

Always plan with the
correct data.

Technical data



Window awnings

Der SonnenLichtManager

Description

Vertical awning 490

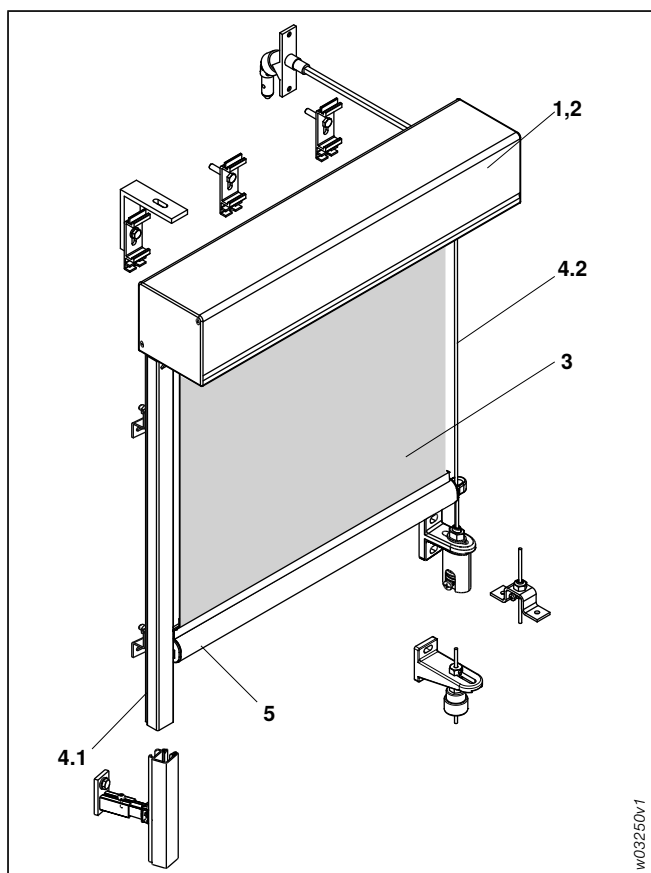


Fig. 29: Vertical awning 490

- 1 Box
- 2 Fabric shaft
- 3 Fabric
- 4 Lateral guidance
 - 4.1 Rail
 - 4.2 Tension cable
- 5 Drop profile

Application

Textile external sun shading system with small box size for shading vertical punched or element windows as well as for direct mounting in the soffit (sheltered from the wind).

Operation

Basic motor, 230 V, 50 Hz

LT50 with mechanical limit switch-off (optionally with EWFS/WMS Plug receiver)

EWFS radio motor, 230 V, 50 Hz (optionally)

W-MP with electronic limit switch-off

WMS radio motor, 230 V, 50 Hz (optionally)

WMS-MP with electronic limit switch-off

More information about drives from page 297.

Crank

Worm gear with crank rod and collapsible crank; sealed swivel plate and square with patented thermal separation.

Material: aluminium
 Surface: C0 anodised
 Gear ratio: 6.5:1
 Crank holder: plastic (grey, white or brown), crank holder with magnet optional

The fabric shaft contains a spindle lock to provide a lower limit for the extension of the fabric.

Mechanical coupling may result in displacement of the drop profiles by ± 20 mm (coupling play).

Box (1)

with revision cover, available for left and right rolling units

Material: aluminium, extruded
 Material thickness: 1.4 mm
 Dimensions (h x d): 94x100 mm
 Surface: powder coated, C0 anodising optional
 Fixing: with aluminium wall or ceiling brackets
 Side covers: aluminium, powder coated

Fabric shaft (2)

Material: aluminium, extruded
 Material thickness: 1.5 mm
 Dimensions ($\varnothing$): 62 mm
 Profile: groove tube
 Surface: plain
 With piping groove for attaching the fabric.

Fabric (3)

Fabric qualities: Acrylic Standard/Lumera
 Acrylic Perfora/All Weather
 Soltis 92
 Screen
 More information about the fabrics see page 292

Designs: according to current WAREMA collection

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

Description

Vertical awning 490

Lateral guide (4)

Rail (4.1)

C profile with black piping inserted for noise reduction

Material: aluminium, extruded

Dimensions (w x h): 25x18 mm

Profile: C profile

Surface: powder coated, C0 anodising optional

Fixing: guide rail bracket (for left or right rolling unit)

End cap: plastic, black

Piping: weather proof, UV stable, black

Tension cable (4.2)

Strand wire

Material: steel, resistant to corrosion

Coating: polyamide

Dimensions (Ø): 3.3 mm

Colour:

black or transparent coating

Fixing:

tension cable bracket, aluminium, incl.

spring tension device aluminium

Drop profile (5)

Material: aluminium, extruded

Material thickness: 1.5 mm

Dimensions (w x h): 25 x 28 mm

Profile: oval tube, external beading channel

Surface: powder coated, C0 anodising optional

Available as models "concealed in fabric" or "visible".

Fixing and connecting parts

within the vertical awnings

Material: A2 steel or aluminium

Weight table

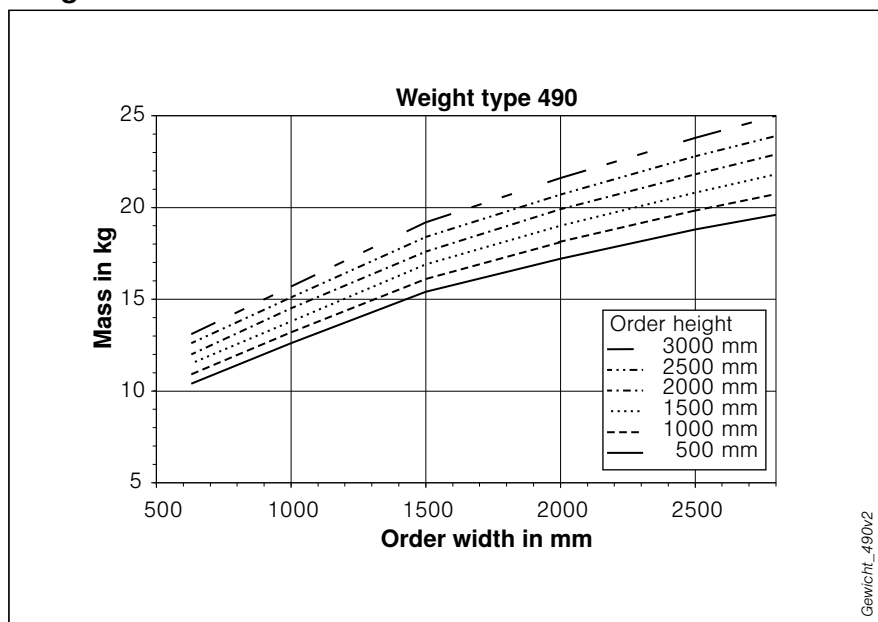


Fig. 30: Weight type 490

Colours

Powder coating of aluminium parts with chrome-free pre-treatment according to current RAL CLASSIC colour chart (except camouflage and luminous colours) or in DB 701, 702, 703 as well as 8 textured colours (W4914-W4921), four anodised look colours (WC31-WC34) and additional colours according to WAREMA colour range (in WAREMA colour specification), alternatively C0 anodised.

Other colour specifications, custom colours or anodising (colour) are available subject to surcharge.

All visible plastic parts are black.

Construction limit values

Vertical awning 490

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

More mounting examples for different wall constructions for use in consultations can be found in our application brochure awnings, art. no. 874497.

Construction limit values

	Type of fabric	Individual unit		Mechanically coupled (max. 3 units)	
		crank	motor	crank	motor
Min. width ¹⁾ (mm)	Acrylic - all variants -	600	640	600	640 ²⁾
	Screen	600	640	600	640 ²⁾
	Soltis 92	600	640	600	640 ²⁾
Max. width (mm)	Acrylic - all variants -	2800	2800	7000 ³⁾	7000 ³⁾
	Screen	2500	2500	7000 ³⁾	7000 ³⁾
	Soltis 92	2800	2800	7000 ³⁾	7000 ³⁾
Max. height (mm)	Acrylic Standard/ Lumera	2500 ⁴⁾	2500 ⁴⁾	2500 ⁴⁾	2500 ⁴⁾
	Acrylic Perfora				
	Acrylic All Weather	2200	2200	2200	2200
	Screen	3000	3000	3000	3000
	Soltis 92	3000	3000	3000	3000
Max. surface area ⁵⁾ (m ²)	Acrylic Standard/ Lumera	6.7	6.7	16.8	16.8
	Acrylic Perfora				
	Acrylic All Weather	6.2	6.2	15.4	15.4
	Screen	7.5	7.5	20.0	20.0
	Soltis 92	8.4	8.4	20.0	20.0

Notes:

- Soltis 92 fabrics are bonded crosswise for order widths starting at 1800 mm.
- All units should then be used horizontally in order to give a uniform appearance across the entire building.
- Acrylic fabrics with an order width of more than 1200 mm are made from several individual lengths of fabric.

¹⁾ Smaller widths are possible after consultation with the Application Technology department!

