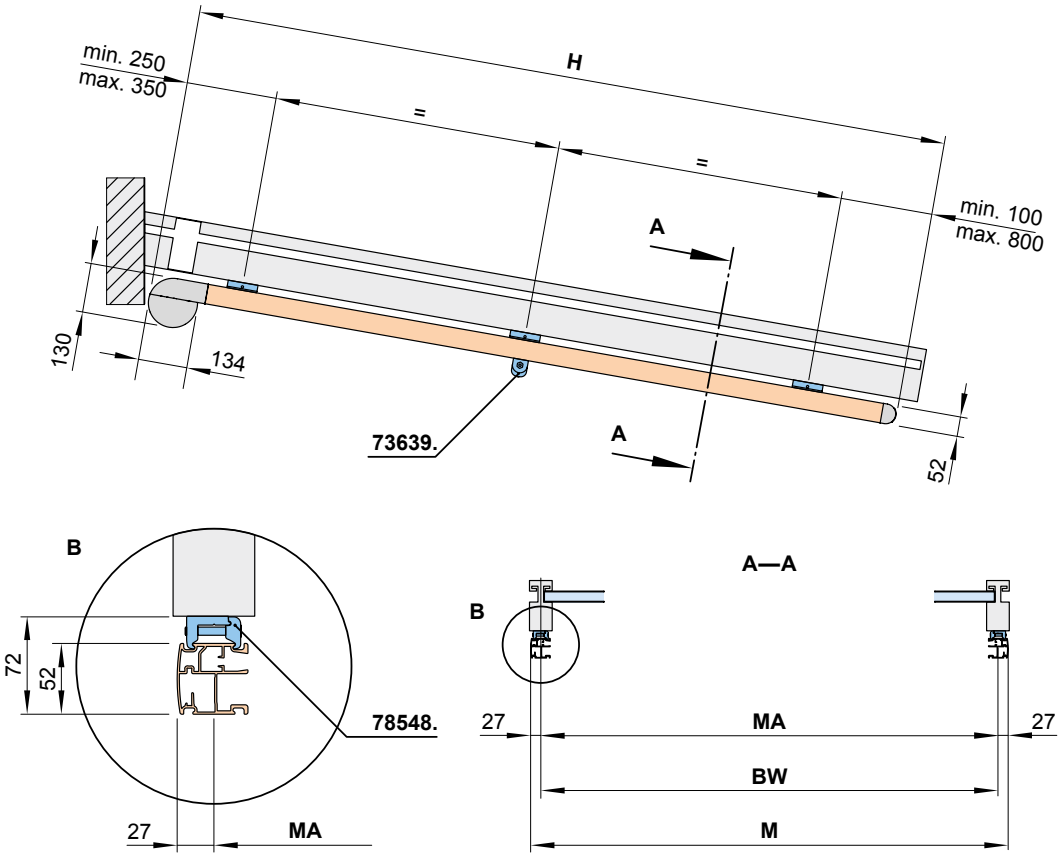



* = extension when retracted
**(…)** = gap between cover and guide track (non-tracfix units)
**H** = **order dimension** = extension
**HH** = bracket height
**M** = awning width
**MA** = **order dimension** = blind fixture width = fixture width
**SF** = visible cover (in tracfix systems)
**TB** = cover width (in non-tracfix systems)

