Conservatory awning W10

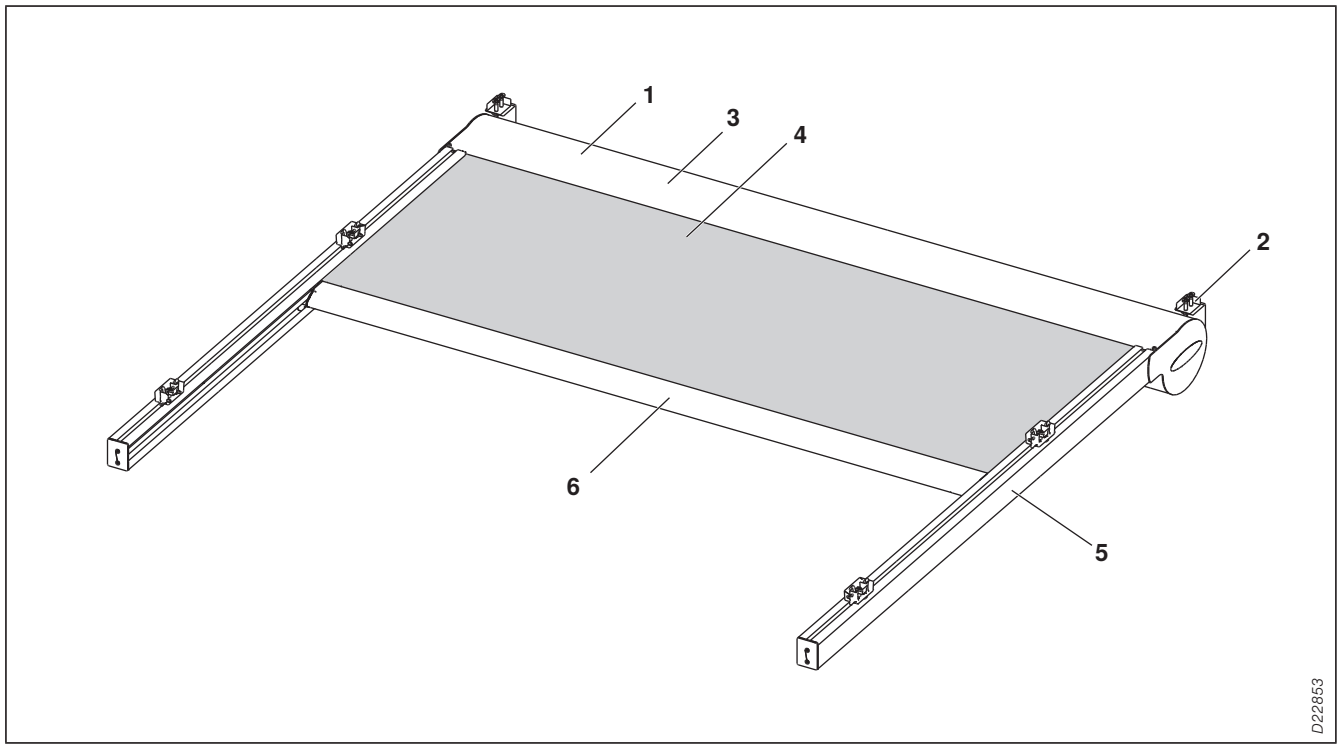


Fig. 347: Conservatory awning W10

1 **Cover panel**
2 **Ceiling supports**
3 **Shaft**
4 **Fabric**
5 **Lateral guidance with secudrive®**
6 **Front rail**

Application

Internal sun shading system for shading conservatories, patios roofs and pergolas with flat roof pitches.
For the first time in the field of sun shading with secudrive® guiding of the awning fabric along the entire ordering length by means of a spring steel strip directly in the guide rail. When extending the awning the spring steel strip pushes the fabric in the guide rails, leaving no light gap and achieving optimum fabric tension.

Operation

Motor

thermal protection and built-in capacitor comprised.
Torque overload protection: Motor switches off automatically in the upper and lower limit positions
Voltage: 230 V AC
Frequency: 50 Hz
Degree of protection: IP 44
Connecting cable: 500 mm
Plug-in connector: Hirschmann coupling wired to motor cable, comprised for customer connection, including enclosure

Radio motor or radio plug receiver (optional)

EWFS hand-held transmitter comprised, 1 channel

Cover panel (1)

two-piece, closed at the front
Material: aluminium, extruded
Dimensions (w x h): 196 x 159 mm
Surface: powder-coated, anodising optional
Fixing: using a ceiling support
Note: A deviation of up to 3 mm is possible for the cover panel closure.

Ceiling support (2)

Material: stainless steel
Dimensions (w x h): 40x75.5 or 129 mm
Surface: plain

Shaft (3)

Fabric shaft

Material: aluminium
Material thickness: 1.6 mm
Dimensions (Ø): 86.2 mm
Profile: groove tube
Surface: plain

Motor shaft

Material: aluminium
Material thickness: 1.6 mm
Dimensions (Ø): 70 mm
Profile: groove tube
Surface: plain

Conservatory awning W10

Fabric (4)

Fabric qualities: Acrylic Standard/Lumera
Acrylic Perfora
Soltis 92
More information about fabrics on Page 400

Designs: according to current WAREMA awning collection

Special fabrics not included in our current awning collection are only available upon request and at a surcharge.

Lateral guide (5)

with secudrive® in rail

with mounting groove

Material: aluminium, extruded
Dimensions (w x h): 45 x 60 mm
Surface: powder-coated, anodising optional
Fixing: bracket, from page 249

A spring steel strip guides the fabric directly in the guide rail. It can also be fixed to WAREMA patio roofs as well as wooden and aluminium pergolas.

Lead profile (6)

Material: aluminium, extruded
Dimensions (w x h): 65 x 45 mm
Surface: powder-coated, anodising optional

Fixing and connecting parts

within the awnings
Material: A2 steel or aluminium

Colours

Powder coating of aluminium parts with chrome-free pre-treatment according to valid RAL CLASSIC colour chart (except camouflage and luminous colours) or in DB colours 701, 702 and 703 as well as eight textured colours (W4914 - W4921), four anodized-look colours (WC31 - WC34) and further colours according to WAREMA standard colour fan (in WAREMA colour specification).
Other colour specifications, special colours or anodising are available upon request and at a surcharge.

Checklist

- Provide drawings of the conservatory or the patio roof or provide a sketch and also a photo (if possible)
- Fabric colour and quality
- Frame colour (powder-coated or anodised)
- Type of guide rail bracket
- Determine position of drive (operation side of cover panel in direction of movement)
- Arrange for supply of on-site cable
- Arrange for housing of plug connection

Safety instructions

- In gyms, multi-purpose halls or similar, the awning must be protected against shocks (ball games), impacts etc. by appropriate features like fences, nets etc.
- Do not use in indoor pools due to the chlorine atmosphere.
- It is imperative that the installation instructions and the relevant appendices are adhered to.
- Accident prevention regulations from trade associations must be observed.
- Specifications of the manufacturers of dowels and fixing materials must be observed.
- The fixing points have to be checked once a year!

Information on operation and electrical connection:

The following connection conditions must be taken into consideration when controlling electronic motors:

1. It must be ensured that the drives are operated via locked switching units. The drives switch to programming mode if voltage is simultaneously applied to the up and down running direction. In this case the built-in electronics lose their saved limit positions and await new programming.
2. Switching devices with the so-called 3-wire conductor technique (e.g. Rademacher timer Clip) cannot be used because these devices draw their supply voltage from the drive and the electronics in the motors do not build up enough voltage.

If both conditions have been met, the electronic motors can be operated with any roller shutter controller or bus system (via actuators).

Conservatory awning W10

Diagram for determining the run time of a conservatory awning W10

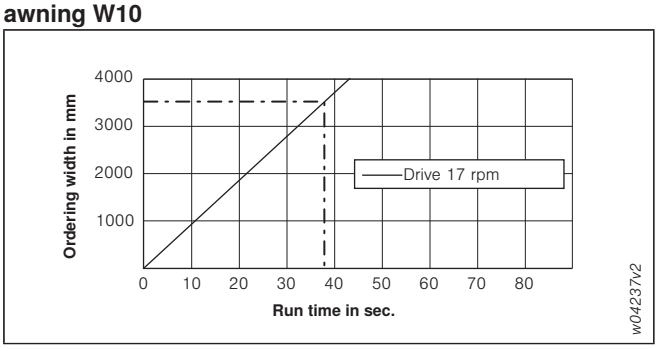


Fig. 348: Diagram for determining the run time for type W10

How to read the diagram:

Awning with ordering length of 3500 mm and drive speed of 17 rpm has a run time of approx. 38 sec.

Guide rail

Guide rail 45x60mm (w x h)

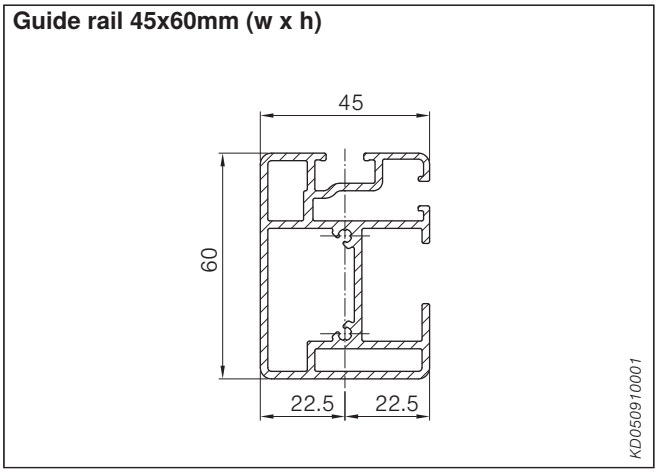
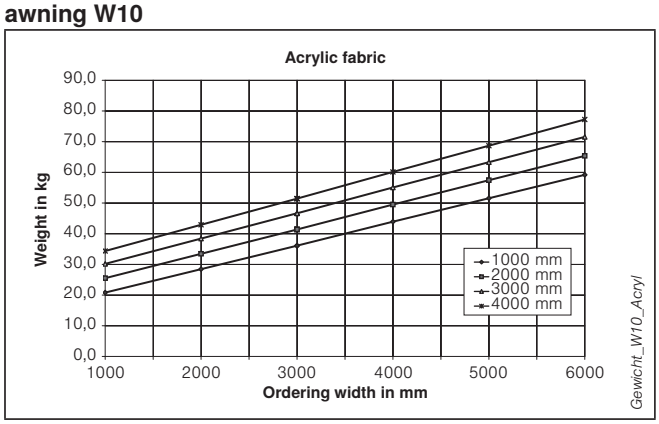


Fig. 349: Guide rail

Diagram for determining the weight of a conservatory awning W10



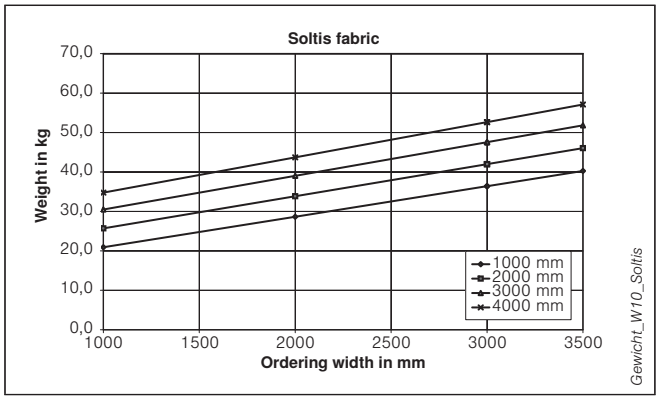


Fig. 350: Diagram for determining the weight of type W10

How to read the diagram:

Awning with 4000 mm ordering length, 3000 mm order width and Soltis 92 fabric has a weight of approx. 53 kg.

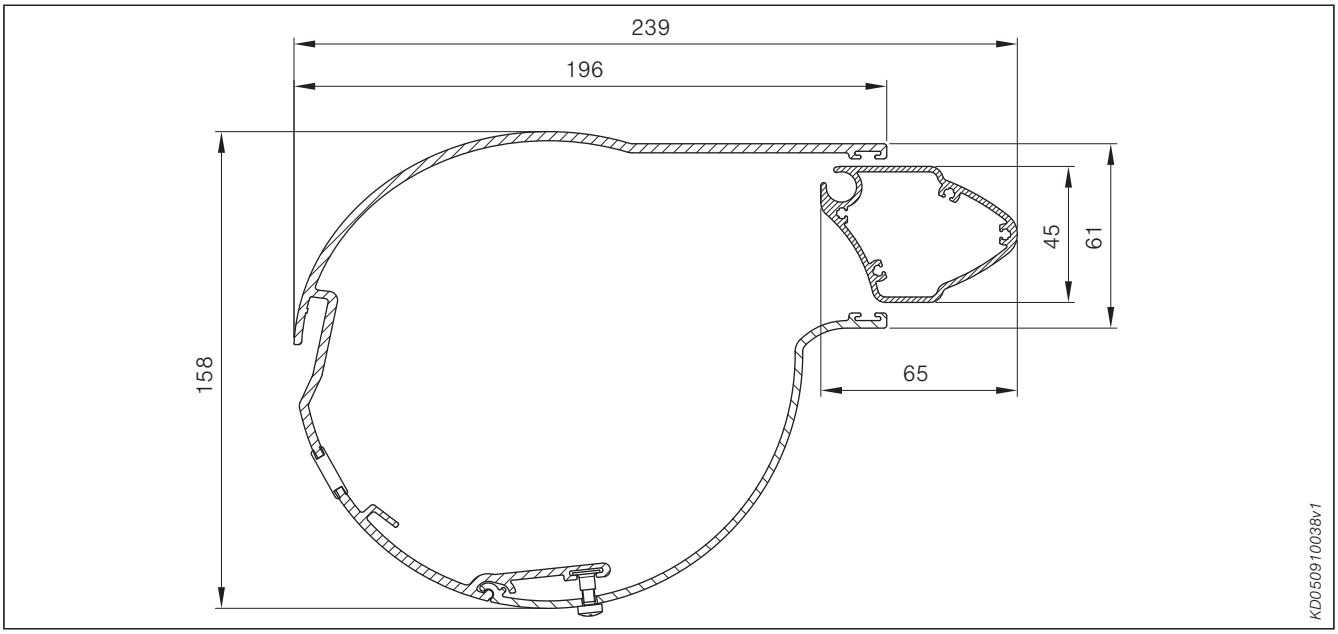


Fig. 351: Cover panel

Conservatory awning W10

Application example

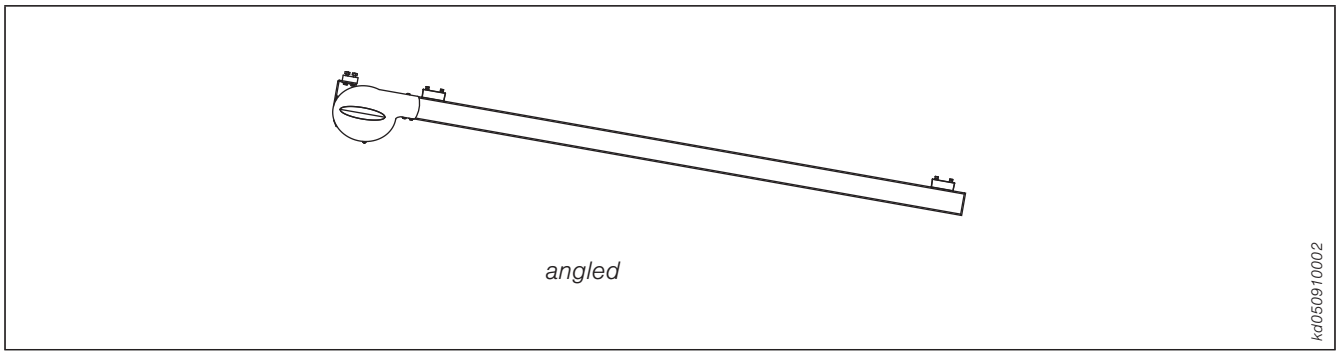


Fig. 352: Application example

You can also use our free planning programme at www.sonnenschutzplaner.de for planning the sun shading control systems – configure the product and create a technical drawing for integrating into your plans.