²⁾ For unit with motor drive

³⁾ Maximum width for continuous box 5000 mm!

⁴⁾ Glued fabric connection optional for Standard and Perfora variants. Max. height reduced by 300 mm.

⁵⁾ The maximum areas indicated depend on the "width-to-height ratio" and may not exceed 1 to 3 (see also Page 13).

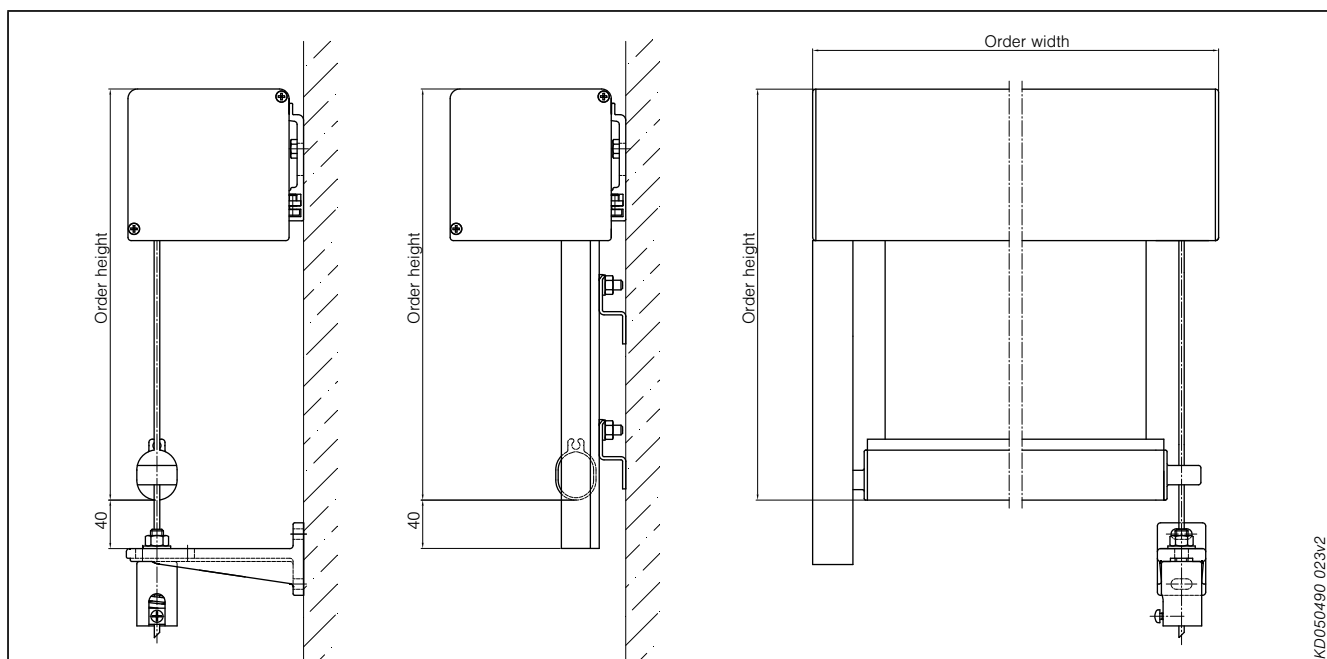


Fig. 31: Measuring instructions

Details

Vertical awning 490

Wall/ceiling brackets, guide rail brackets

Number of required wall/ceiling brackets

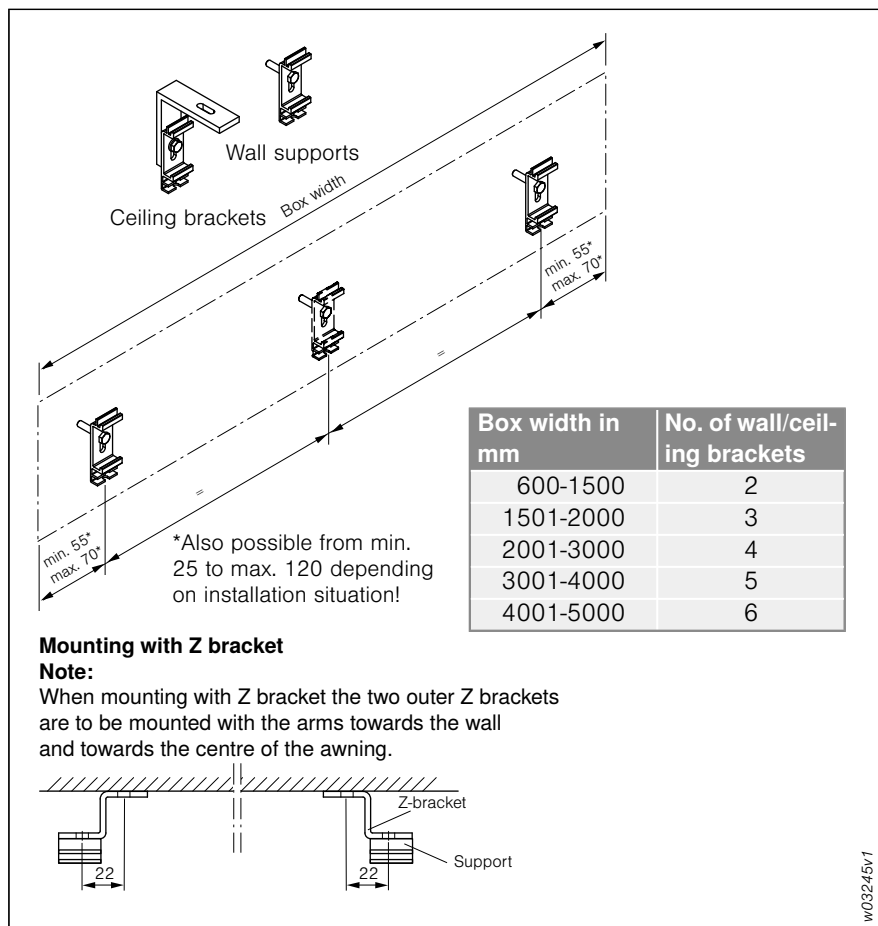


Fig. 32: Measuring instructions for wall/ceiling brackets