dimensions in mm

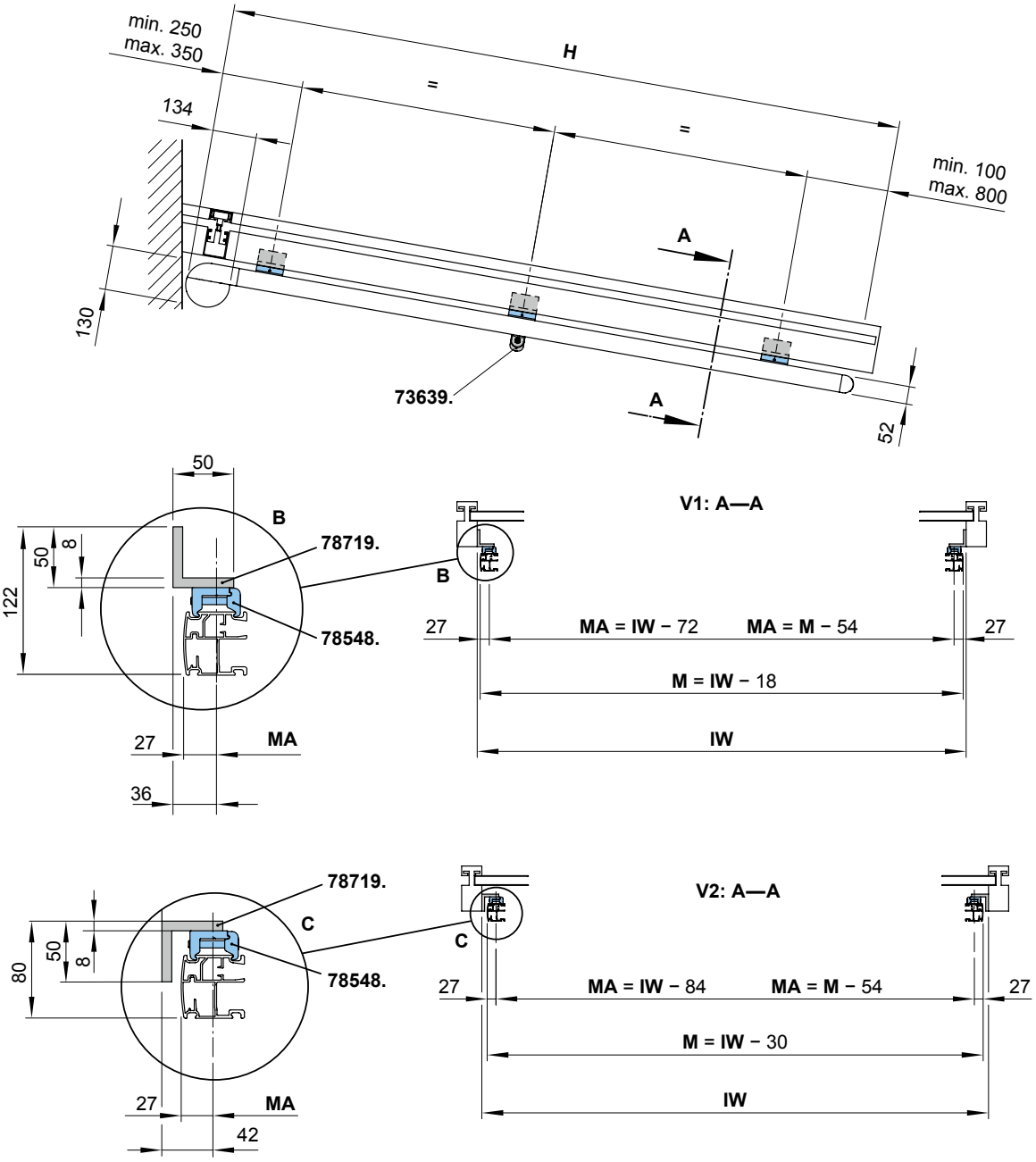
# Dimension overview fixture combination 10




**BW** = width between fixture points on the conservatory
**H** = **order dimension** = extension
**M** = awning width
**MA** = **order dimension** = blind fixture width = fixture width

dimensions in mm

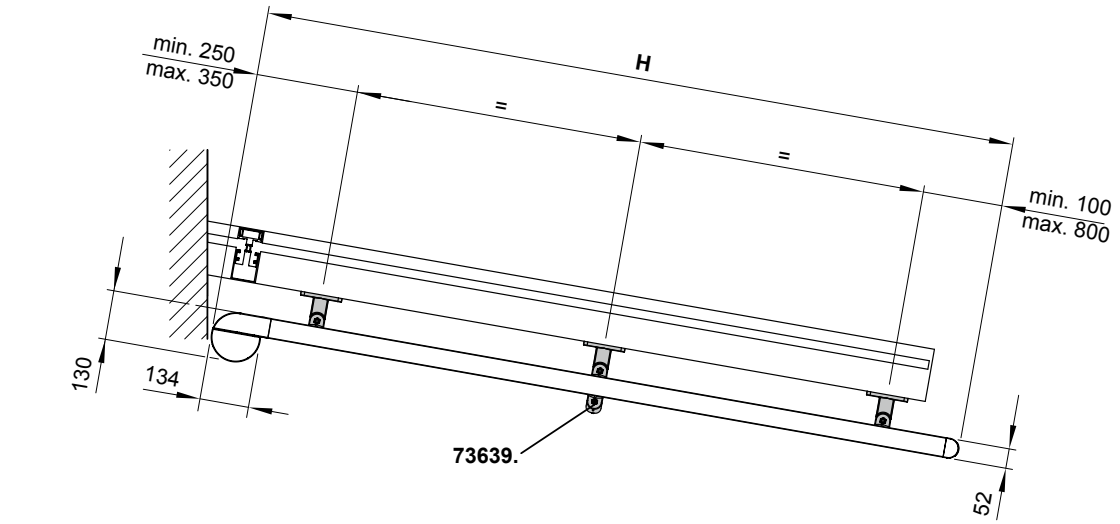
# Dimension overview fixture combination 15

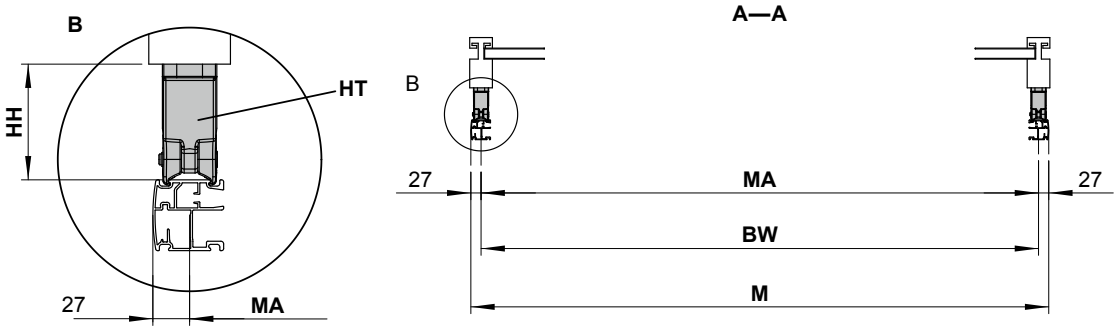



**H** = **order dimension** = extension
**IW** = interior conservatory dimension
**M** = awning width
**MA** = **order dimension** = blind fixture width = fixture width
**V1, V2** = variants