Construction limit values in mm W10

Internal sun shading system	Type of fabric	W10	W10 direction of movement "from bottom to top"
Max. width	Acrylic – all variants –	6000	6000
	Soltis 92	3500	3500
Min. width	Acrylic – all variants –	600	600
	Soltis 92	600	600
Max. length	Acrylic – all variants –	4000	4000
	Soltis 92	4000	4000
Min. length	Acrylic – all variants –	950	950
	Soltis 92	950	950
Max. surface area (m^2)	Acrylic – all variants –	24	24
	Soltis 92	14	14
Roof pitch		0°–30°	0°–20°

Note:
Conservatory awnings type W10 are only available as individual units, i.e. no coupled units and no motor/end bearing situations are possible! Each awning requires 2 single guide rails.

Definitions

The drive end or operation side is always seen from the cover panel in extension direction.
Order width= from one guide rail fixing axis to the next fixing axis = axial dimension

Guide rail bracket

Length (mm)	Guide rail brackets per rail
up to 1799	2
1800 to 2899	3
2900 to 4000	4

Ceiling supports

Width (mm)	Ceiling supports
up to 3999	2
4000 to 6000	3

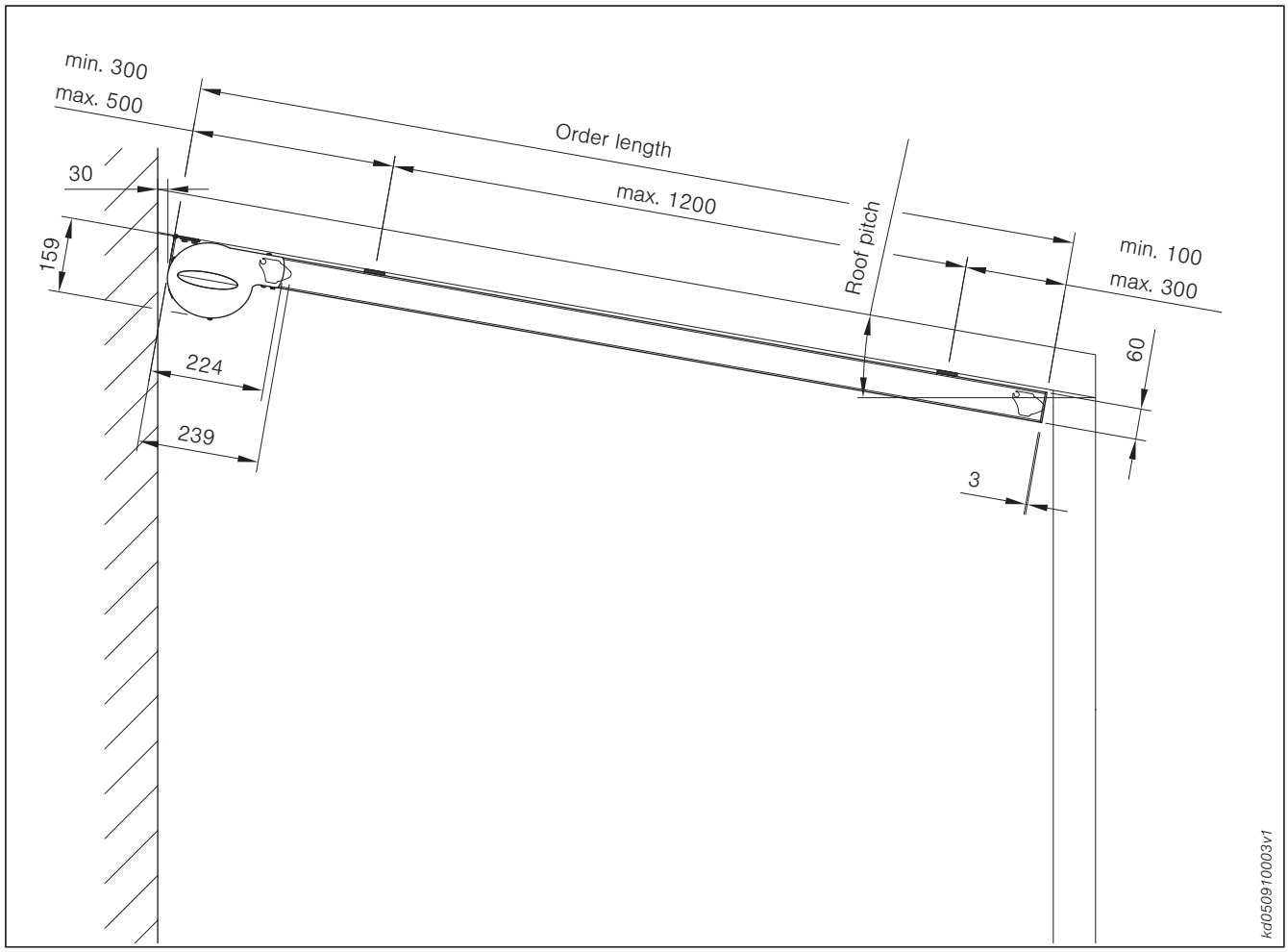


Fig. 353: Conservatory awning W10

Required space for mounting cover panels on brackets

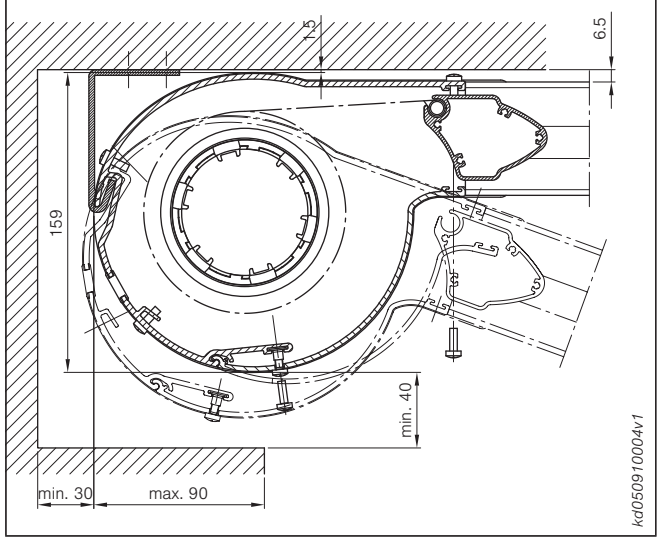
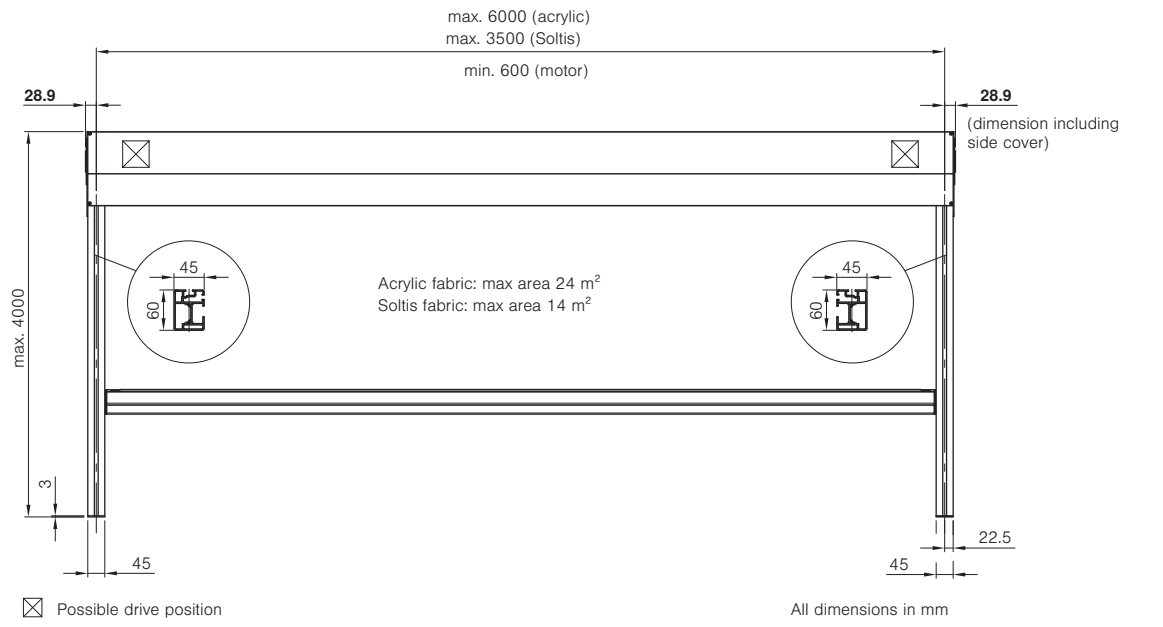


Fig. 354: Required space for mounting cover panels on brackets

Conservatory awning W10

Attention: Order width = middle of guide rail – middle of guide rail. The entire awning (incl. side covers) is wider by 57 mm. Please note when ordering!

Individual unit



Units connected in series (mechanical coupling not possible)

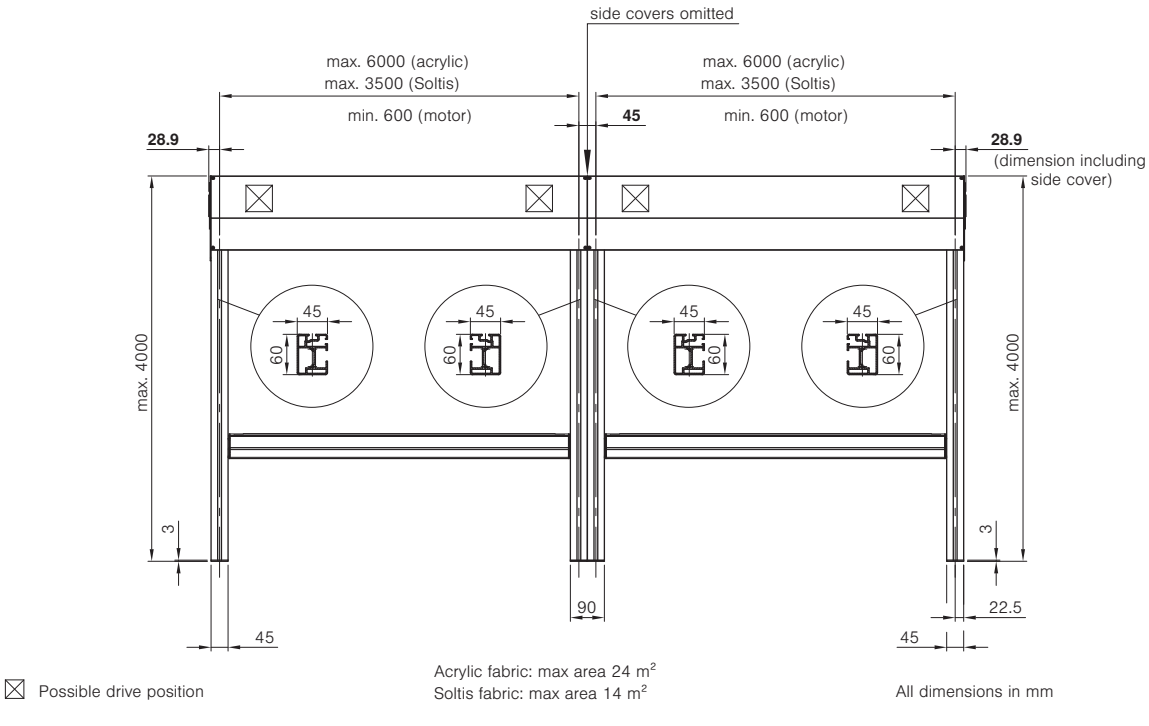


Fig. 355: Measuring instructions for drives

With units connected in series, it is possible to attach 2 guide rails with one bracket.

Conservatory awning W10

Unit variations – symbolic illustration

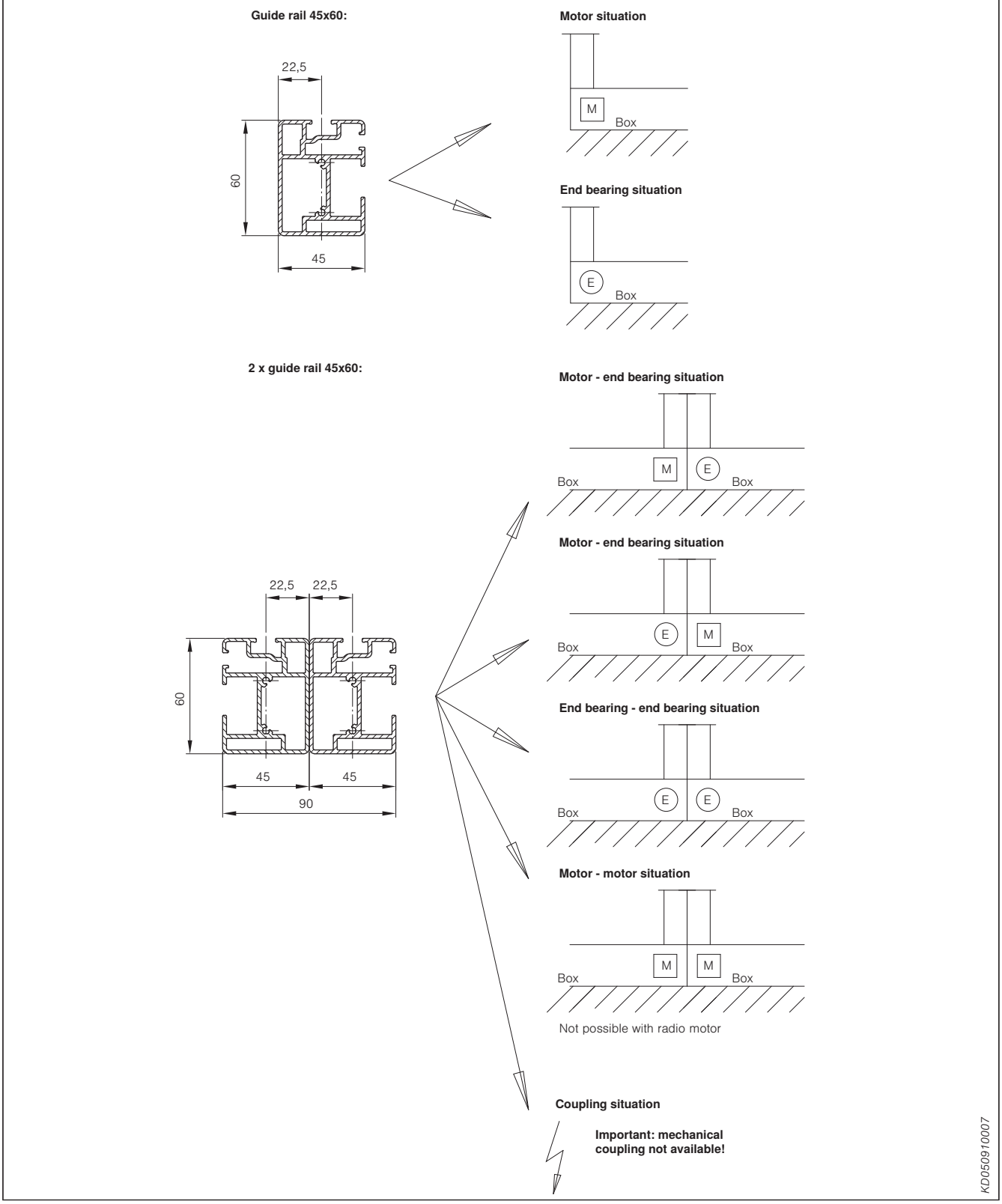


Fig. 356: Unit variations W10

With units connected in series, it is possible to attach 2 guide rails with one bracket.