Number of required guide rail brackets

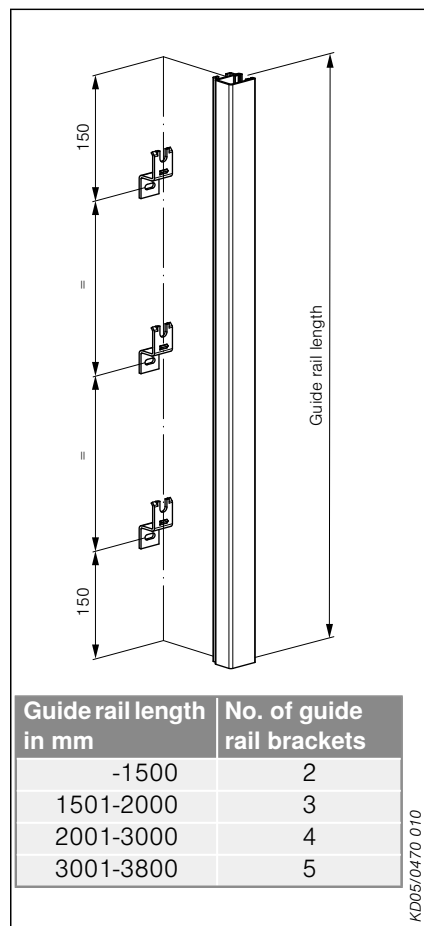


Fig. 33: Measuring instructions for guide rail brackets

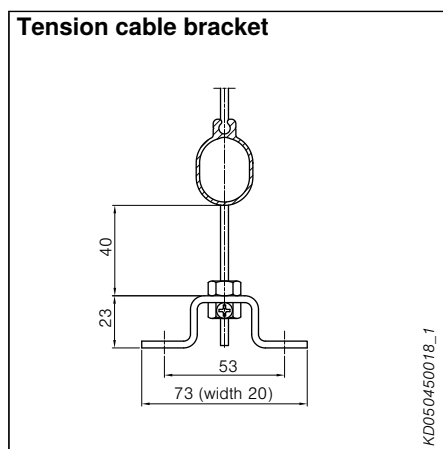


Fig. 34: Tension cable bracket

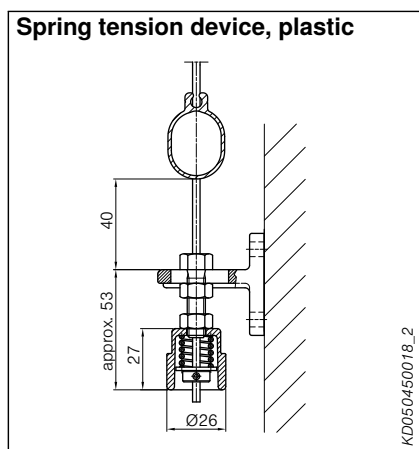


Fig. 35: Spring tension device, plastic

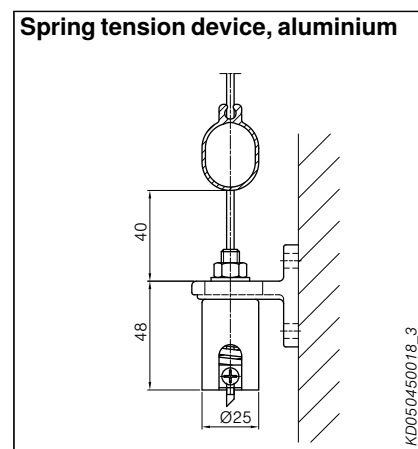


Fig. 36: Spring tension device, aluminium

Application example

Vertical awning 490 with cable guidance

Standard version – individual unit, left rolling, wall mounting

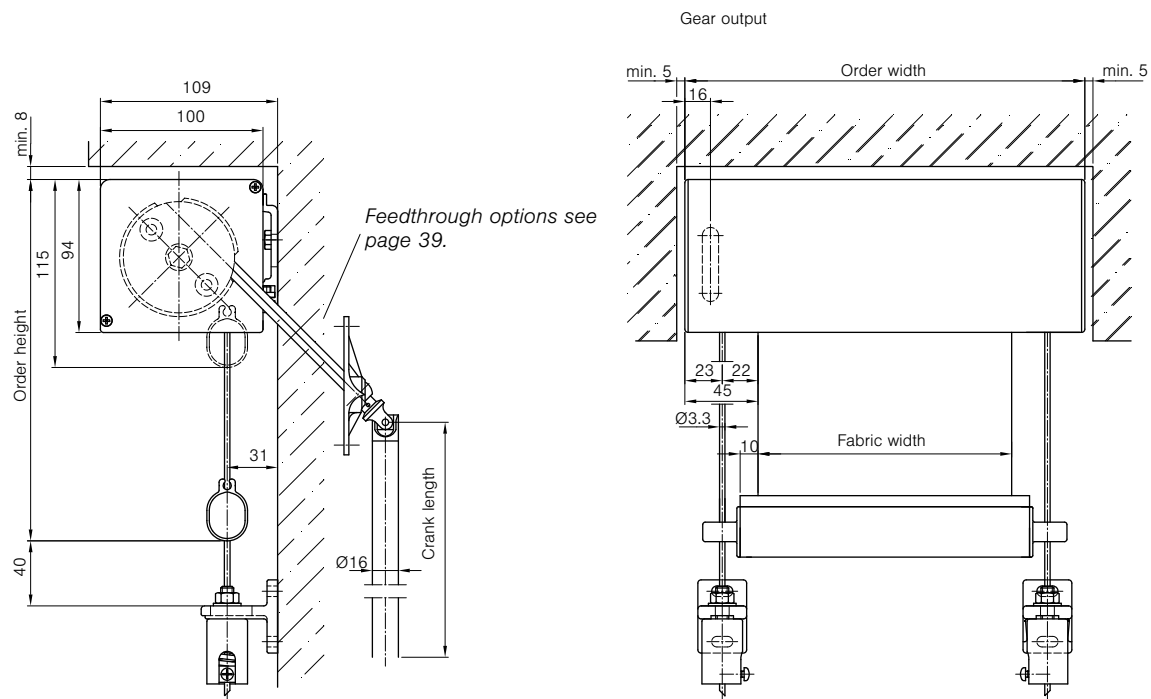
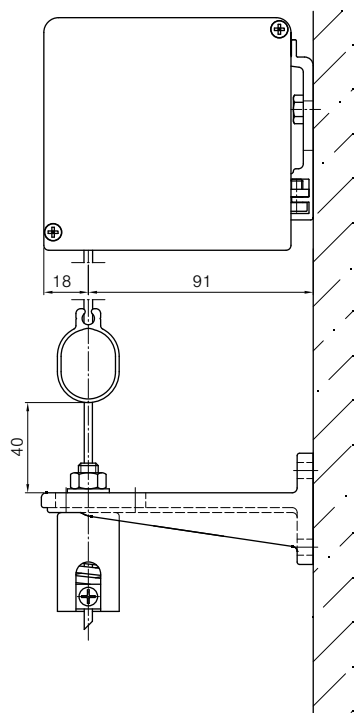