dimensions in mm

# Dimension overview fixture types 20, 21, 22



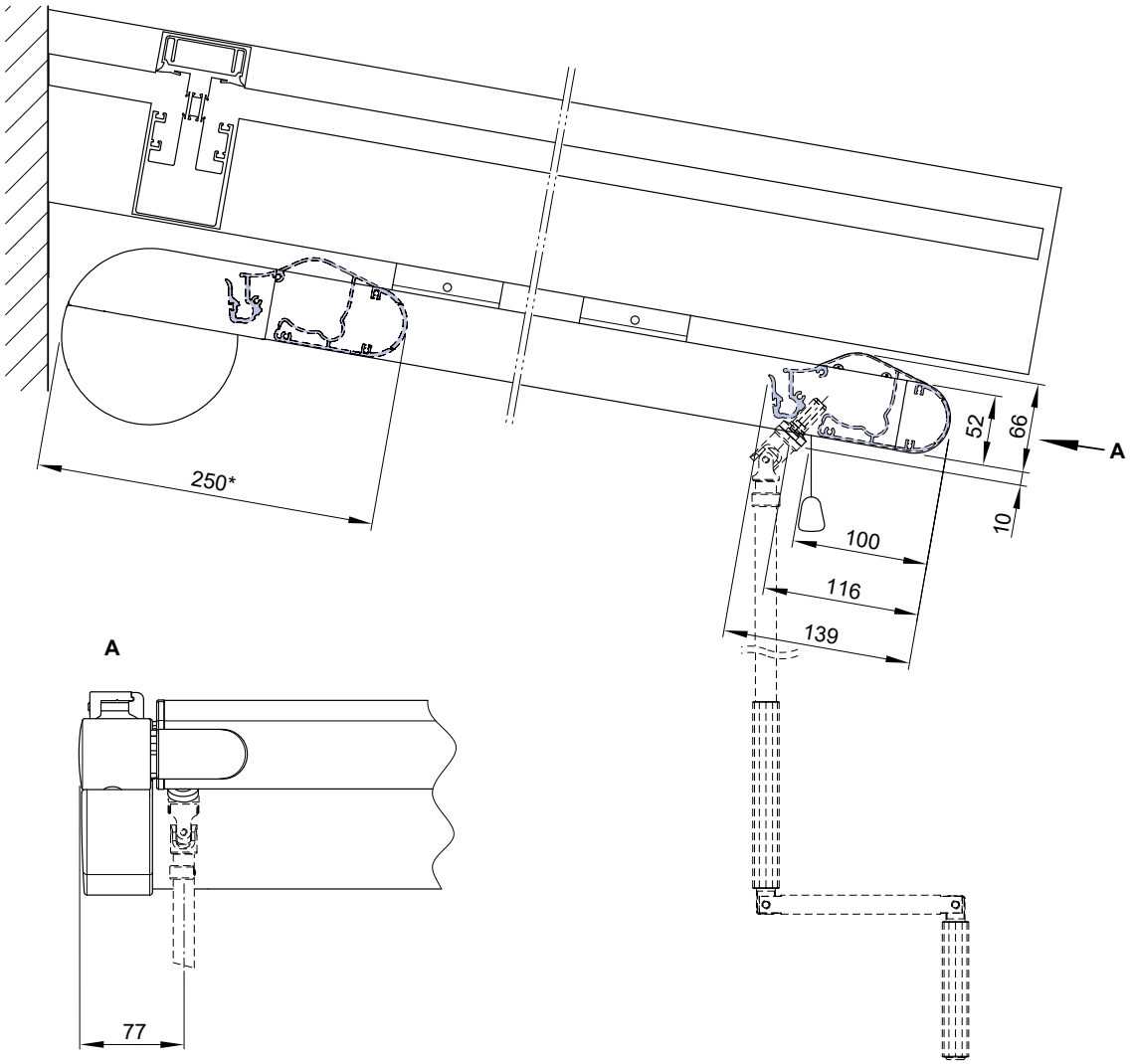




**BW** = width between fixture points on the conservatory
**H** = **order dimension** = extension
**HH** = bracket height (see for fixture types 10, 20, 21 und 22)
**HT** = bracket
**M** = awning width
**MA** = **order dimension** = blind fixture width = fixture width