Conservatory awning W10

Overview of mounting situations – overview of brackets and ceiling supports see page 249f.

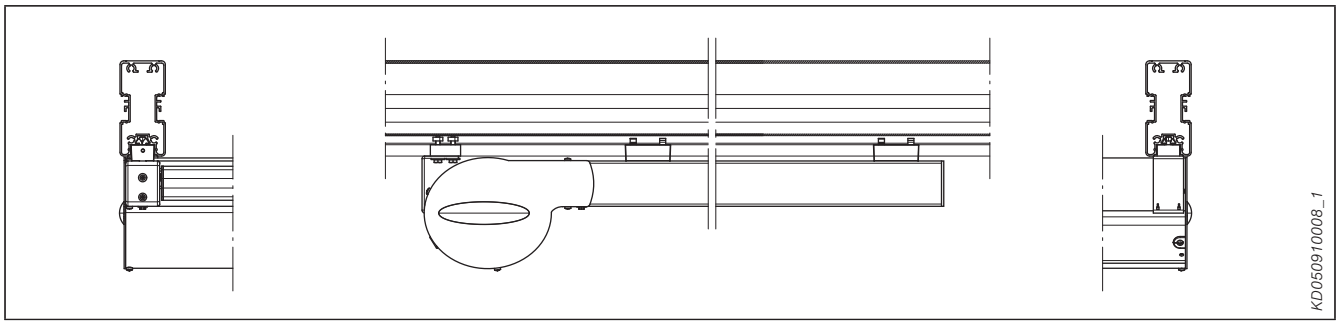


Fig. 357: Conservatory awning W10 on patio roof T1 – distance 6.5 mm – bracket no. 47 with ceiling support

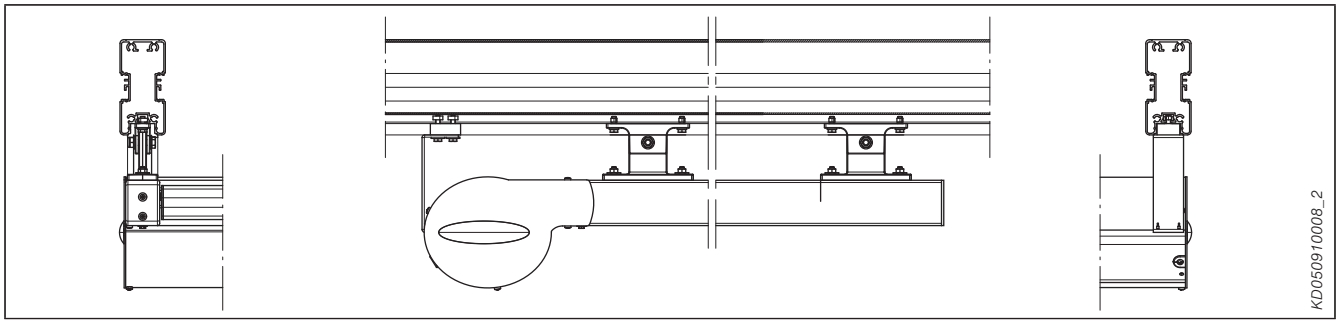


Fig. 358: Conservatory awning W10 on patio roof T1 – distance 60 mm – bracket no. 101 with ceiling support

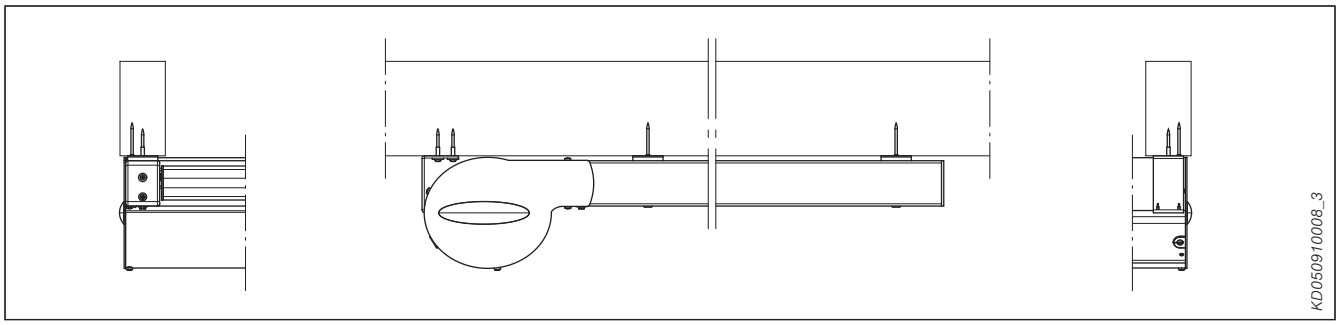


Fig. 359: Conservatory awning W10 on third-party product – distance 6.5 mm – bracket no. 48 with ceiling support

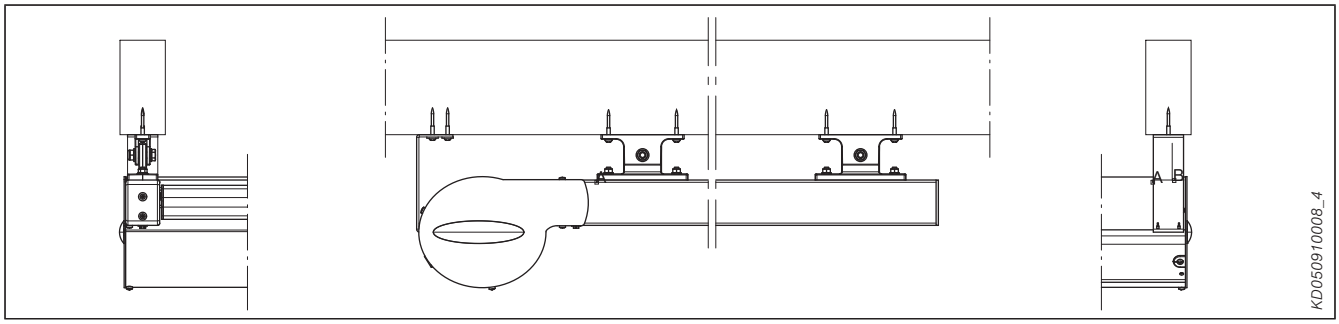


Fig. 360: Conservatory awning W10 on third-party product – distance 60 mm – bracket no. 101 with ceiling support