Fig. 37: Standard model vertical awning 490 with guide cables, crank drive

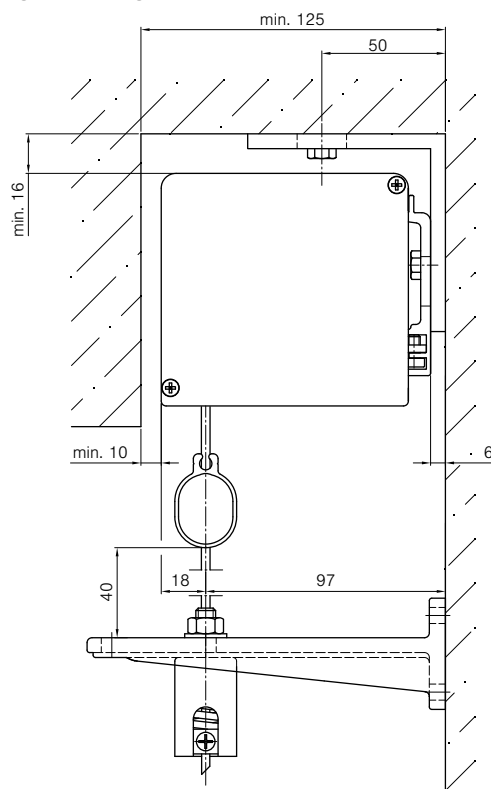
Possible variants

Right rolling



KD05/0490 003_1v2

Ceiling mounting



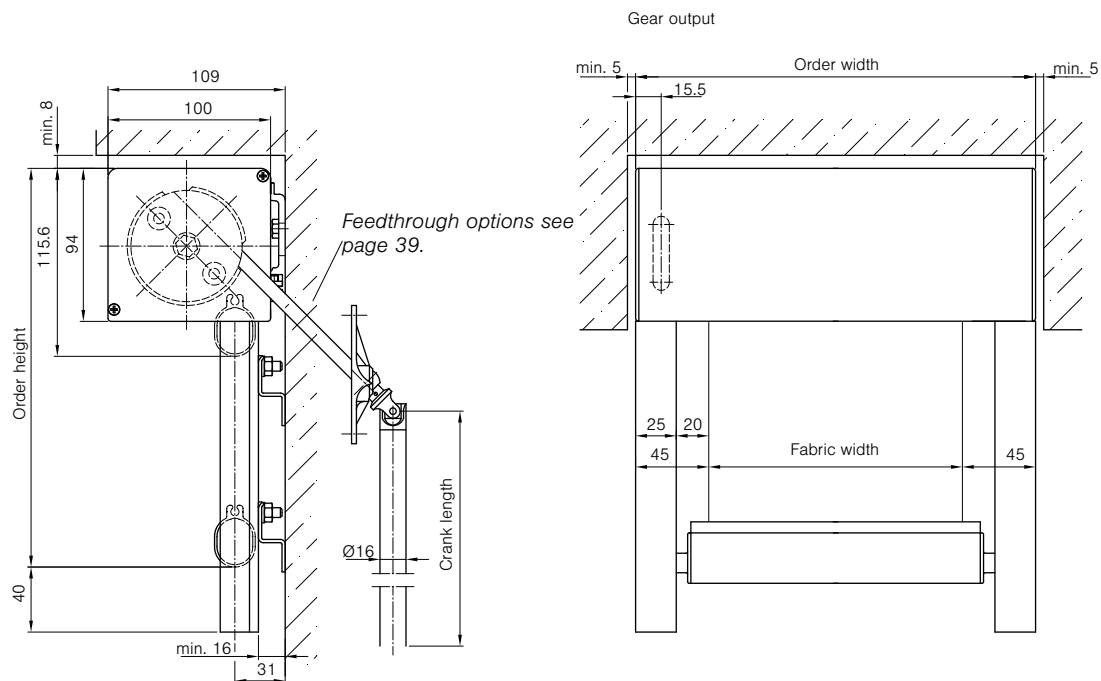
KD05/0490 003_2v2

Fig. 38: Possible variants vertical awning 490 with guide cables

Application example

Vertical awning 490 with rail guidance

Standard version – individual unit, left rolling, wall mounting

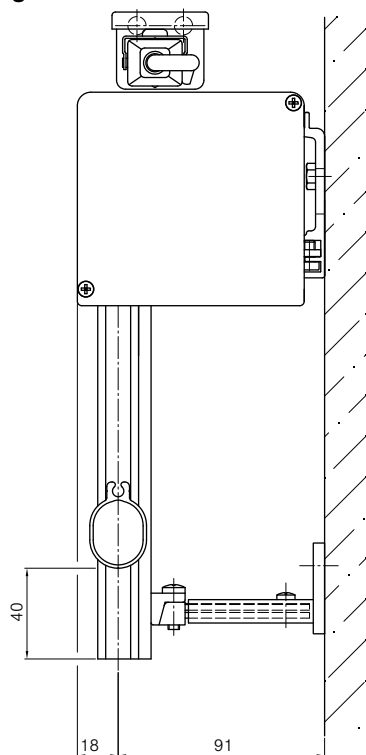


KD05/0490 004v1

Fig. 39: Standard model vertical awning 490 with guide rails, crank drive

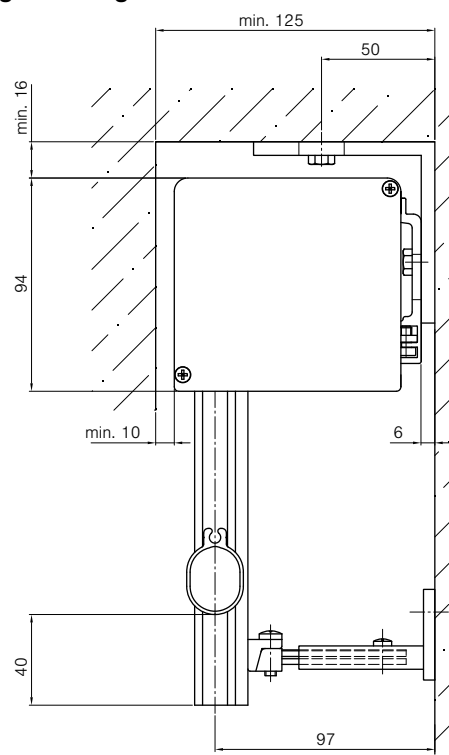
Possible variants

Right rolling



KD05/0490 021_1v1

Ceiling mounting



KD05/0490 021_2v1

Fig. 40: Possible variants vertical awning 490 with guide rails

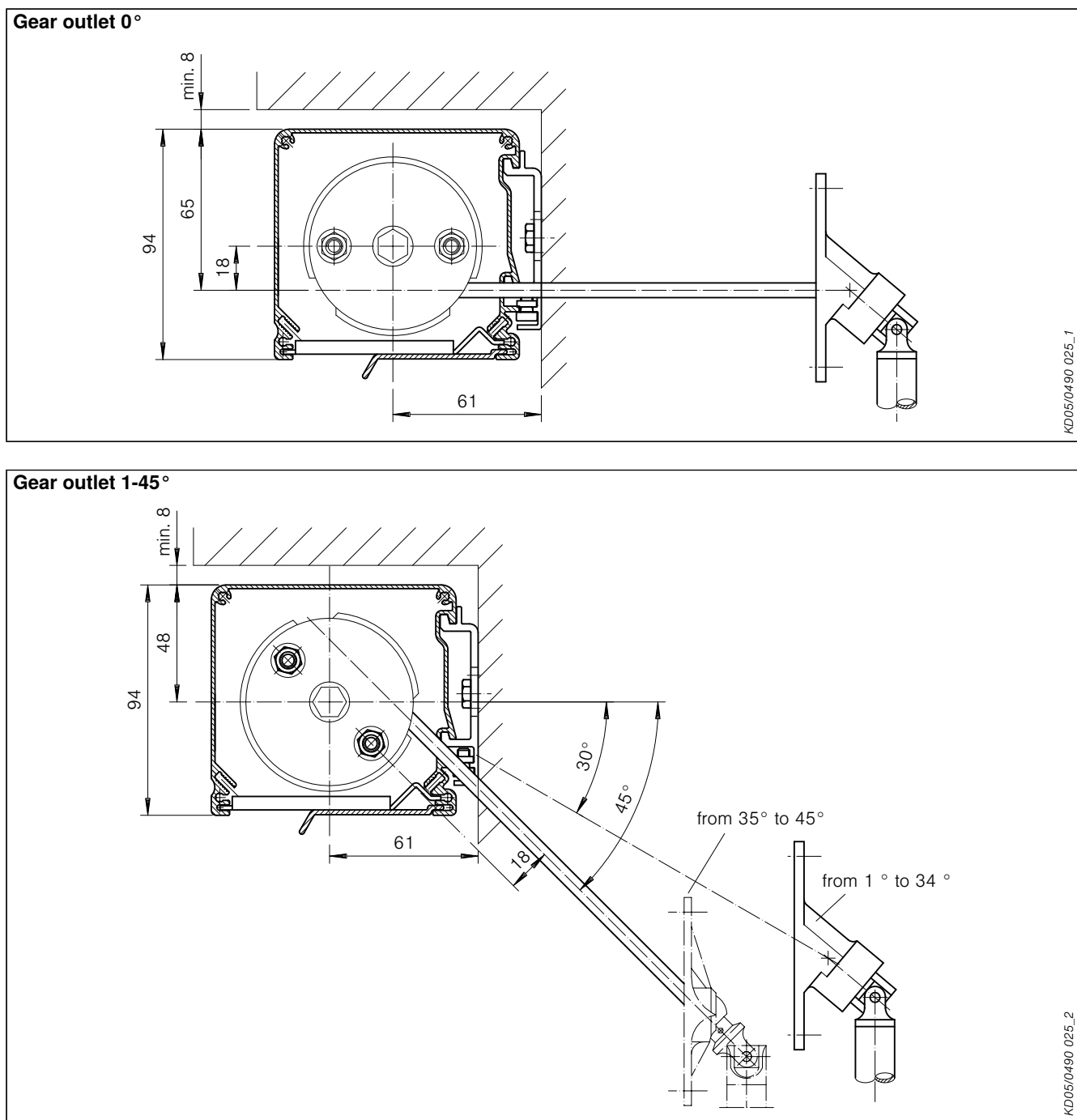


Fig. 41: Possible gear feedthrough positions

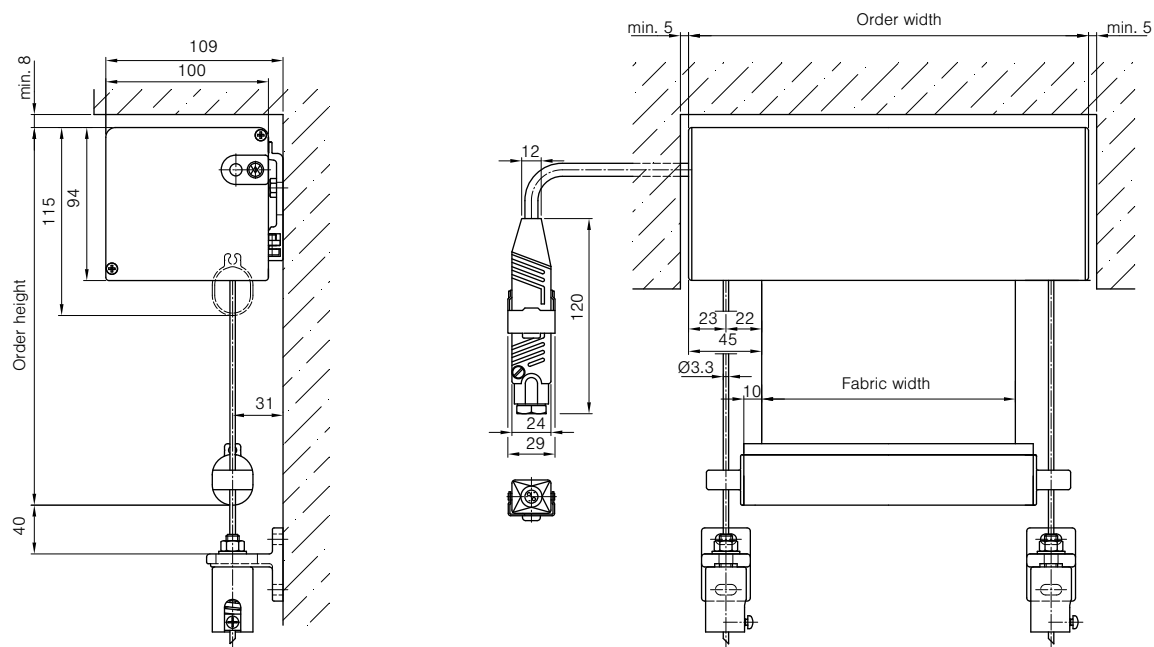
Application example

Vertical awning 490

with guide cables, variations for housing the plug-in connector

Note: The plug-in connector has to be accommodated in any case!