dimensions in mm

# Dimension overview, shadeplus

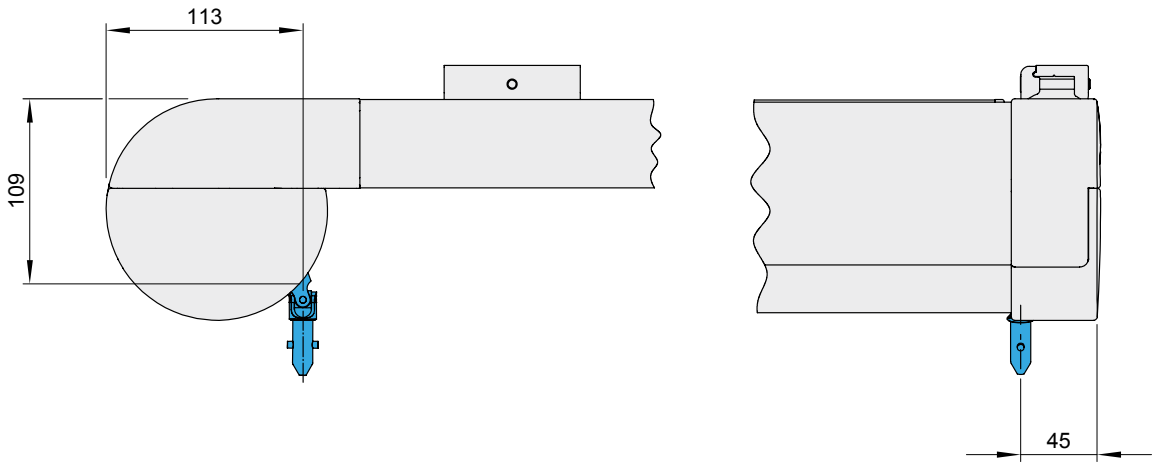
Magnetic gearbox operation



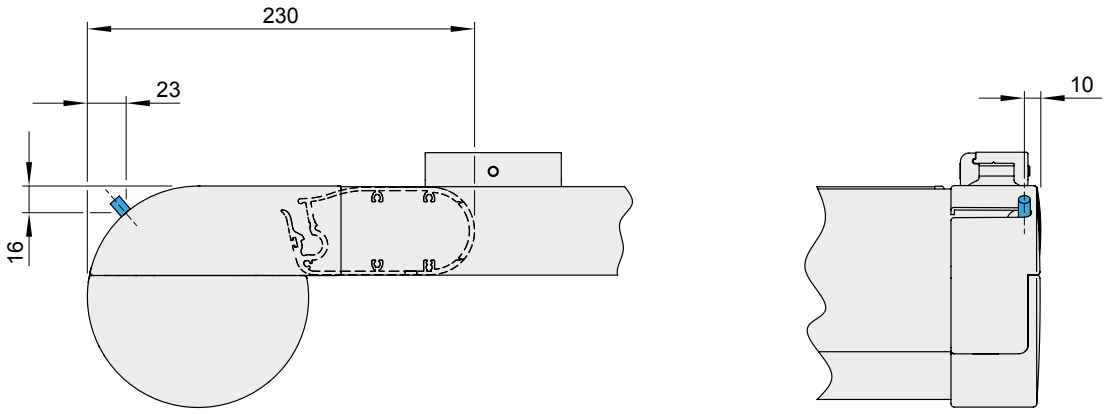

* = extension when retracted

dimensions in mm

## Gearbox crank handle position



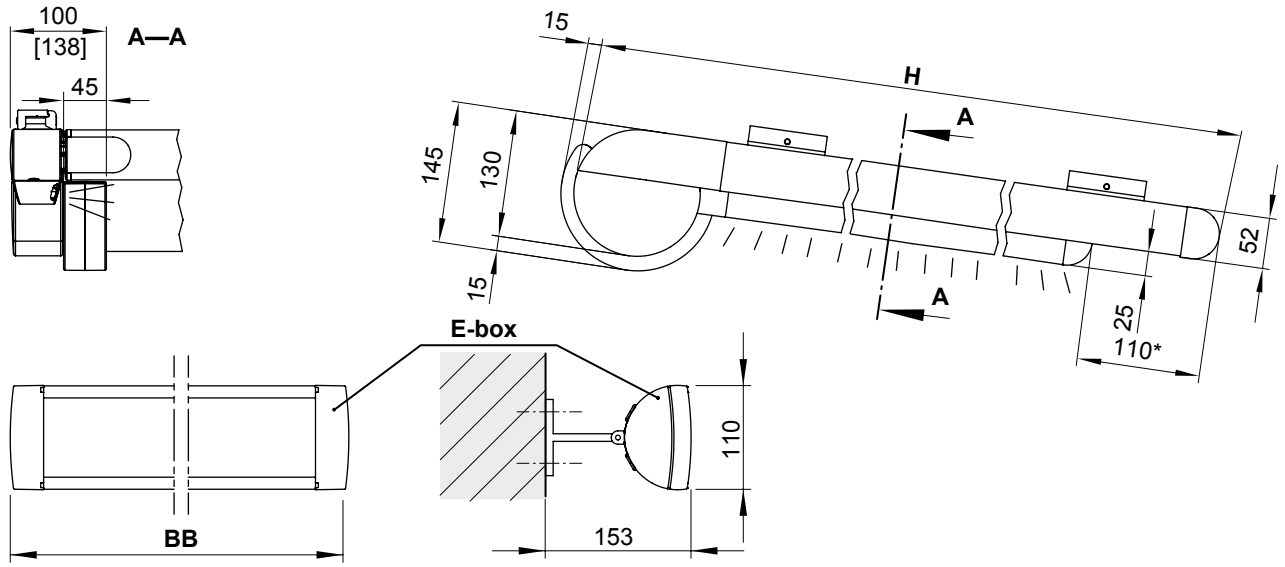

## Motor cable exit point



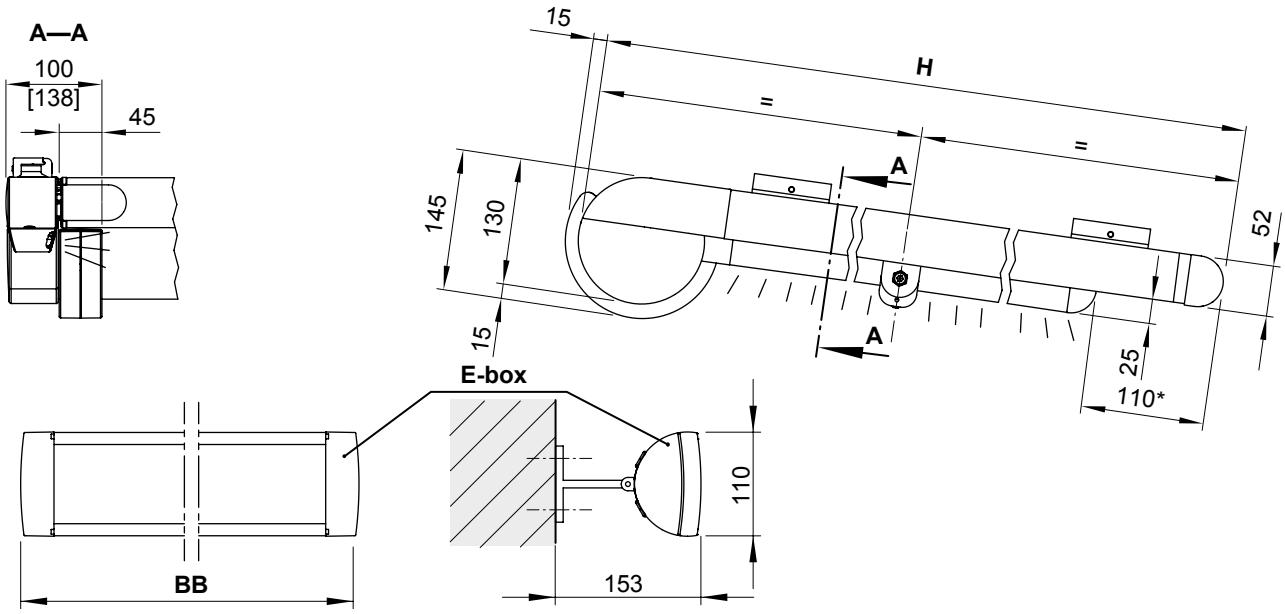

dimensions in mm

# Dimension overview with the various lighting options

**Option 1: LED-Line in the guide