Conservatory awning W10

Detail: Mounting conservatory awning W10 on patio roof T1 – distance 6.5 mm

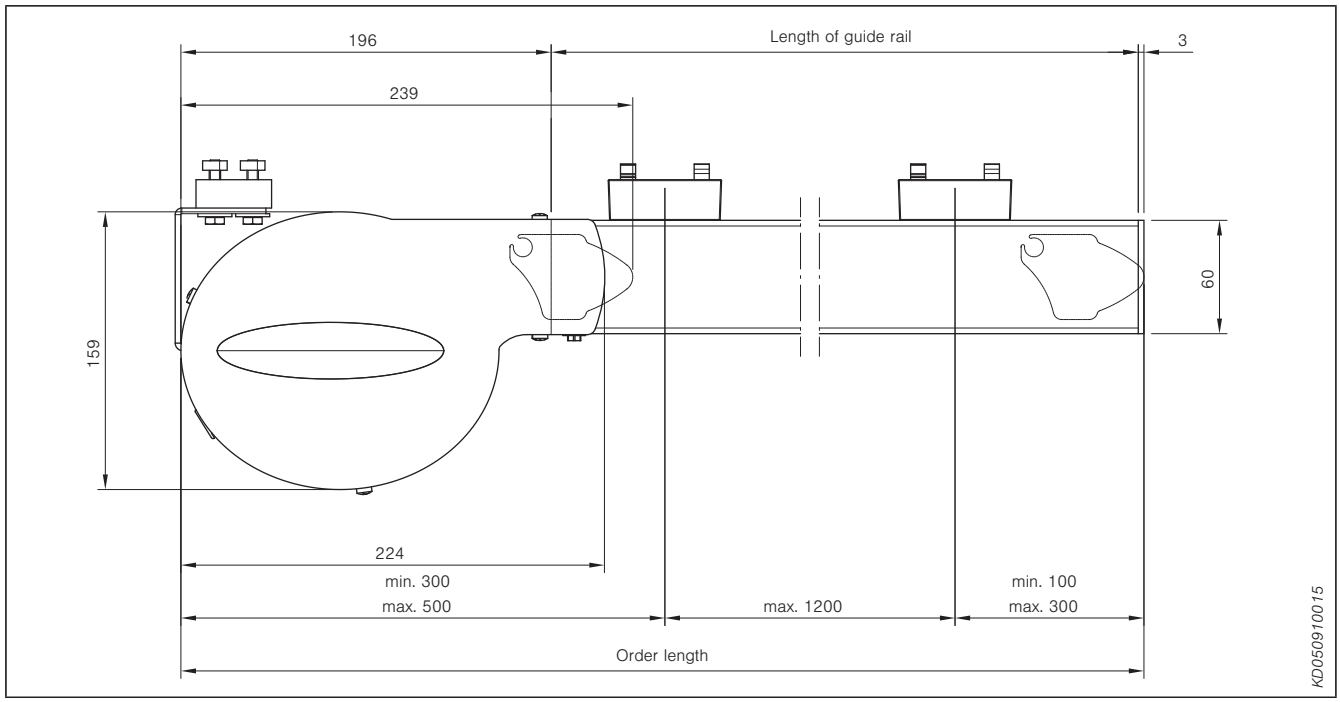


Fig. 361: Detail: Mounting W10 on patio roof T1 – distance 6.5 mm

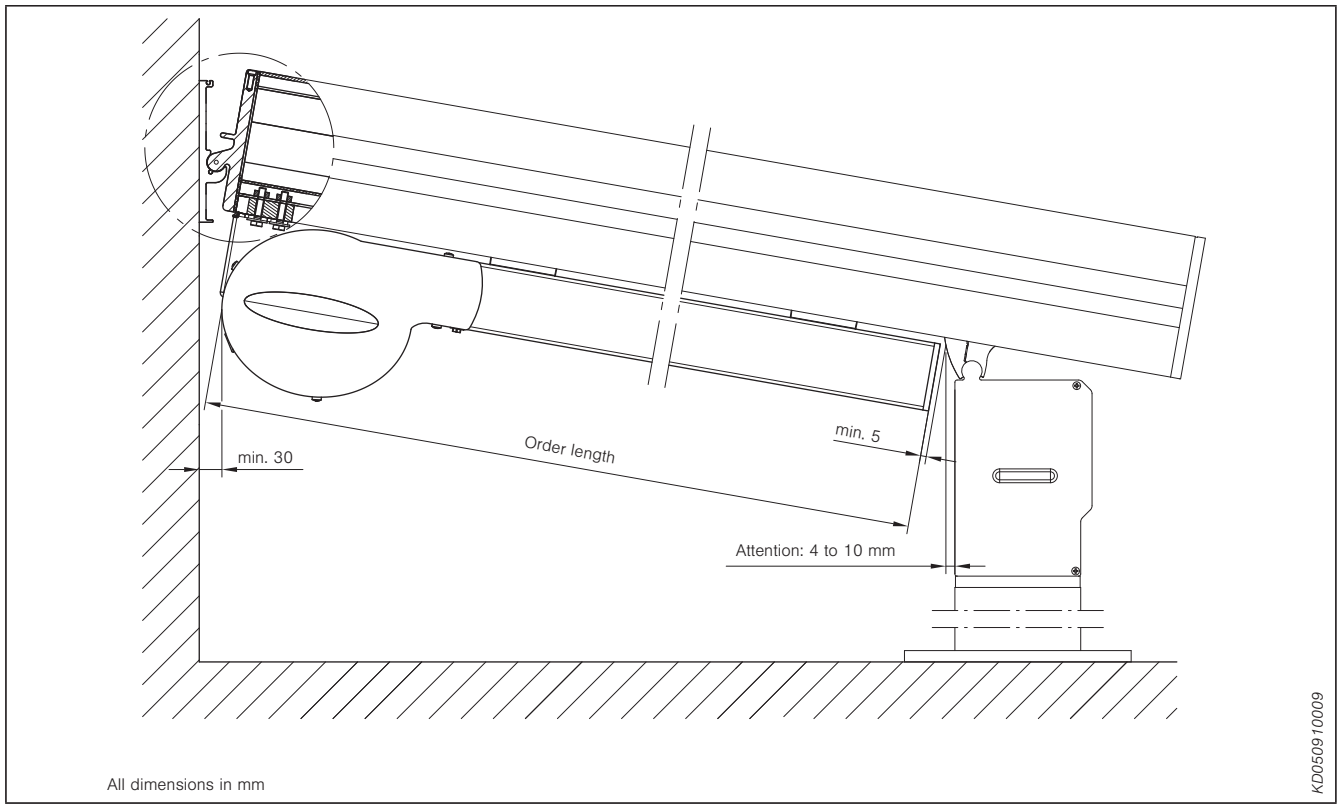


Fig. 362: Detail: Mounting W10 on patio roof T1 – rafters protruding

Conservatory awning W10

Detail: Mounting conservatory awning W10 on patio roof T1 – distance 6.5 mm

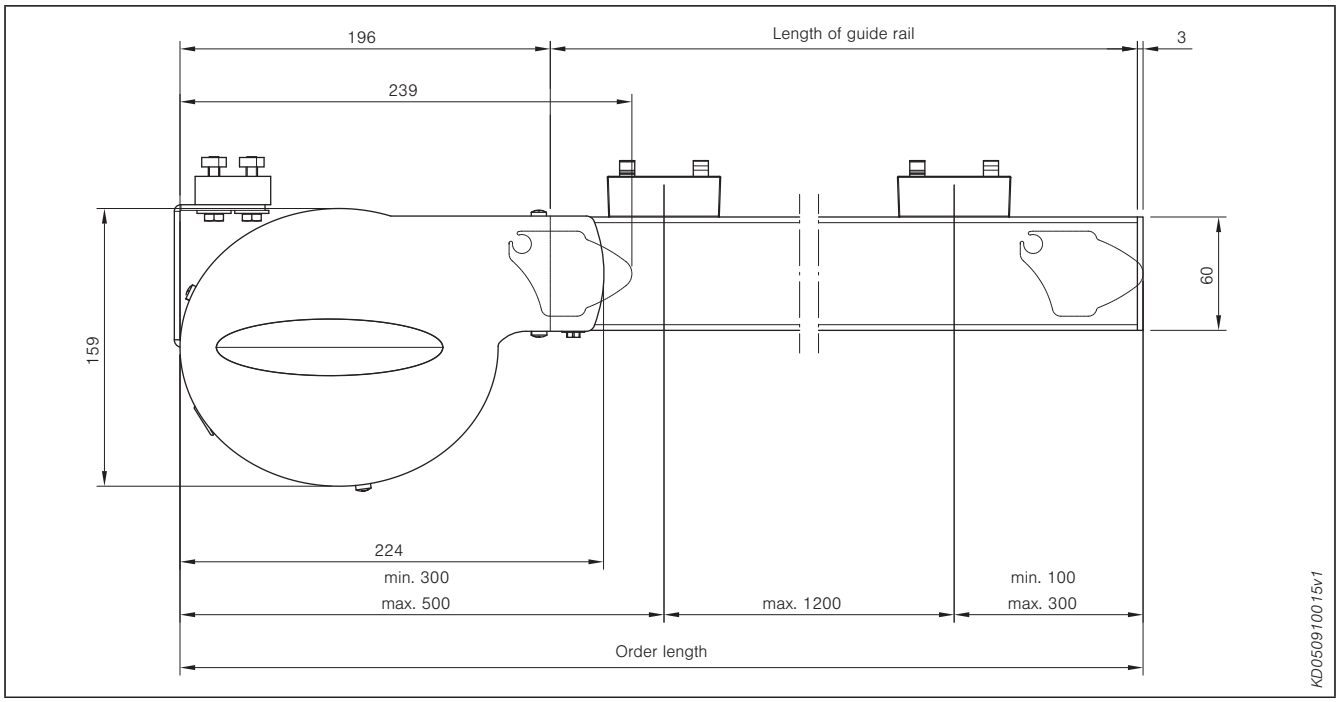


Fig. 363: Detail: Mounting W10 on patio roof T1 – distance 6.5 mm

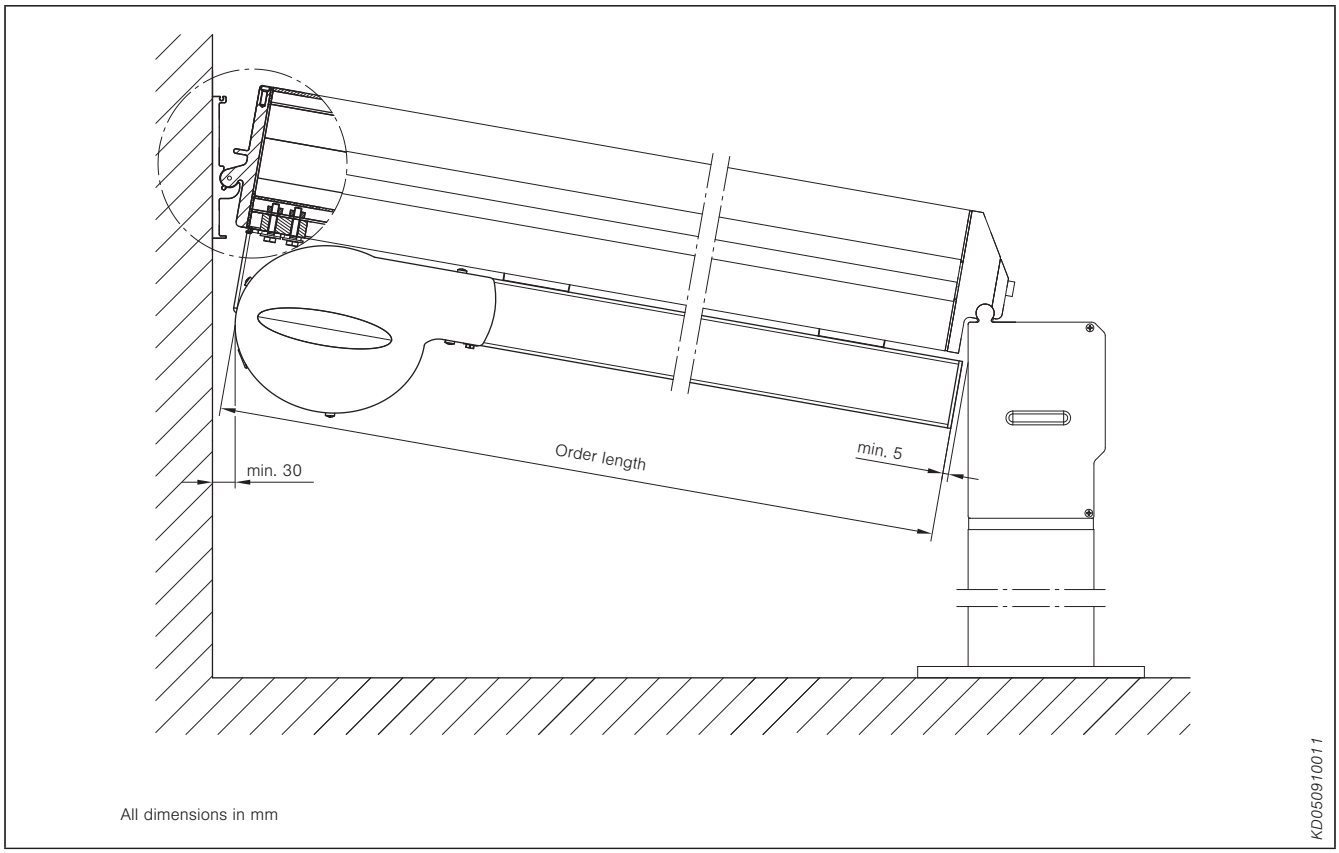


Fig. 364: Detail: Mounting W10 on patio roof T1 – rafters flush

Conservatory awning W10