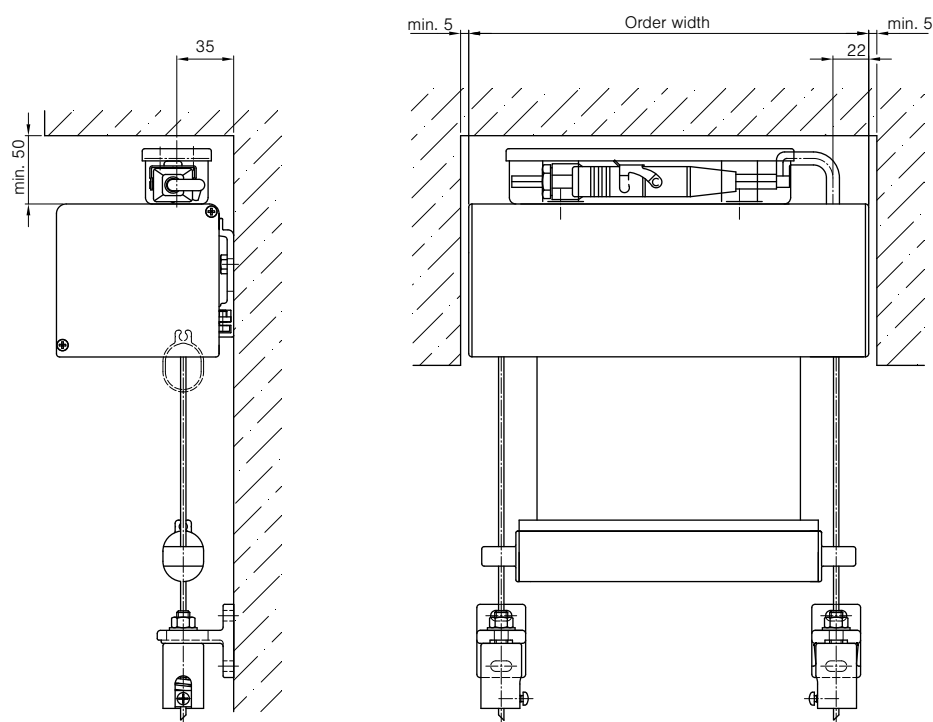
Individual unit, left rolling, wall mounting, with lateral cable outlet



KD05/0490 002v2

Fig. 42: Individual unit, left rolling, wall mounting, with lateral cable outlet

Cable outlet on top



KD05/0490 002Bv2

Fig. 43: Variations for housing the plug-in connector for guide cables

Application example

Vertical awning 490

with guide cables, variations for housing the plug-in connector

Note: The plug-in connector has to be accommodated in any case! Dimensions in brackets for EWFS and/or WMS Plug receiver.

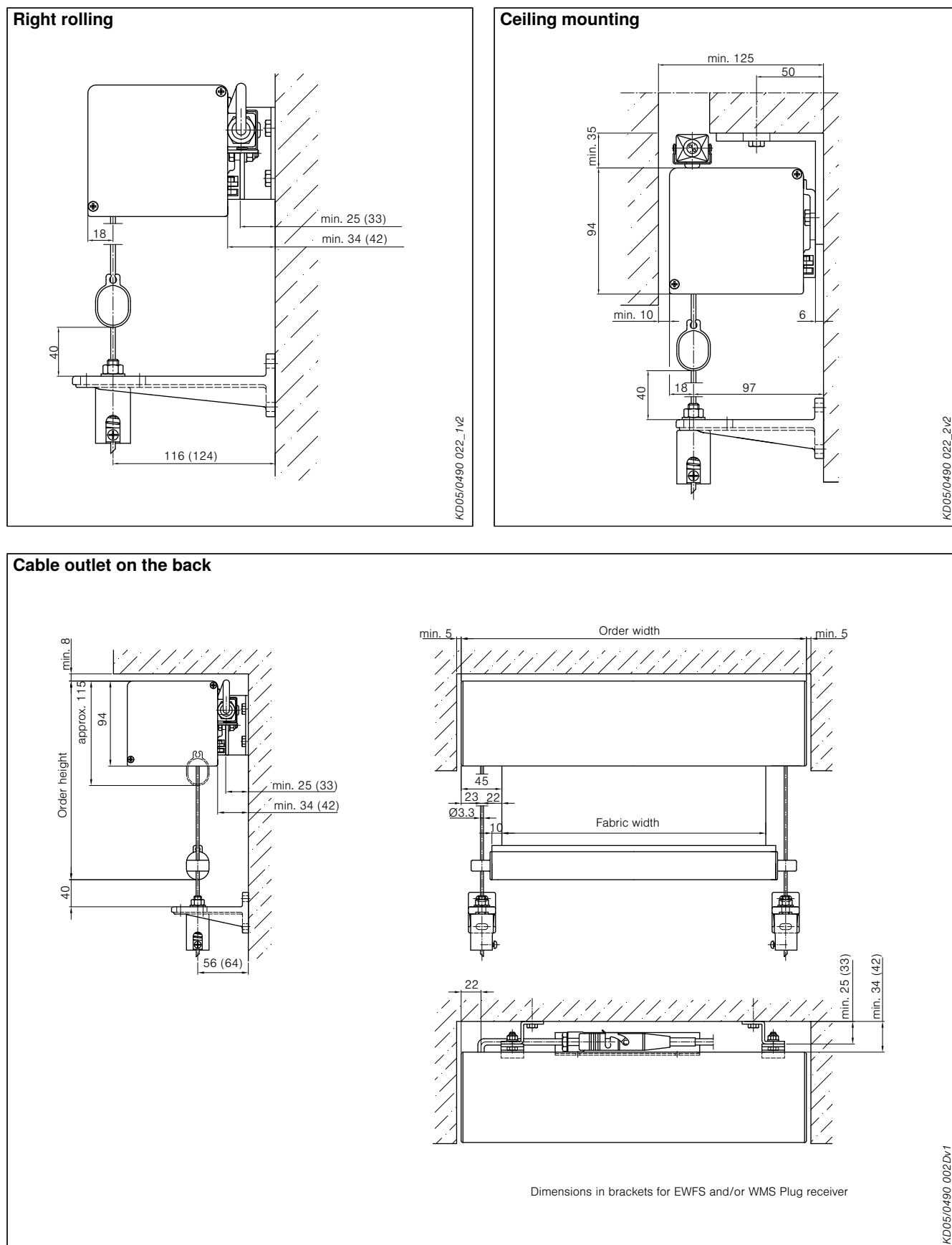


Fig. 44: Variations for housing the plug-in connector

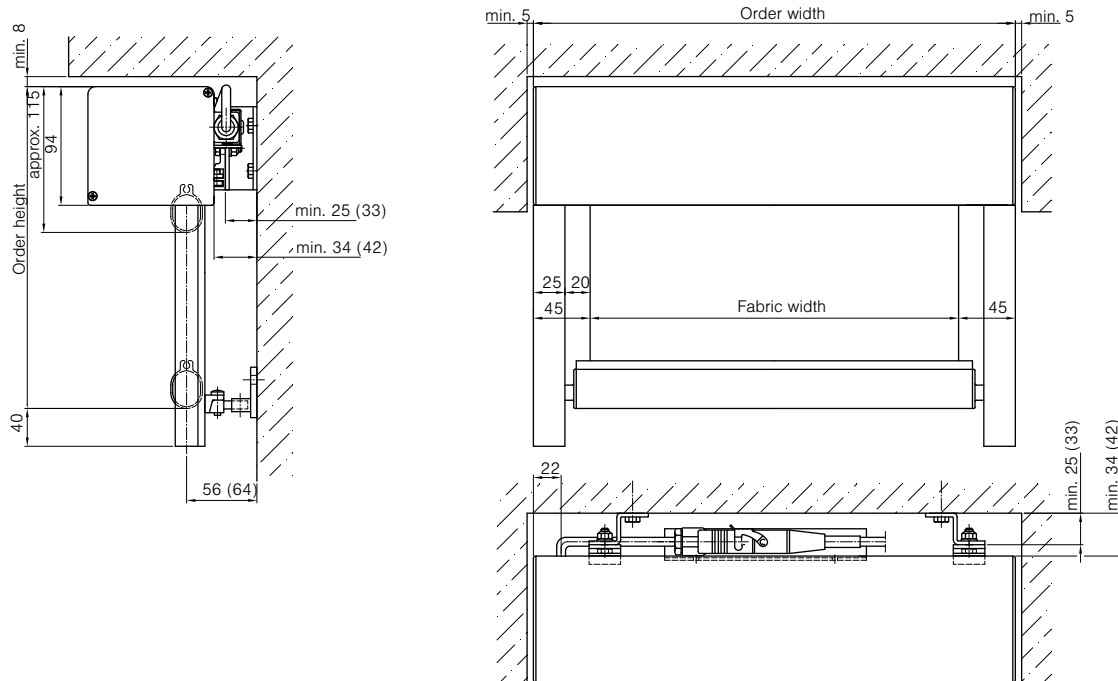
Application example

Vertical awning 490

with guide rails, variations for housing the plug-in connector

Note: Dimensions in brackets for EWFS and/or WMS Plug receiver.