tracks, electronic components in an E-box**




**Option 1a (from an extension 401 cm): LED-Line in the guide tracks, stainless steel cover support wires, electronic components in an E-box**



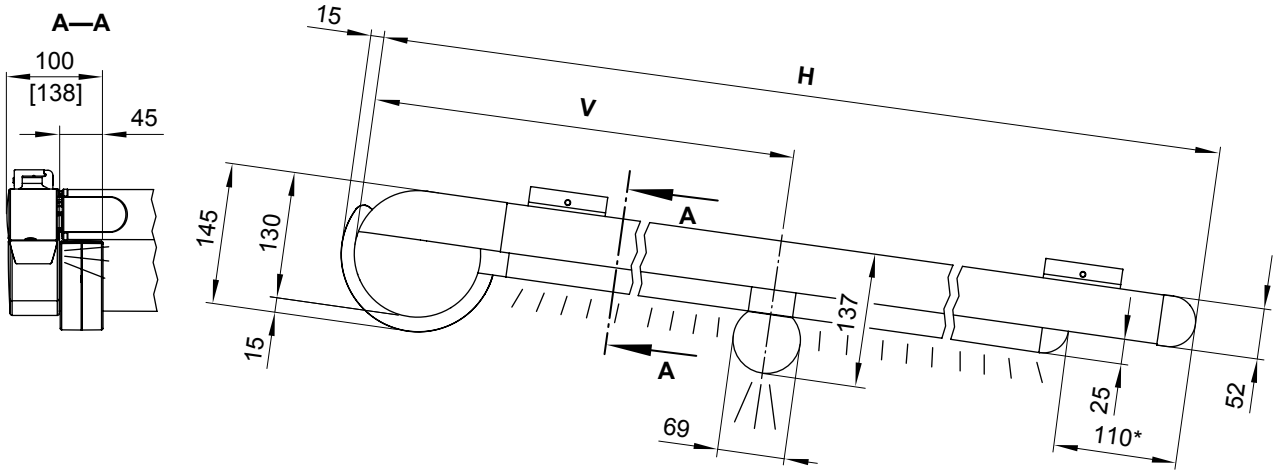

* = 110 mm standard, 36 mm optional
** = cover support wire centred (standard), other positions are possible on request
**[…]** = for shadeplus and lighting
**BB** = order width
**E-box** = see “E-box”
**H** = **order dimension** = extension