Detail: Mounting conservatory awning W10 on patio roof T1 – distance 60 mm

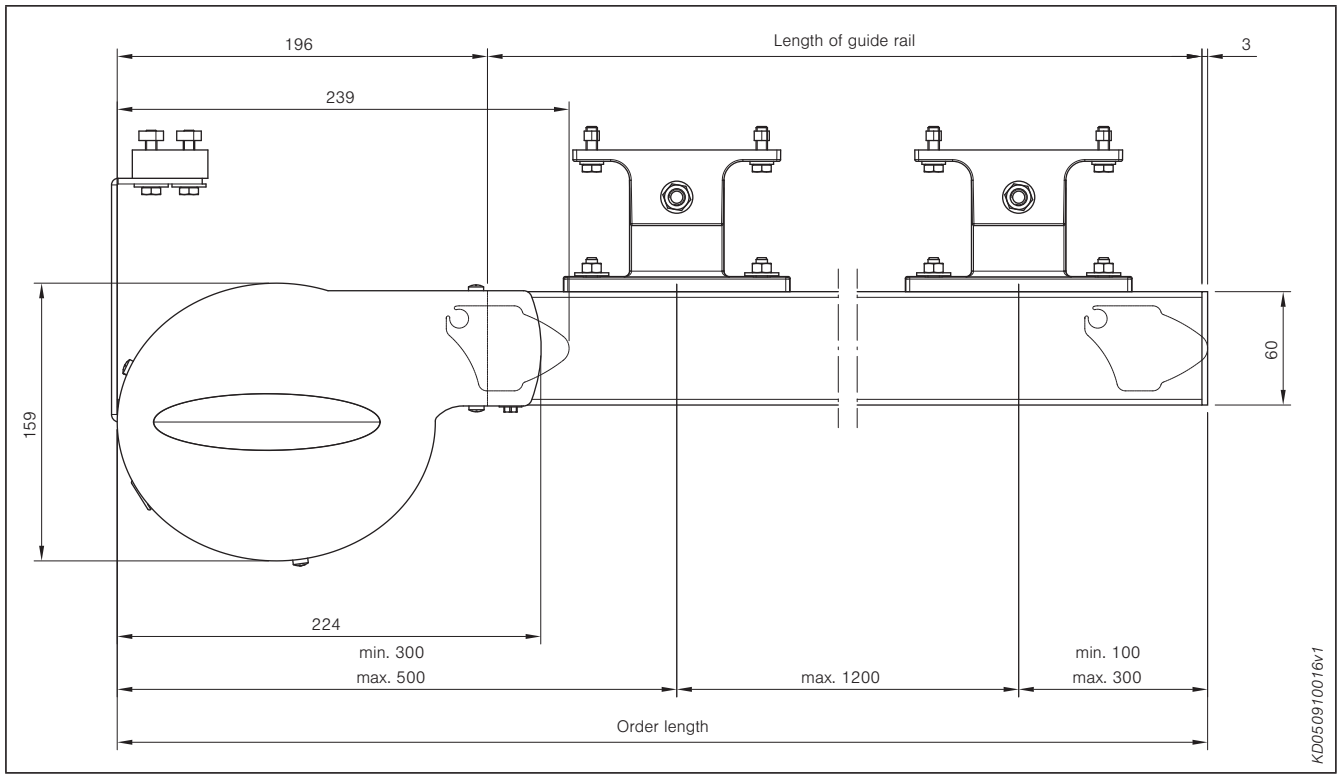


Fig. 365: Detail: Mounting W10 on patio roof T1 – distance 60 mm

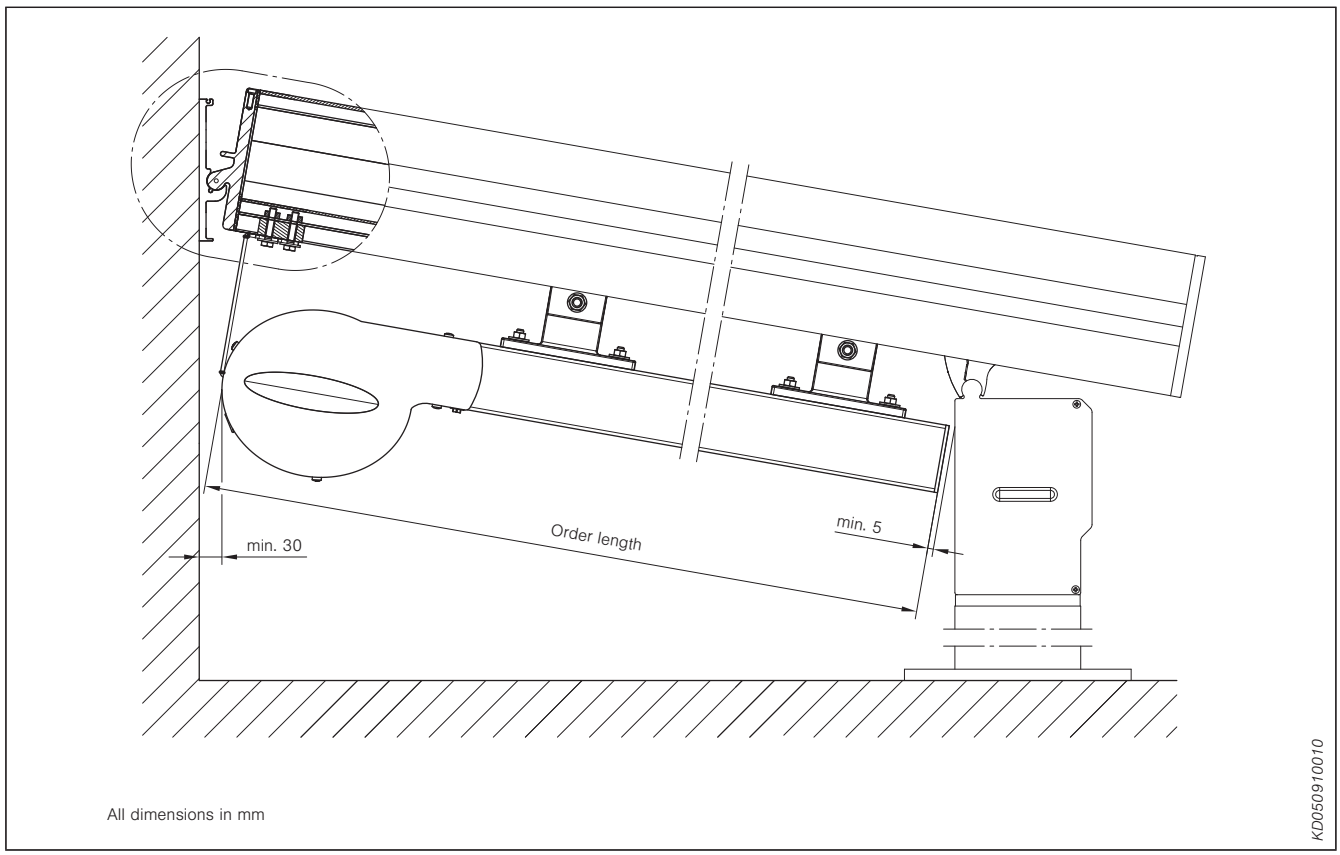


Fig. 366: Detail: Mounting W10 on patio roof T1 – rafters protruding

Conservatory awning W10

Detail: Mounting conservatory awning W10 on patio roof T1 – distance 60 mm

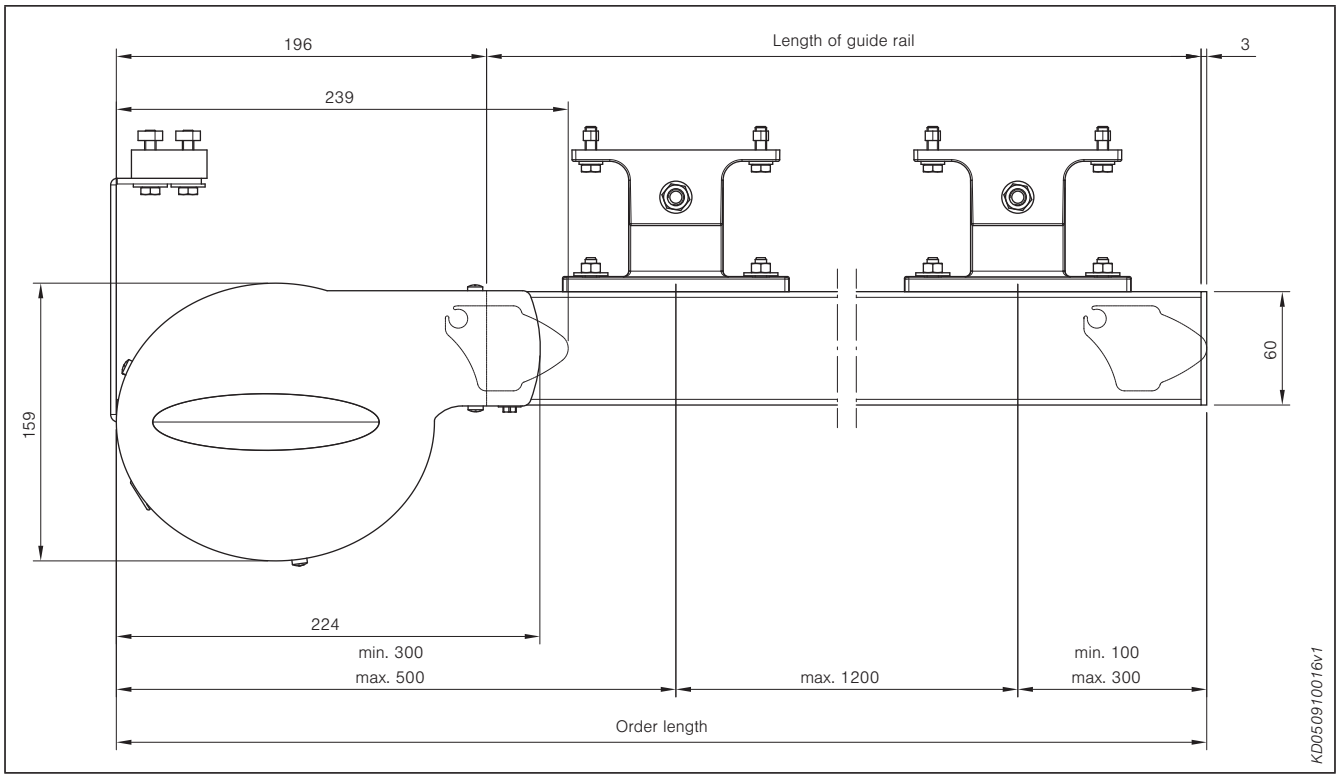


Fig. 367: Detail: Mounting W10 on patio roof T1 – distance 60 mm

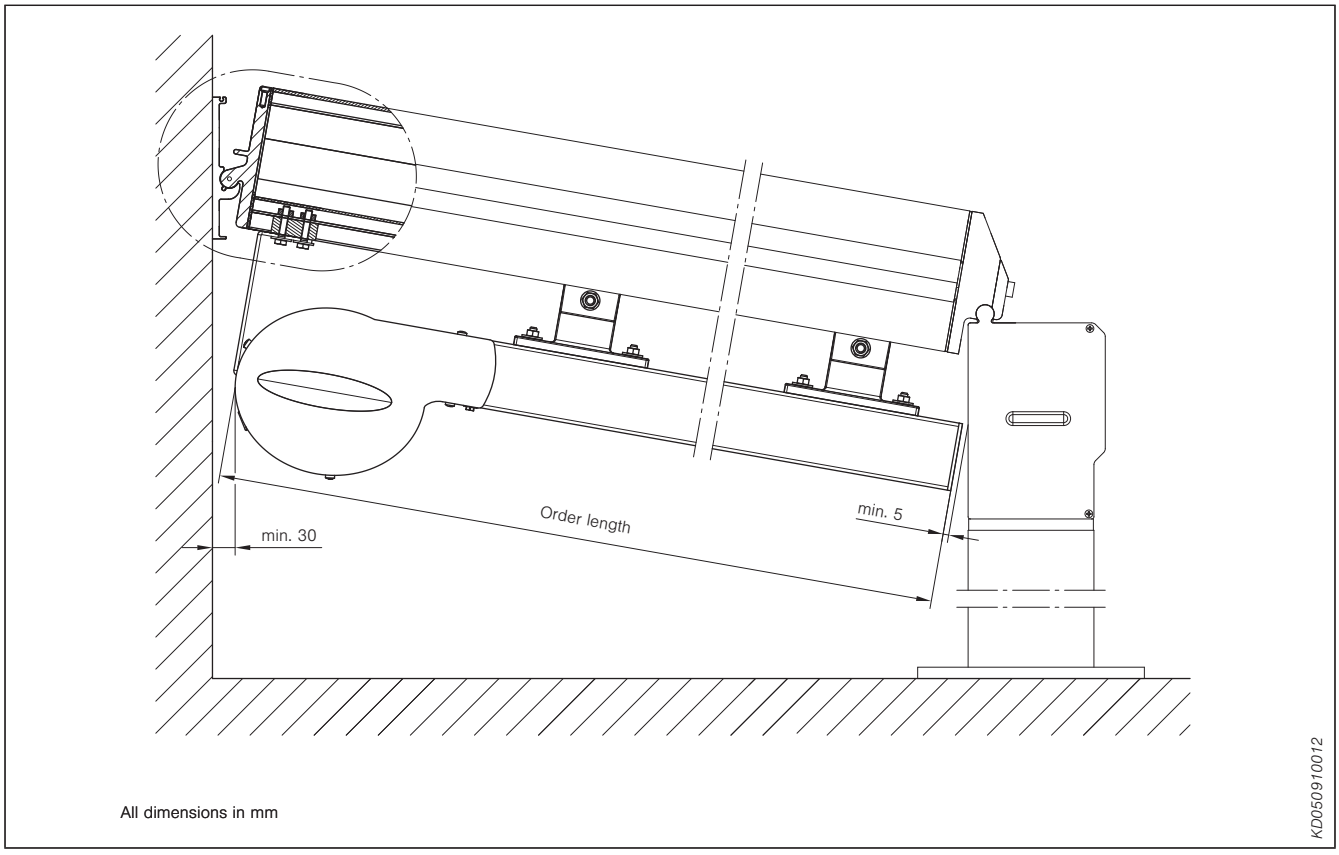


Fig. 368: Detail: Mounting W10 on patio roof T1 – rafters flush

Conservatory awning W10

Detail: Mounting conservatory awning W10 on third-party product – distance 6.5 mm