Individual unit, left rolling, wall mounting, with cable outlet at the back

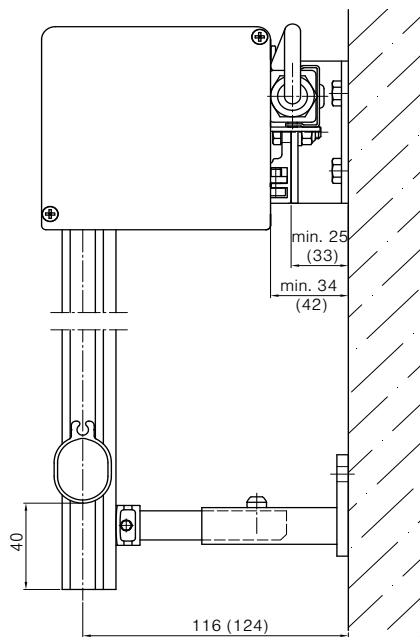


Dimensions in brackets for EWFS and/or WMS Plug receiver

KD05/0490 010v1

Fig. 45: Individual unit, left rolling, wall mounting, with cable outlet at the back

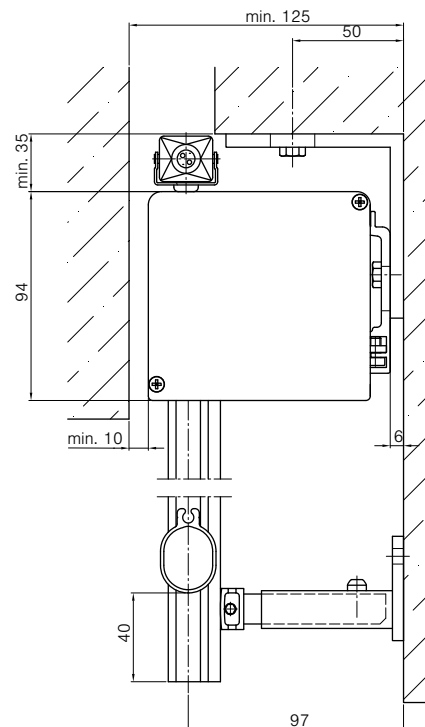
Right rolling



Dimensions in brackets for EWFS and/or WMS Plug receiver

KD05/0490 005_1v1

Ceiling mounting



KD05/0490 005_2v1

Fig. 46: Possible variants

Note: The plug-in connector has to be accommodated in any case!

Application example

Vertical awning 490

with guide rails, variations for housing the plug-in connector

Note: The plug-in connector has to be accommodated in any case!

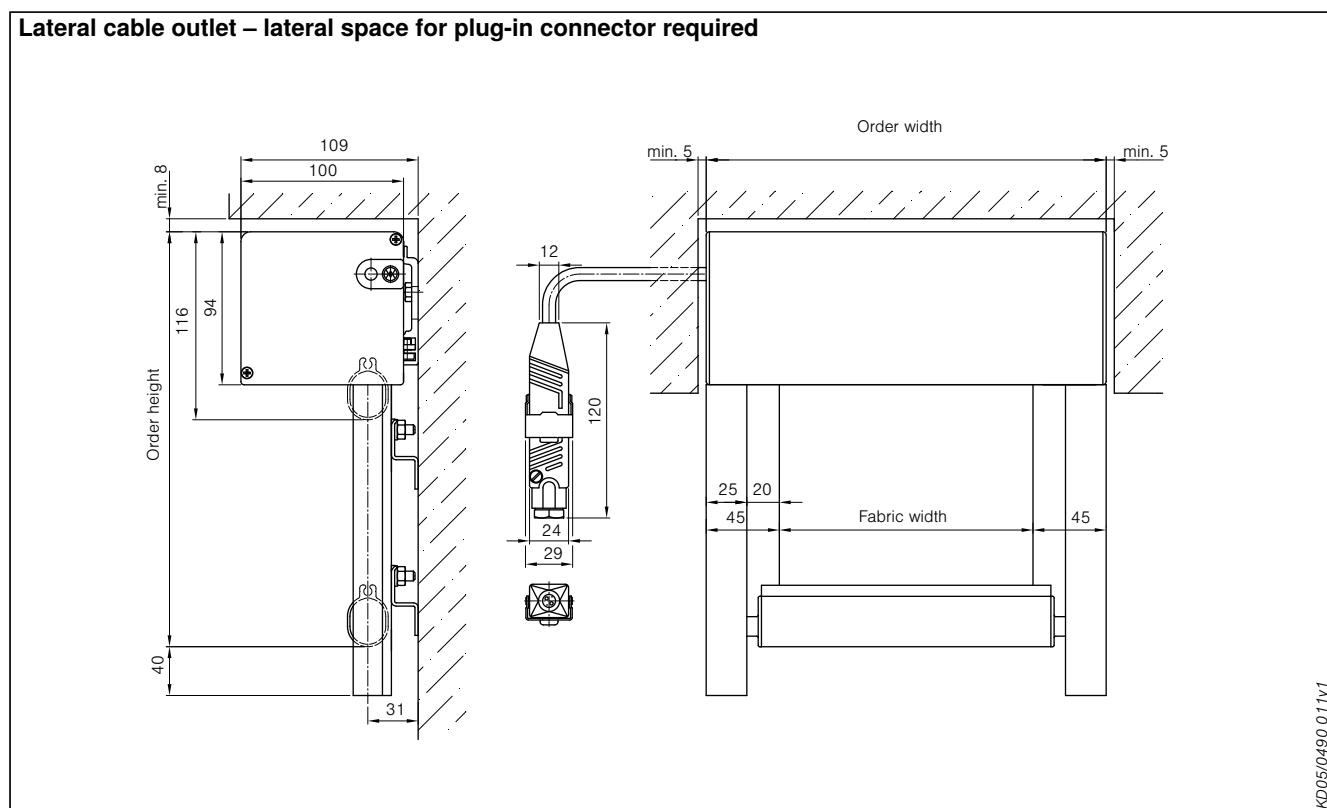
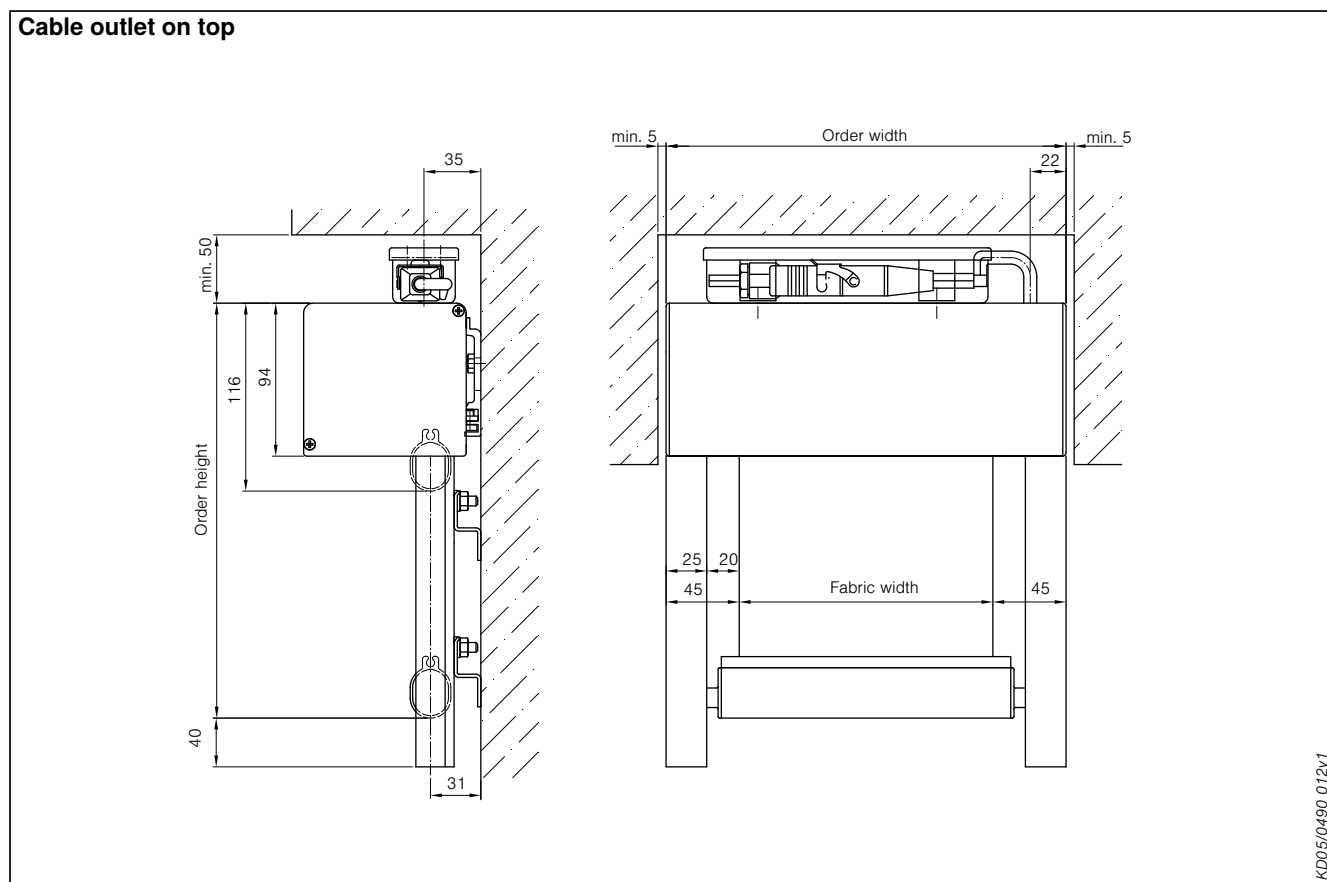