dimensions in mm

# Dimension overview with the various lighting options

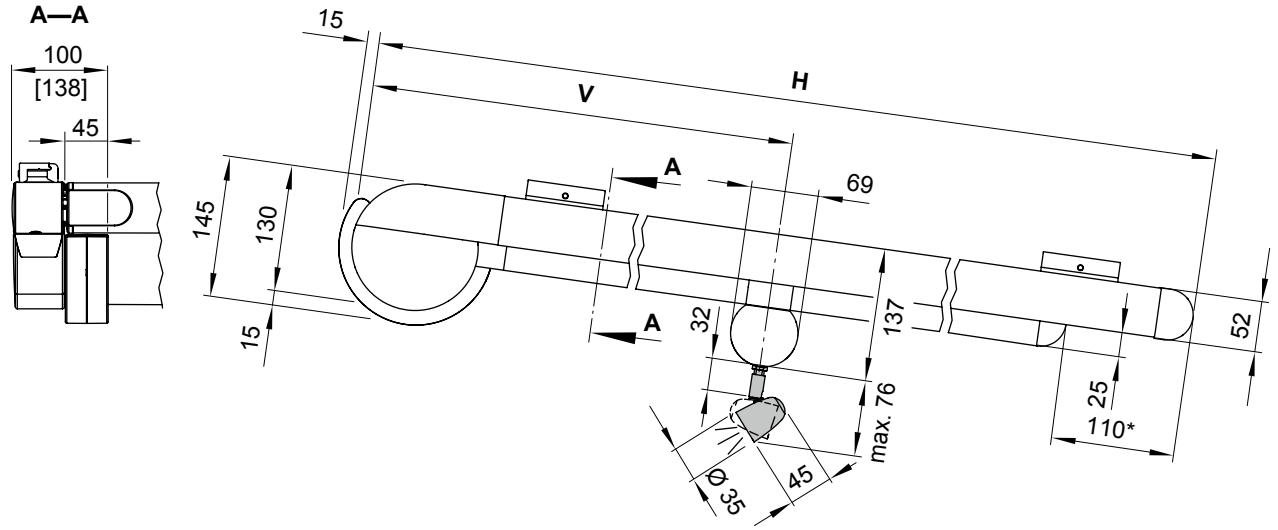
**Option 2: LED-Line in the cover support tube, electronic components in the cover support tube**

**Option 3: LED-Line in the cover support tube and in the guide tracks, electronic components in the cover support tube**




**Option 4: LED-Line in two cover support tubes, electronic components in the cover support tube**

**Option 5: LED-Line in two cover support tubes and in the guide tracks, electronic components in the cover support tube**

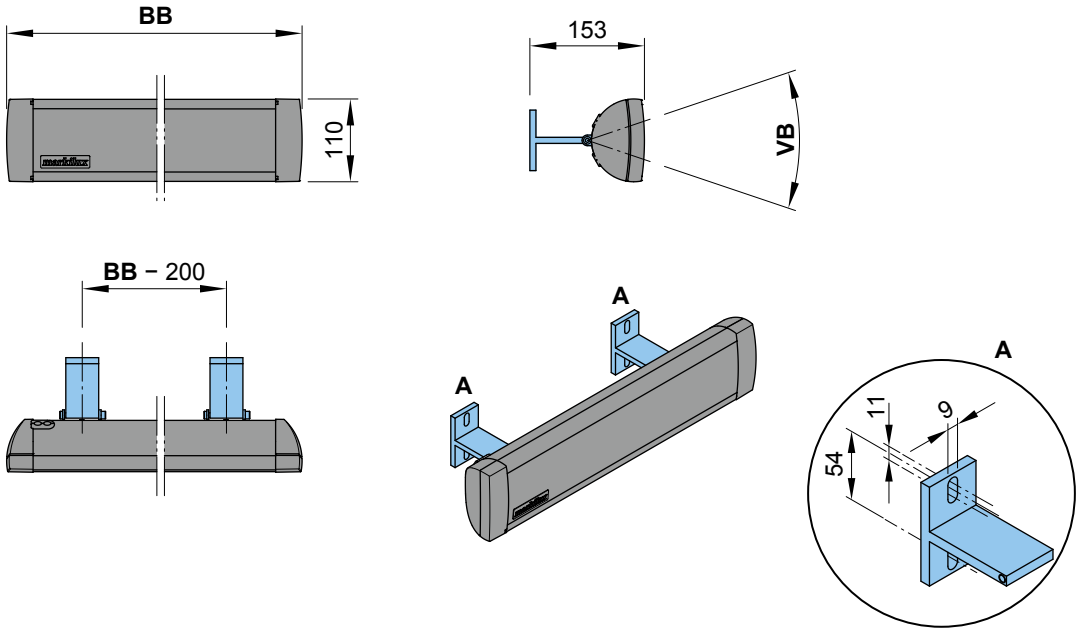



| | | |
|---|---|---|
| * | = | 110 mm standard, 36 mm optional |
| […] | = | for shadeplus and lighting |
| H | = | **order dimension** = extension |
| V | = | lighting distance from back of cassette. Standard: centred (V = H ÷ 2). Optionally this can be stipulated when ordering (V min. = 500 mm. V max = H − 500 mm) |
| Y | = | distance rear cassette edge to center of 1. support tube |
| Z | = | distance center of 1. to 2. support tube |