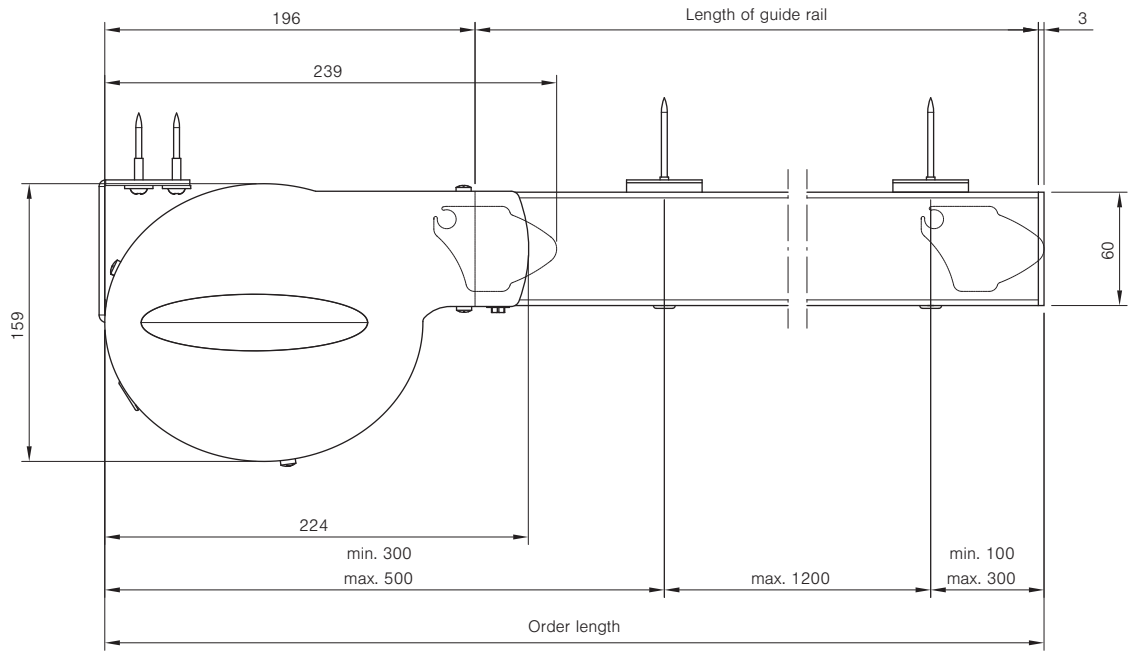


Fig. 369: Detail: Mounting W10 on third-party product – distance 6.5 mm

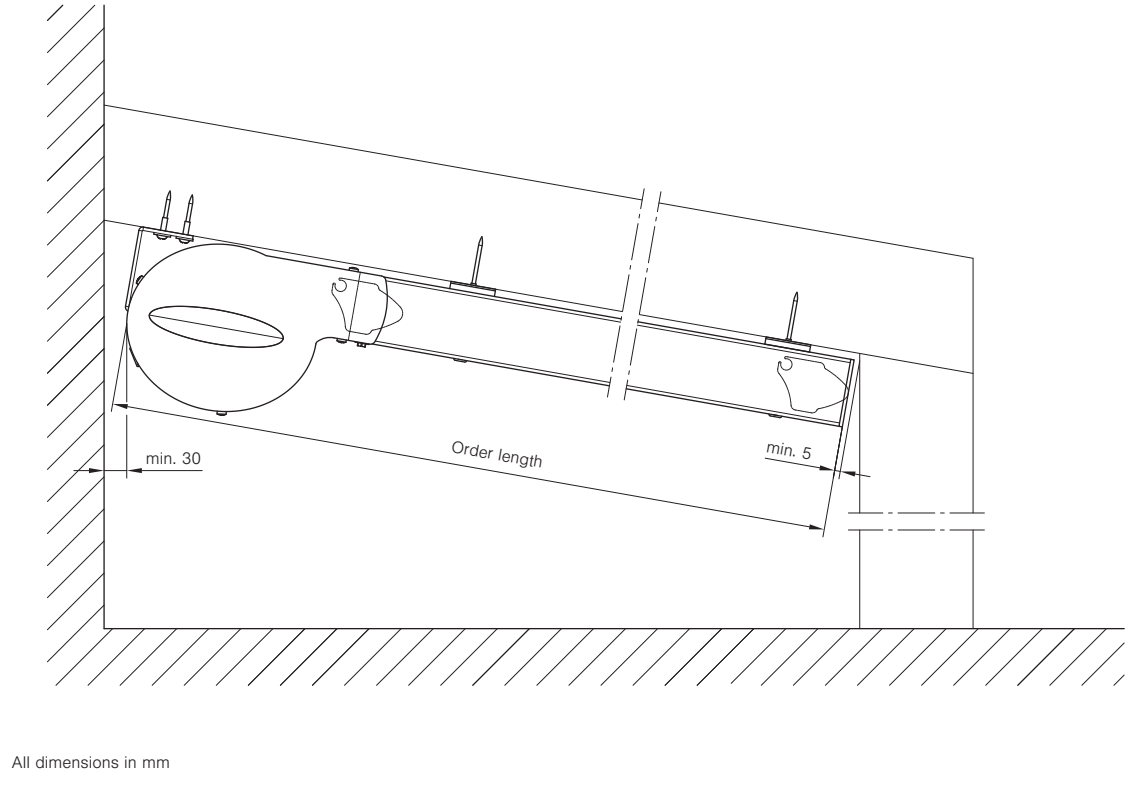


Fig. 370: Detail: Mounting W10 on third-party product

Conservatory awning W10

Detail: Mounting conservatory awning W10 on third-party product – distance 60 mm

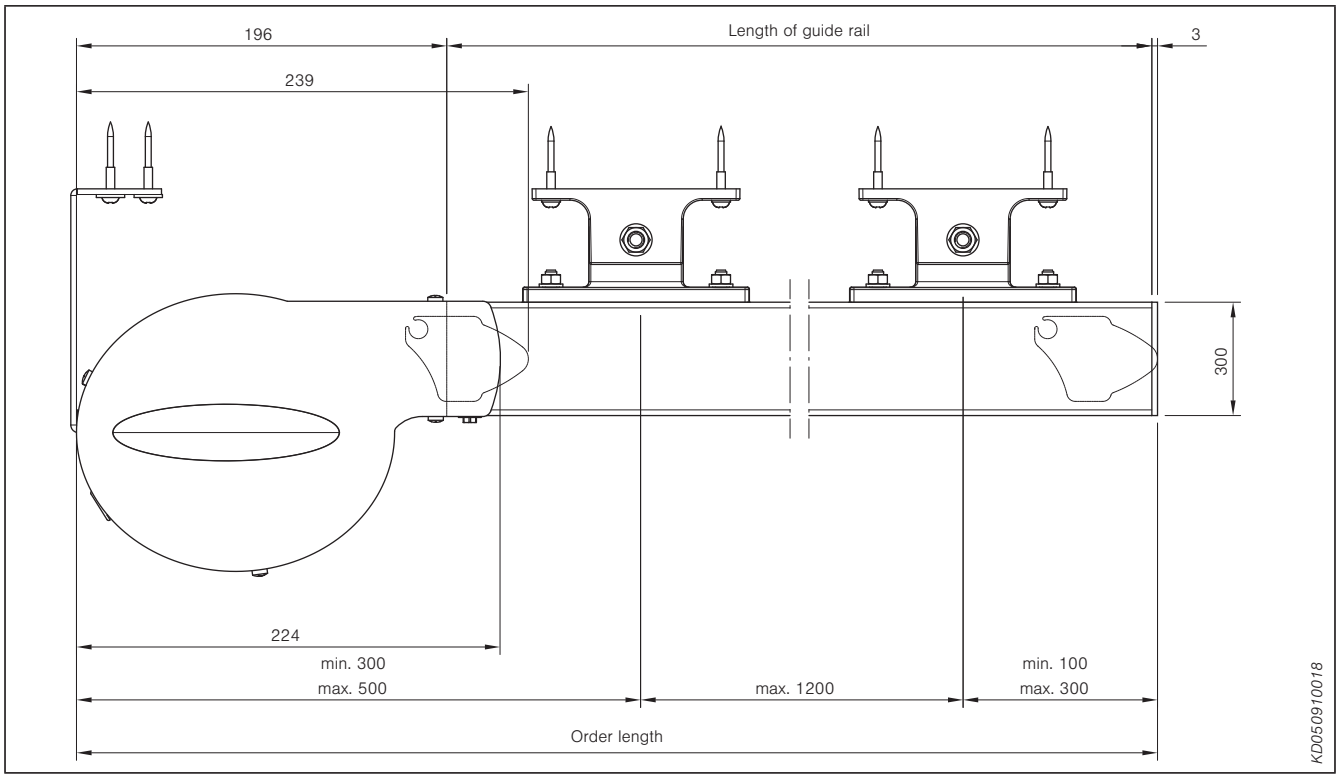


Fig. 371: Detail: Mounting W10 on third-party product – distance 60 mm

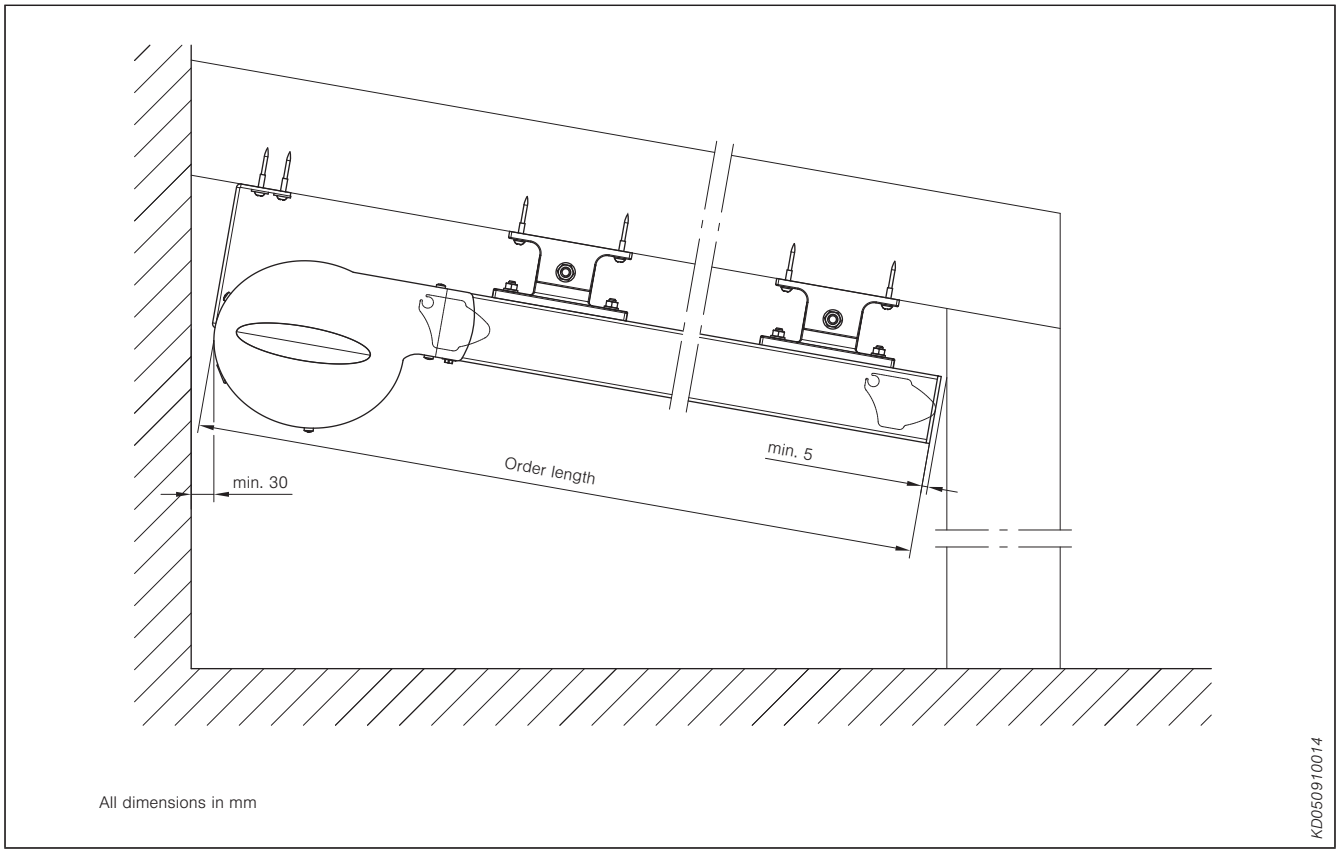


Fig. 372: Detail: Mounting W10 on third-party product

Conservatory awning W10
Guide rail fixation

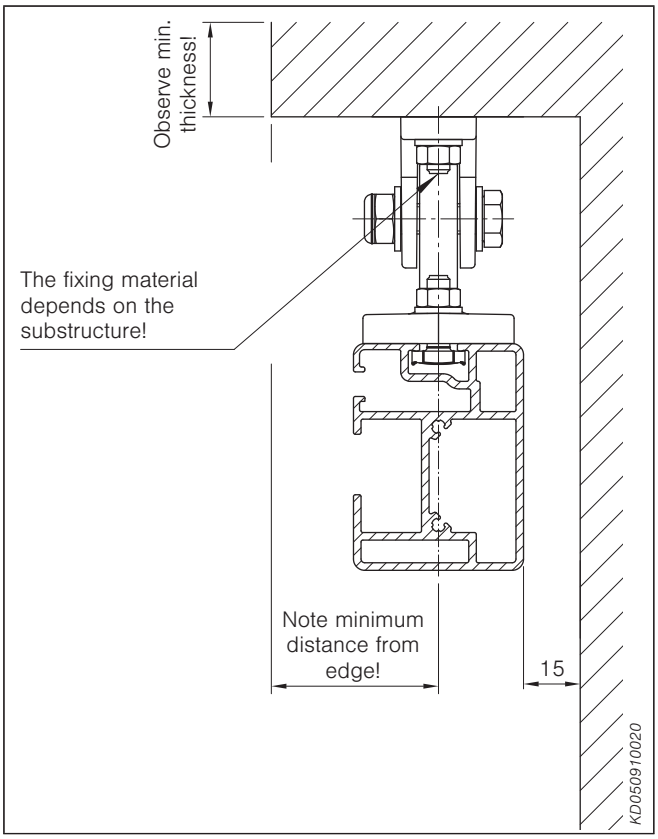


Fig. 373: Ceiling mounting

Note:
It is imperative to observe the specifications of the manufacturers of dowels and fixing materials!

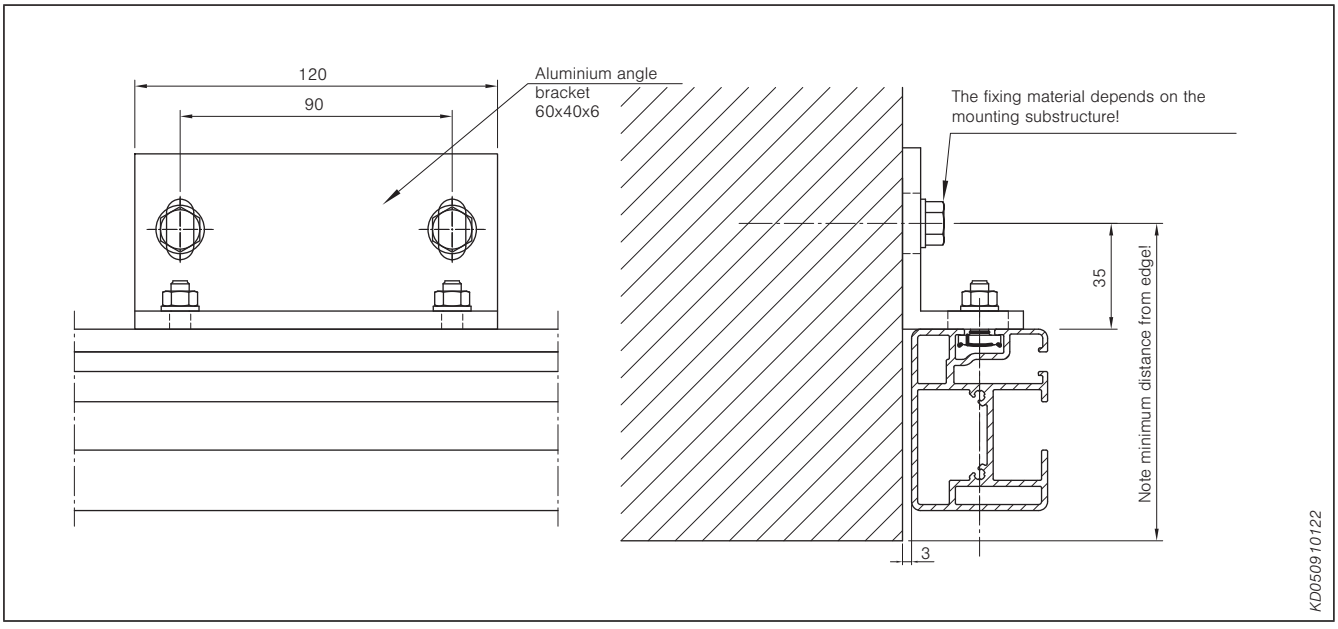


Fig. 374: Wall installation

Conservatory awning W10

Only for mounting on WAREMA patio roof T1

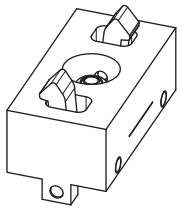
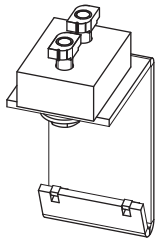
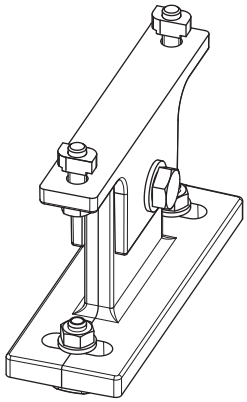
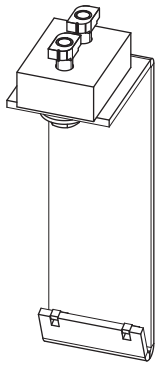
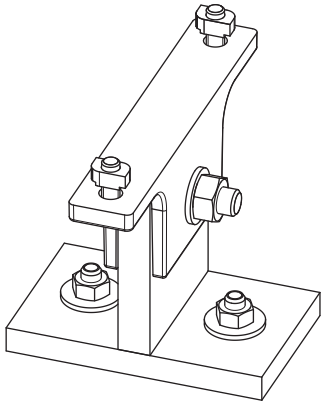
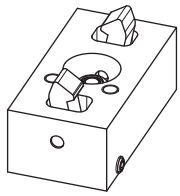
Bracket no. 47 (W10)	**Ceiling bracket for bracket 47**
	
Bracket no. 101 (W10)	**Ceiling bracket for bracket 101**
	
For mounting single guide rails in series-mounted units	
Bracket no. 49 (W10)	**Bracket no. 51 (W10)**
	

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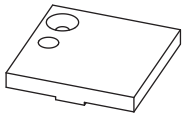
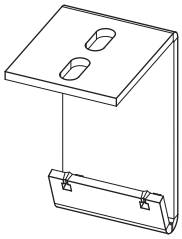
Fig. 375: Overview of guide rail brackets and ceiling brackets (mounting on patio roof T1)

Mounting on third-party product

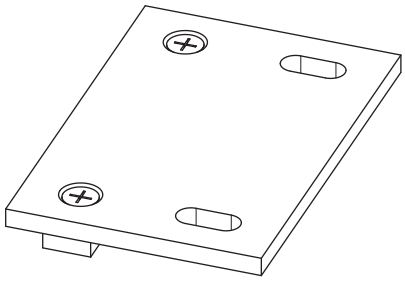
Bracket no. 48 (W10)



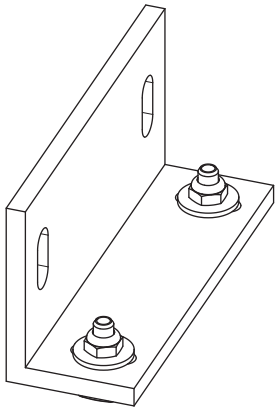
Ceiling bracket for bracket 48



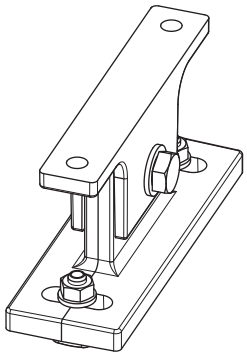
Bracket no. 53 (W10)



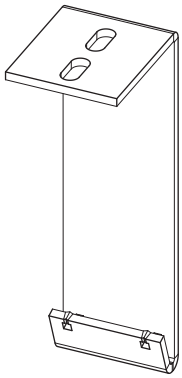
Bracket no. 52



Bracket no. 101 (W10)



Ceiling bracket for bracket 101



For mounting single guide rails in series-mounted units
Bracket no. 49 (W10)

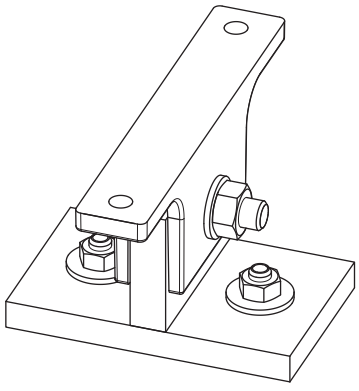


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Fig. 376: Overview of guide rail brackets and ceiling brackets (mounting on third-party product)

Conservatory awning W10

Mounting on WAREMA patio roof T1

Bracket no. 47 (W10)