Fig. 47: Variations for housing the plug-in connector for guide rails

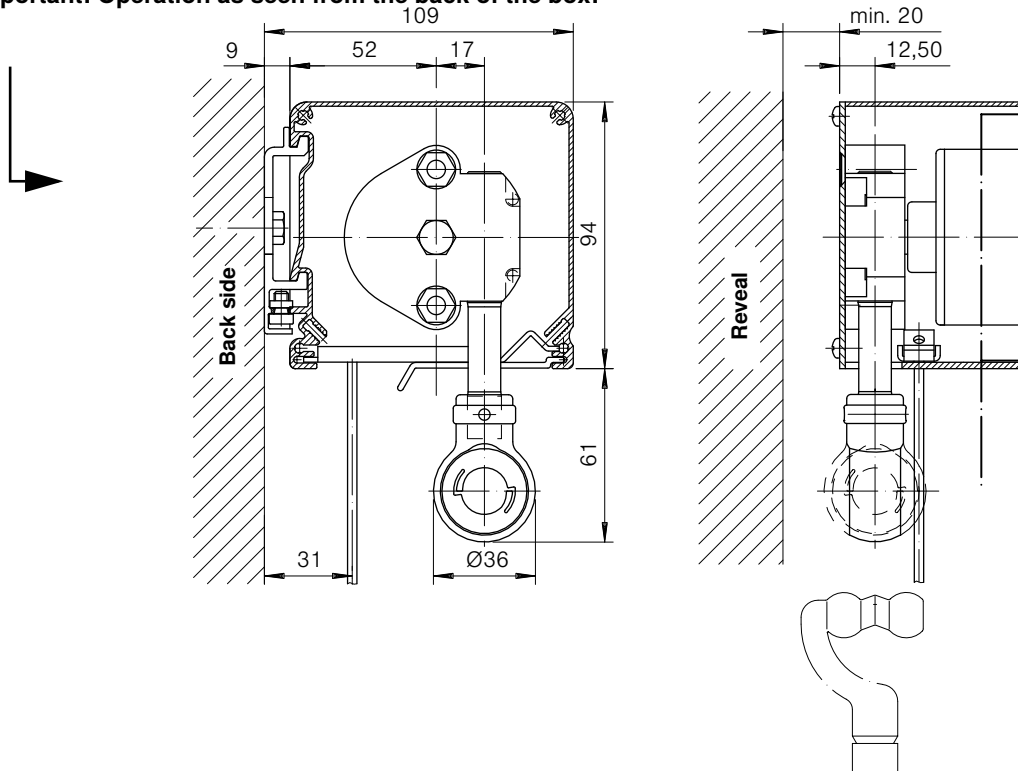
Details

Vertical awning 490

Drive variations

Gear with eye – left rolling unit

Important: Operation as seen from the back of the box!

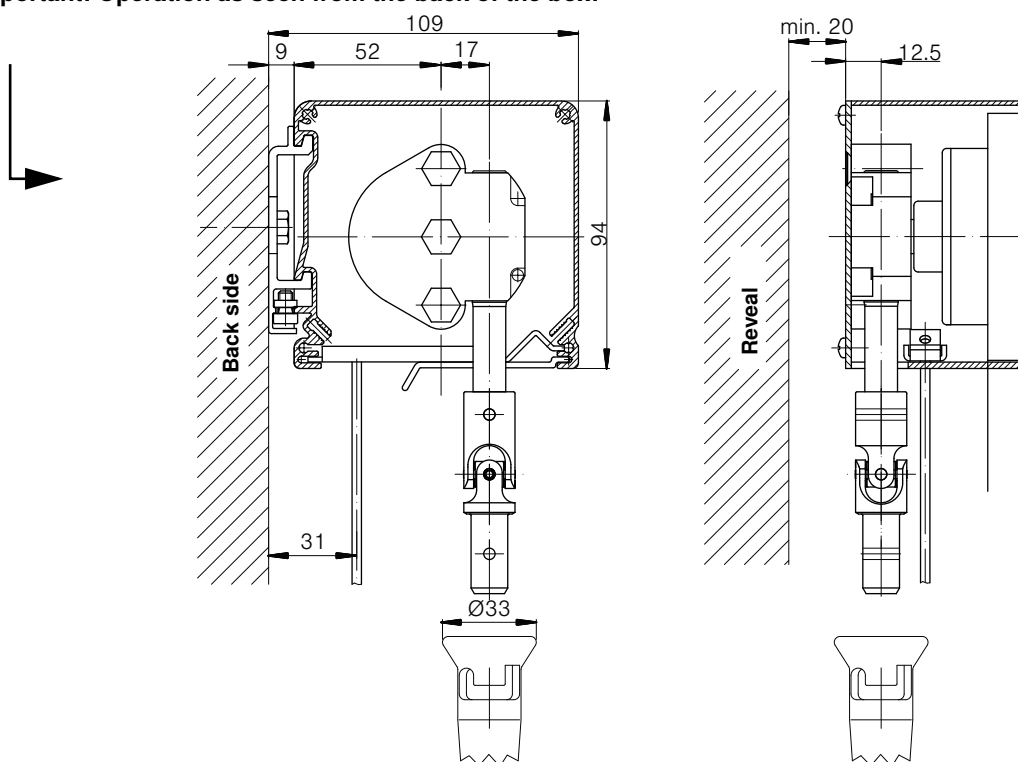


KD05/0490 008

Fig. 48: Gear with eye – left rolling unit

Gear with cardan joint – left rolling unit

Important: Operation as seen from the back of the box!



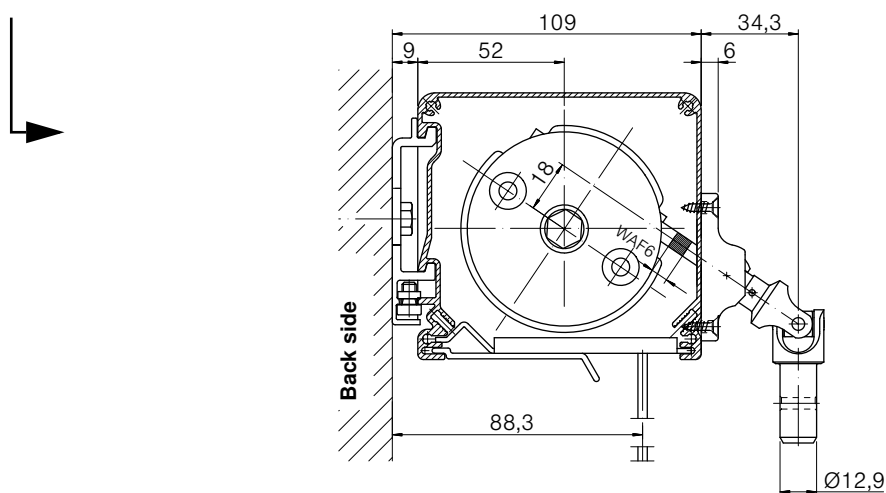
KD05/0490 020_4

Fig. 49: Gear with cardan joint – left rolling unit

Swivel plate on the box – right rolling unit

Important:

Operation as seen from the back of the box!