dimensions in mm

# E-box

## Overview of dimensions




## Dimension overview and applications

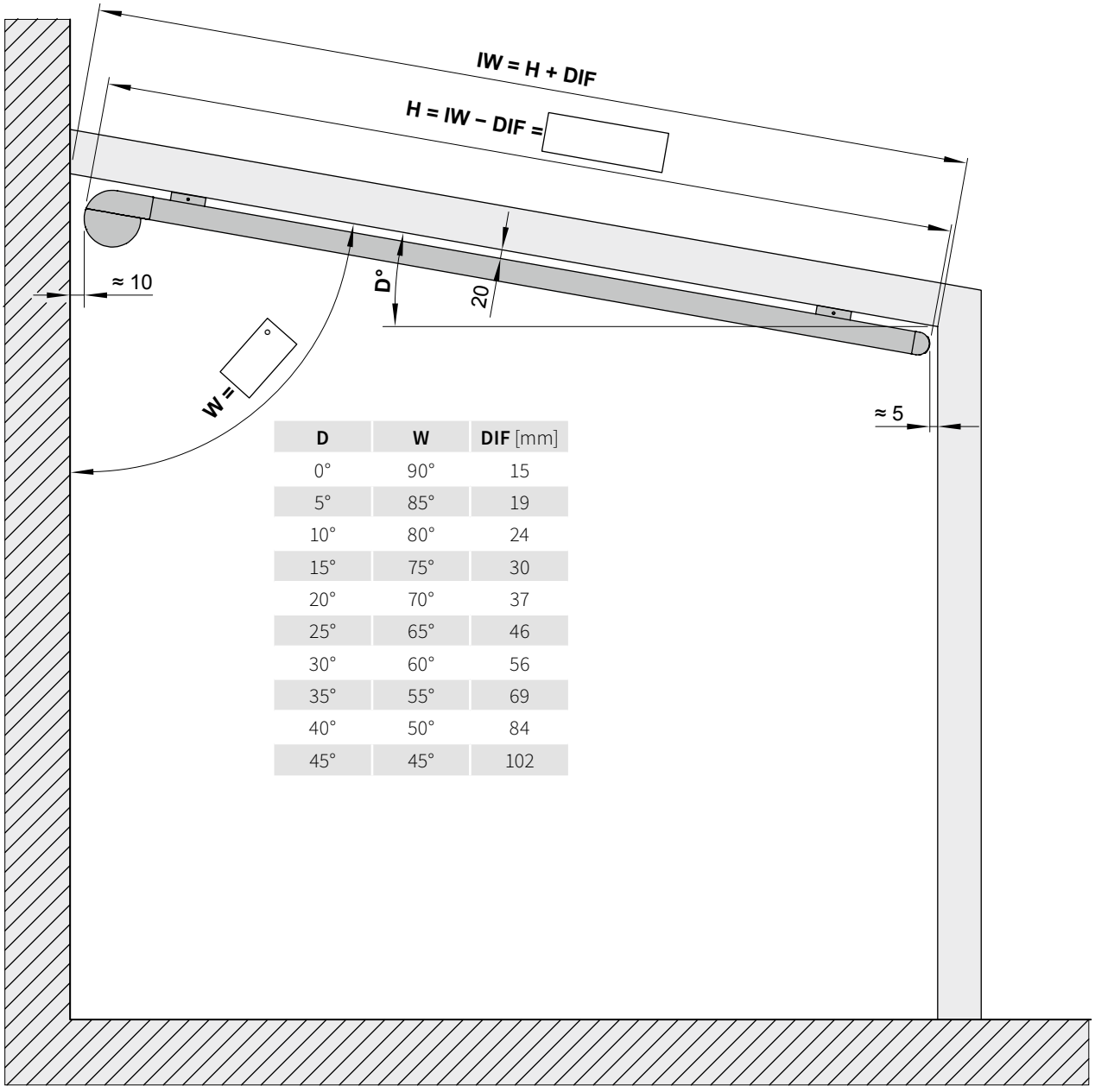
| wireless technology | 433 RTS MHz | | 868 MHz io | |
|---|---|---|---|---|
| Extension **H [cm]** | < 330 cm | ≥ 330 cm | < 330 cm | ≥ 330 cm |
| **Lighting options** | | | | |
| LED-Line in the guide tracks with or without cover support wire | E-box **M** **71850.** BB = **500** mm | E-box **G** **71873.** BB = **700** mm | E-box **M** **71850.** BB = **500** mm | |
| for independent use | E-box **I** **71851.** BB = **to order** | | | |

**BB** = order width
**VB** = adjustment range

dimensions in mm

# Dimensions for taking measurements

Awning without lighting




| D | W | DIF [mm] |
|---|---|---|
| 0° | 90° | 15 |
| 5° | 85° | 19 |
| 10° | 80° | 24 |
| 15° | 75° | 30 |
| 20° | 70° | 37 |
| 25° | 65° | 46 |
| 30° | 60° | 56 |
| 35° | 55° | 69 |
| 40° | 50° | 84 |
| 45° | 45° | 102 |