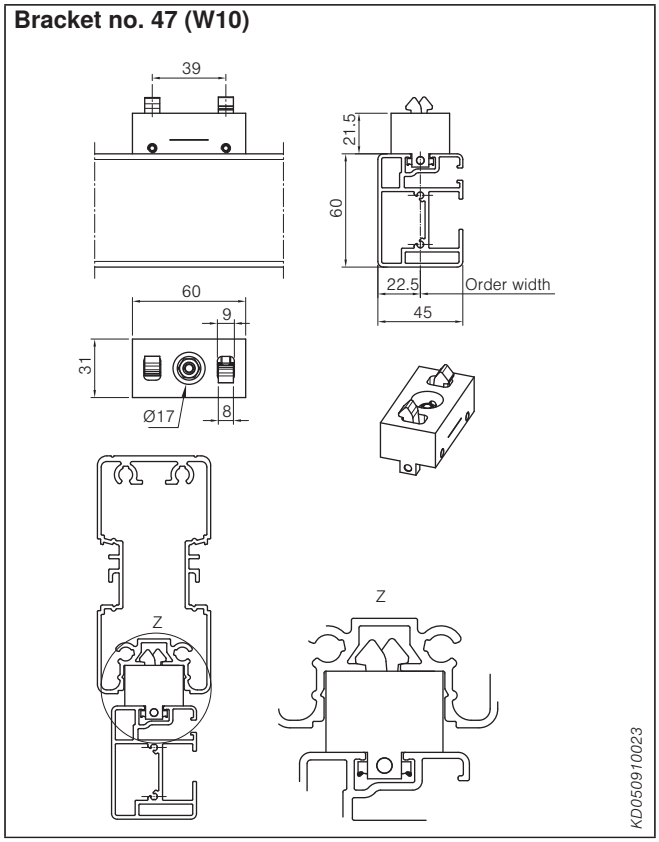

Fig. 377: Guide rail brackets for mounting on T1, distance 6.5 mm

Ceiling bracket for bracket no. 47

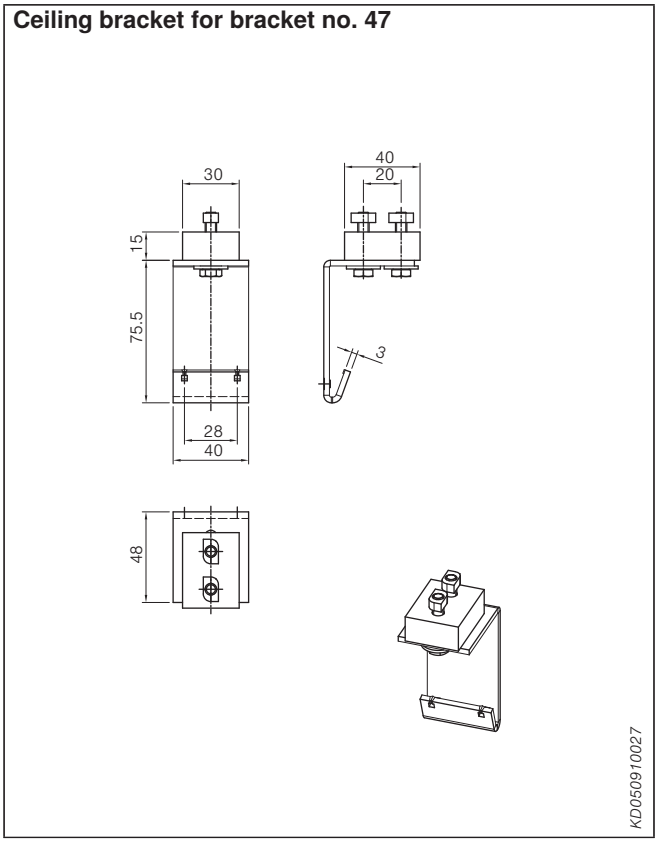

Fig. 378: Ceiling supports for mounting on T1, distance 6.5 mm

Bracket no. 101 (W10)

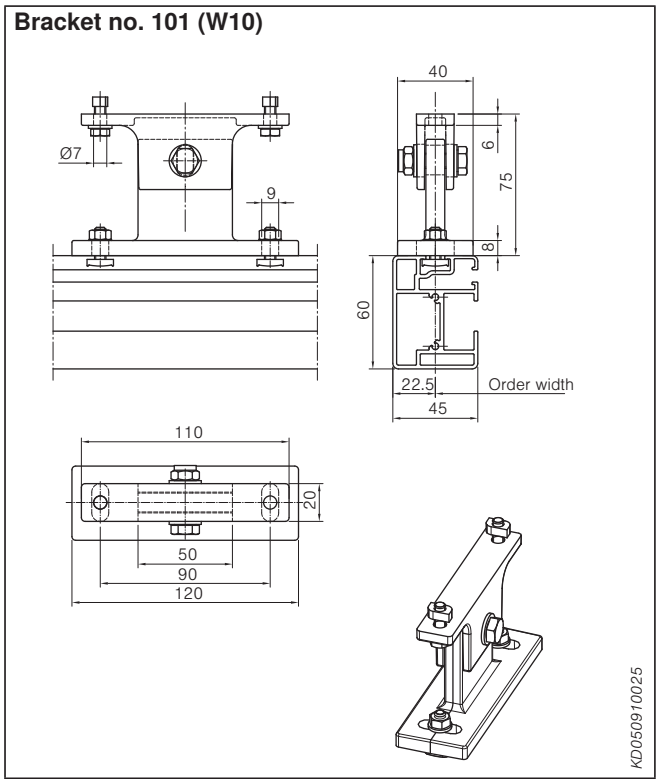

Fig. 379: Guide rail brackets for mounting on T1, distance 60 mm

Ceiling bracket for bracket no. 101

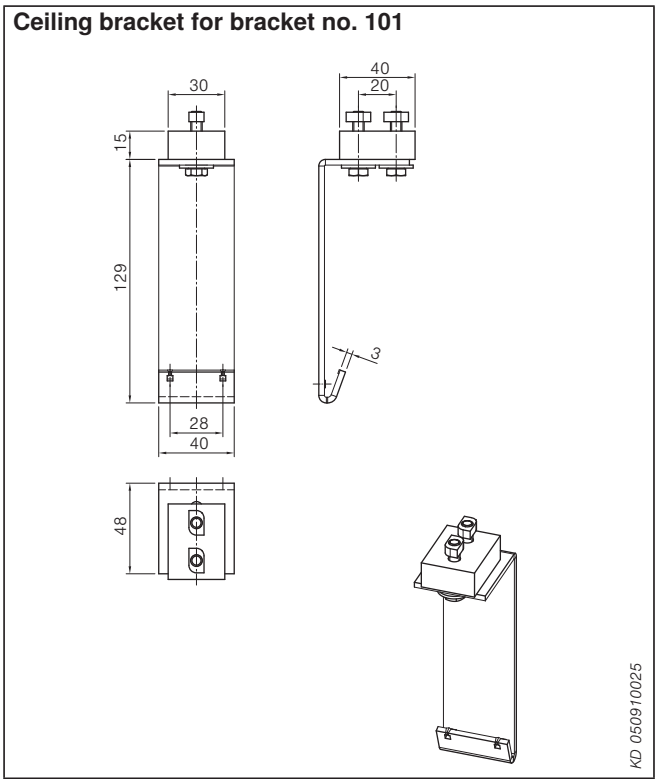

Fig. 380: Ceiling supports for mounting on T1, distance 60 mm

Mounting on WAREMA patio roof T1 – Coupled units

Bracket no. 51 (W10)

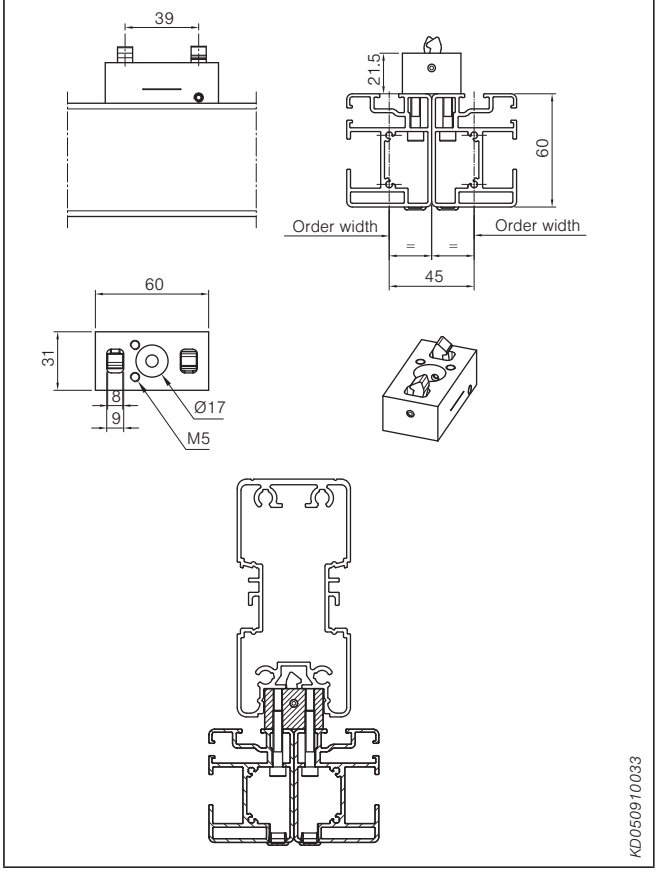

Fig. 381: Guide rail brackets for coupled units (mounting on T1)

Bracket no. 101 (see Fig. 382) can also be used for mounting series-mounted units on T1.

Mounting on patio roof with side glazing (Sunflex)

Brackets for side glazing by Sunflex (W10)

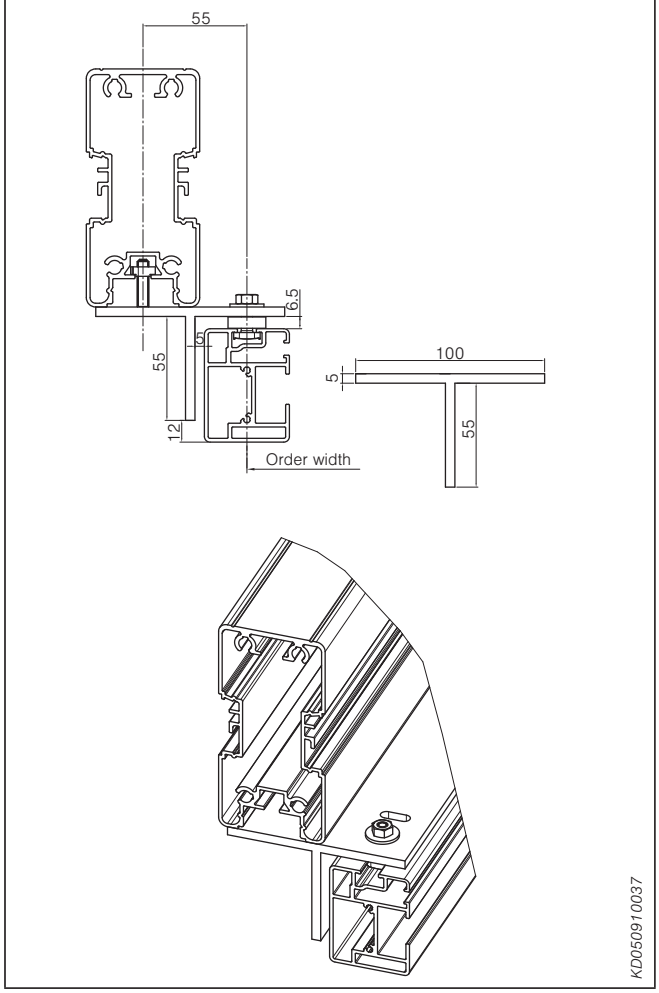

Fig. 382: Fixing W10 on T1 with side glazing (Sunflex)

Attention!
When using this guide rail bracket it has to be mounted before measurement of the side glazing (Sunflex).

Mounting on third-party product

Bracket no. 48 (W10)

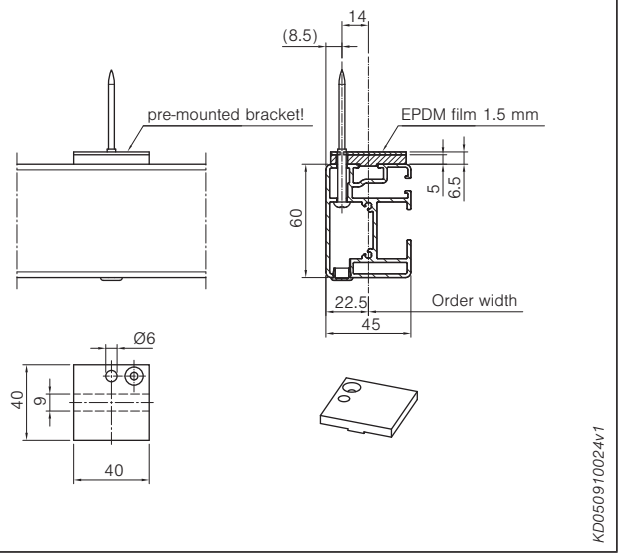

Fig. 383: Guide rail bracket for mounting on third-party product, distance 6.5 mm, mounted on the guide rail at the factory

Ceiling supports for brackets no. 48, 52 and 53

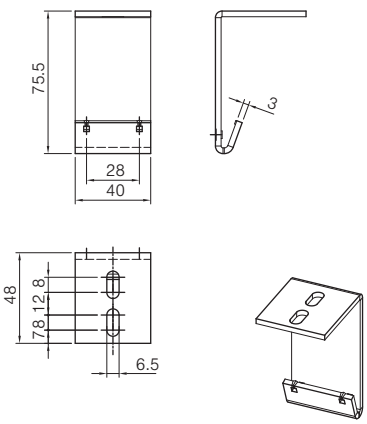

Fig. 384: Ceiling supports for mounting on third-party product, distance 6.5 mm

Bracket no. 53 (W10)

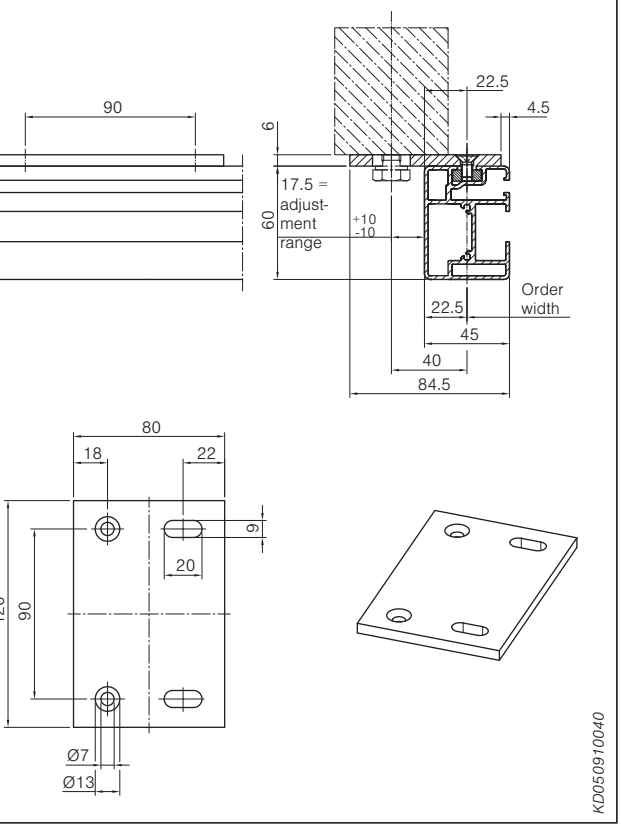

Fig. 385: Guide rail brackets for mounting on third-party product

Bracket no. 52 (W10)

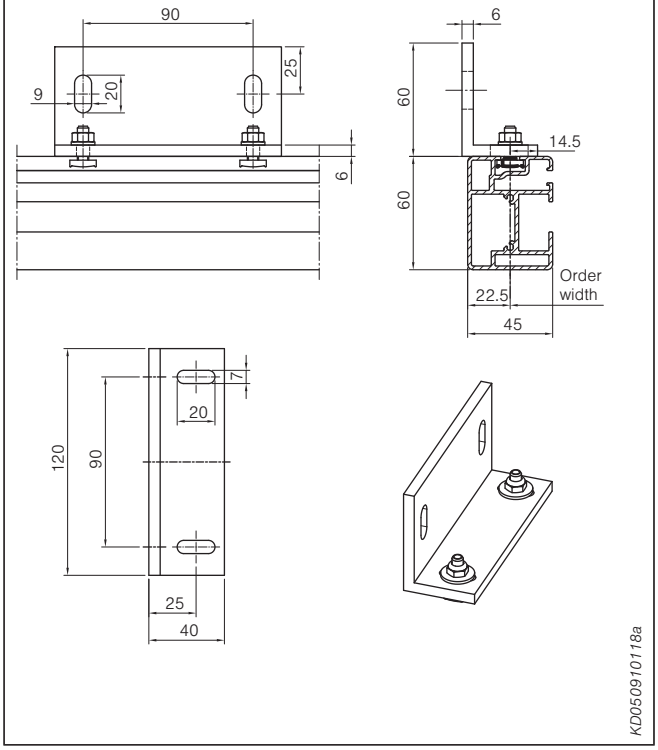

Fig. 386: Guide rail brackets for mounting on third-party product, lateral fixing