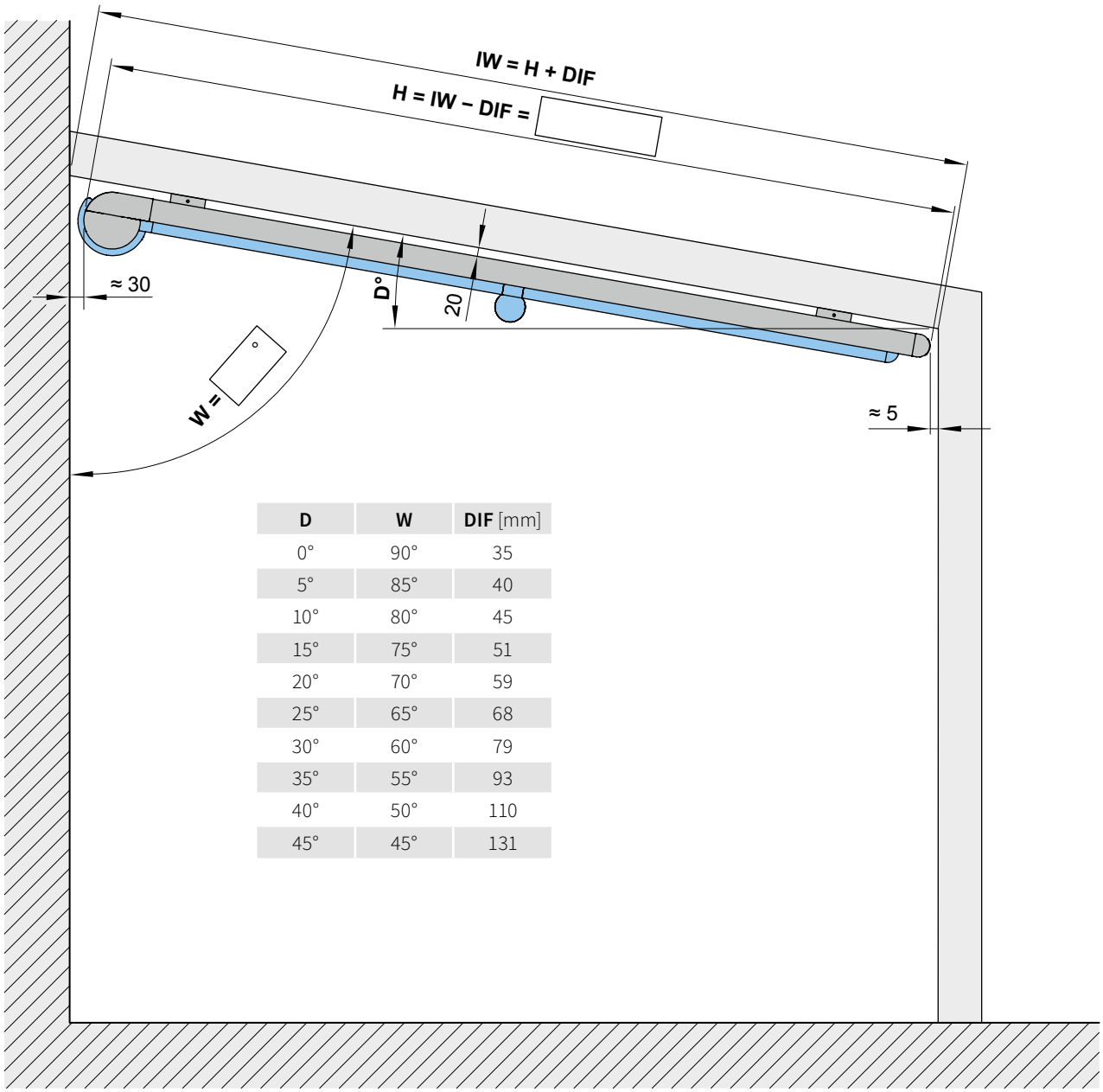
**Orders are to be submitted with all the dimensions shown in the diagram!**

**D** = roof pitch (in °)
**DIF** = difference interior conservatory measurement to extension H
**H** = **order dimension** = nominal extension = IW – DIF (see table)
**IW** = interior conservatory dimension
**W** = awning pitch (in °)

dimensions in mm

# Dimensions for taking measurements

Awning with lighting




| D | W | DIF [mm] |
|---|---|---|
| 0° | 90° | 35 |
| 5° | 85° | 40 |
| 10° | 80° | 45 |
| 15° | 75° | 51 |
| 20° | 70° | 59 |
| 25° | 65° | 68 |
| 30° | 60° | 79 |
| 35° | 55° | 93 |
| 40° | 50° | 110 |
| 45° | 45° | 131 |

**Orders are to be submitted with all the dimensions shown in the diagram!**

**D** = roof pitch (in °)
**DIF** = difference interior conservatory measurement to extension H
**H** = **order dimension** = nominal extension = IW – DIF (see table)
**IW** = interior conservatory dimension
**W** = awning pitch (in °)

dimensions in mm