Conservatory awning W10

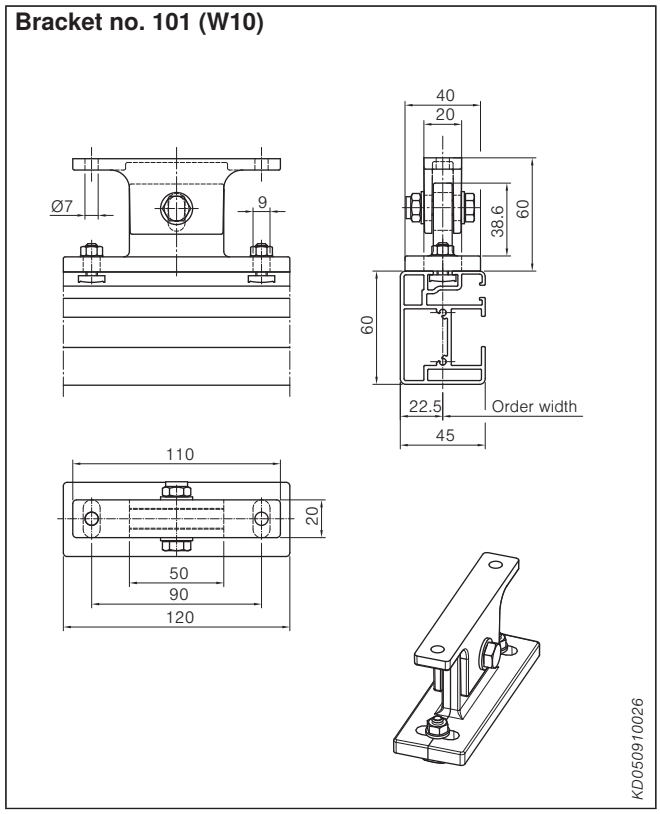

Fig. 387: Guide rail brackets for mounting on third-party product, distance 60 mm

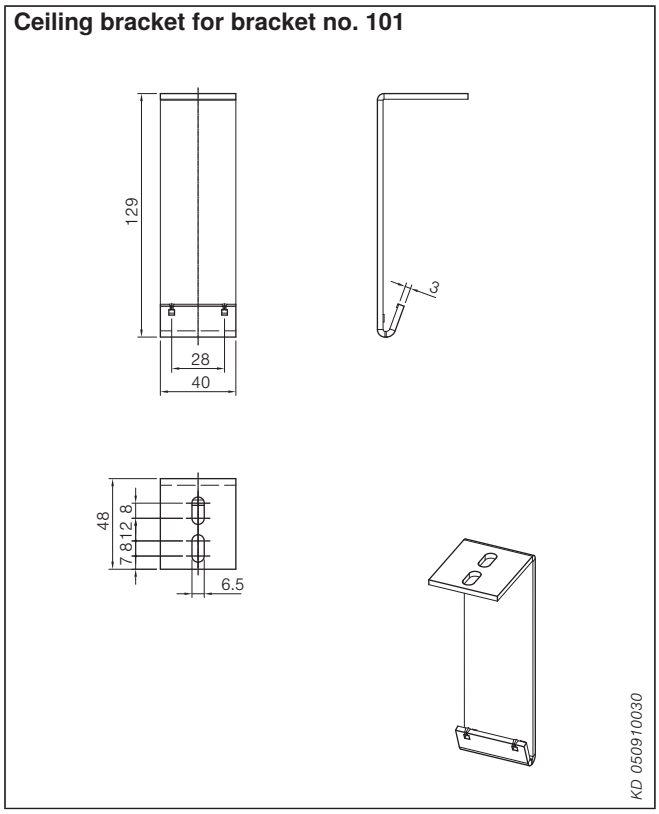

Fig. 388: Ceiling supports for mounting on third-party product, distance 60 mm

Mounting on third-party product – Coupled units

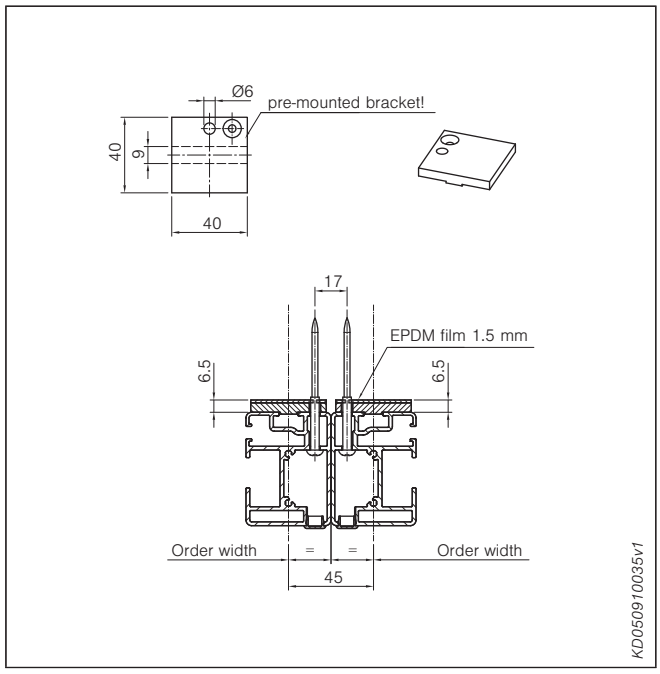

Fig. 389: Guide rail brackets for coupled units (mounting on third-party product), distance 6.5 mm

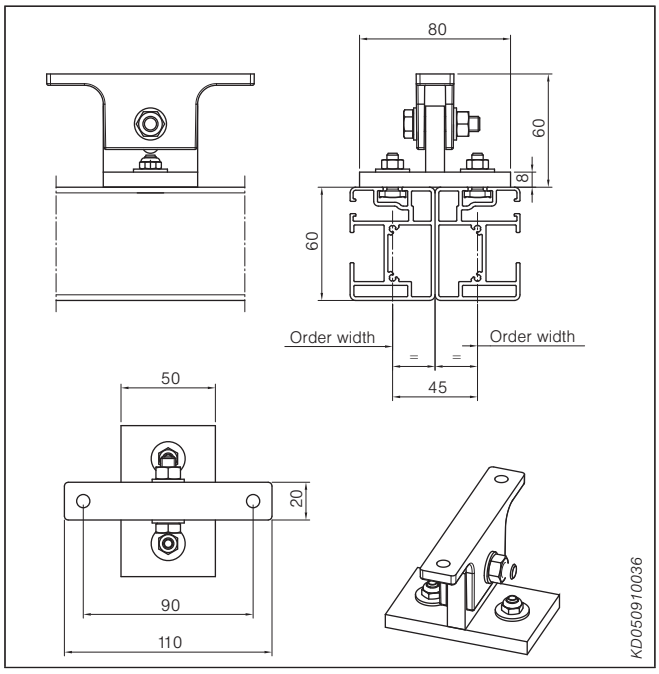

Fig. 390: Guide rail brackets for Coupled units (mounting on third-party product), distance 60 mm

Conservatory awning W10
Direction of movement "from bottom to top"

Field of application

Internal conservatory awnings W10 are fitted under glazing and can be used with direction of movement "from bottom to top".

Notes:

- Conservatory awnings W10 are only available as individual units, i.e. no coupled units and no motor/end bearing situations are possible! Each awning section requires 2 guide rails of its own!
- Due to the cover panel opening in extension direction there is an increased risk of the fabric becoming soiled.
- For construction limit values see page 237.

Order data

Please specify clearly on the order form:

- W10 - direction of movement "from bottom to top"
- State roof pitch

Measuring instructions

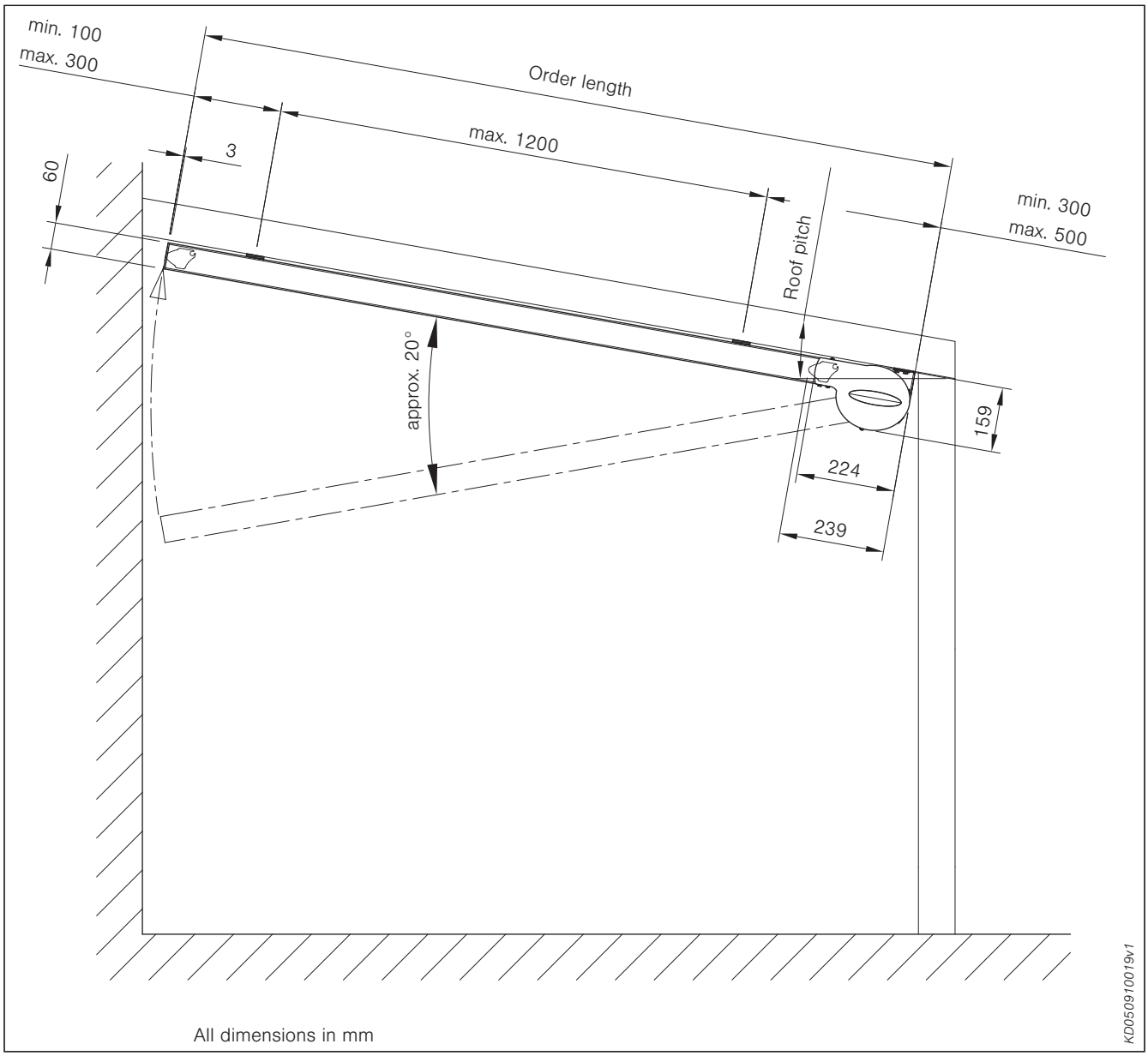

Fig. 391: Measuring instructions for conservatory awning type W10 – direction of movement "from bottom to top". Mounting on T1

Conservatory awning W10

Fixing material on patio roof T1

Designation		Order no.	Unit
Bracket no. 47			Quantity
Ceiling supports		503321	Quantity
Spacer for ceiling support		504097	Quantity
Screw	DIN 933 M6x30	732014	Quantity
Washer	DIN 9021 6.4	742006	Quantity
Slot nut M6 retractable	M6	506043	Quantity

Fixing material on aluminium

Designation		Order no.	Unit
Bracket no. 48			Quantity
Screw	Chipboard screw with pan head A2 4.5x40	746119	Quantity
Ceiling supports		503321	Quantity
Screw	DIN 7976 C 4.8x32	721006	Quantity
Washer	DIN 9021 A2 5,3	742005	Quantity

Fixing material on wood

Designation		Order no.	Unit
Bracket no. 48			Quantity
Screw	Chipboard screw with pan head A2 4x60	746157	Quantity
Ceiling supports		503321	Quantity
Screw	DIN 7976 C 4.5x50	790283	Quantity
Washer	DIN 9021 A2 5,3	742005	Quantity

Fixing material on steel

Designation		Order no.	Unit
Bracket no. 48			Quantity
Screw	DIN 912 VA M5x40	730054	Quantity
Ceiling supports		503321	Quantity
Screw	DIN 912 VA M5x25	790855	Quantity
Washer	DIN 9021 A2 5,3	742005	Quantity

Conservatory awning W10

Fixing material on patio roof T1

Designation		Order no.	Unit
Bracket no. 101			Quantity
Screw	DIN 933 M6x16	732050	Quantity
Washer	DIN 9021 6.4	742006	Quantity
Slot nut M6 retractable	M6	506043	Quantity
Ceiling supports		503410	Quantity
Spacer for ceiling support		504097	Quantity
Screw	DIN 933 M6x30	732014	Quantity
Washer	DIN 9021 6.4	742006	Quantity
Slot nut M6 retractable	M6	506043	Quantity

Fixing material on aluminium

Designation		Order no.	Unit
Bracket no. 101			Quantity
Screw	DIN 7976 C 4.8x32	721006	Quantity
Washer	DIN 9021 A2 5,3	742005	Quantity
Ceiling supports		503410	Quantity
Screw	DIN 7976 C 4.8x32	721006	Quantity
Washer	DIN 9021 A2 5,3	742005	Quantity

Fixing material on wood

Designation		Order no.	Unit
Bracket no. 101			Quantity
Screw	DIN 7996 4.5x40	728011	Quantity
Washer	DIN 9021 A2 5,3	742005	Quantity
Ceiling supports		503410	Quantity
Screw	DIN 7996 4.5x50	790283	Quantity
Washer	DIN 9021 5.3	742005	Quantity

Fixing material on steel

Designation		Order no.	Unit
Bracket no. 101			Quantity
Screw	DIN 933 VA M6x25	732013	Quantity
Washer	DIN 9021 A2 6,4	742006	Quantity
Ceiling supports		503410	Quantity
Screw	DIN 933 VA M6x25	732013	Quantity
Washer	DIN 9021 A2 6,4	742006	Quantity