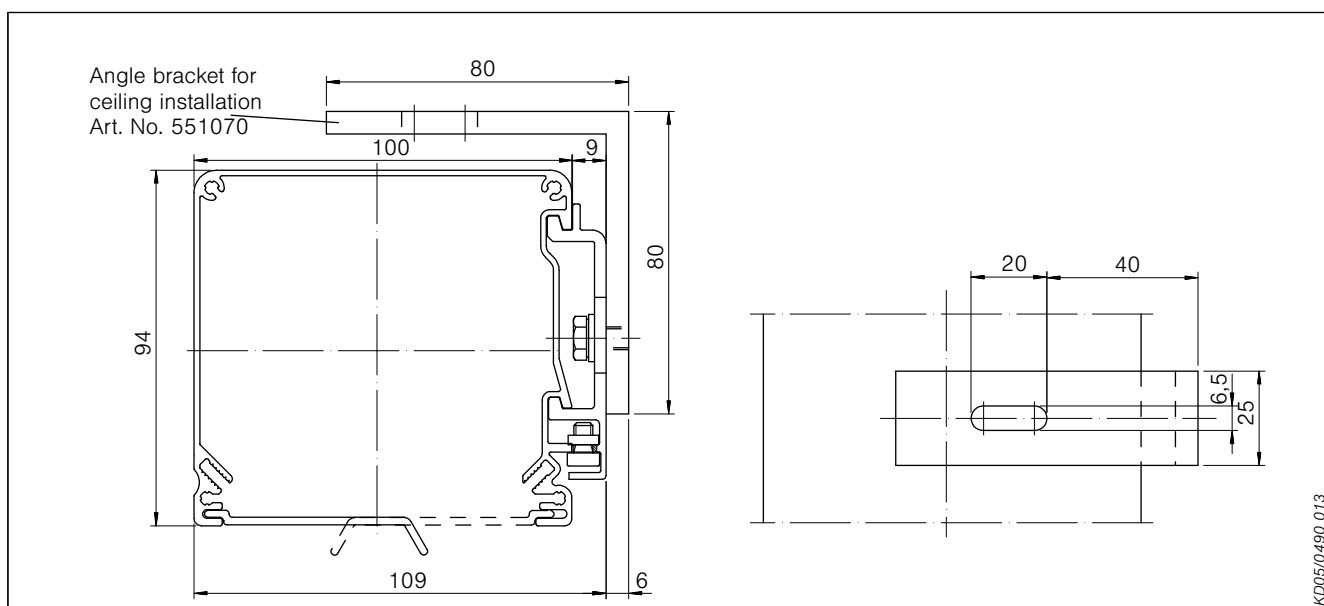
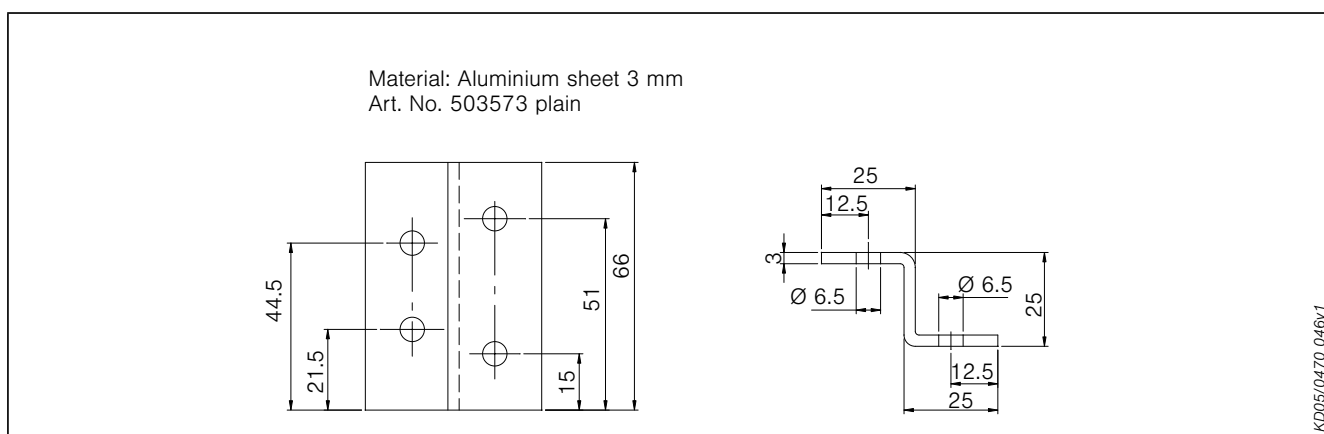
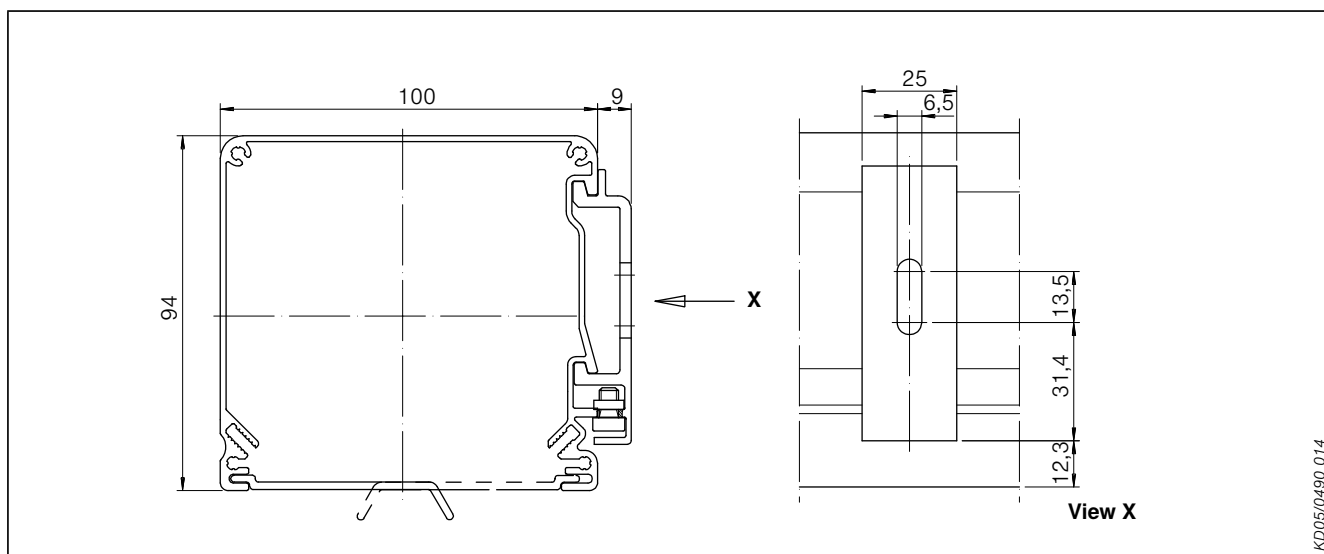


KD05/0490 008B

Fig. 50: Swivel plate on the box – right rolling unit

Details

Vertical awning 490 Wall/ceiling mounting



Vertical awning 490 **Limit position situations**

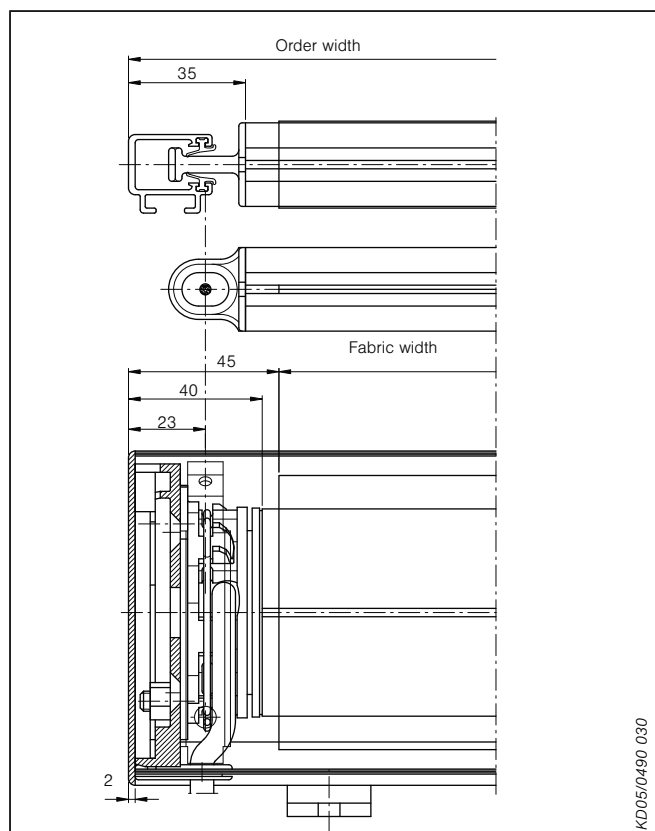


Fig. 54: Motor side

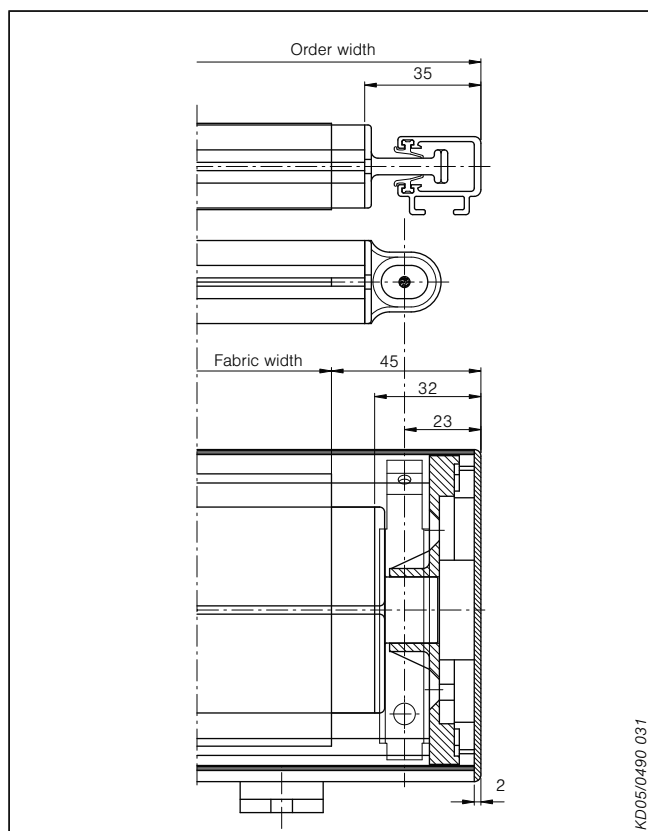


Fig. 55: End bearing

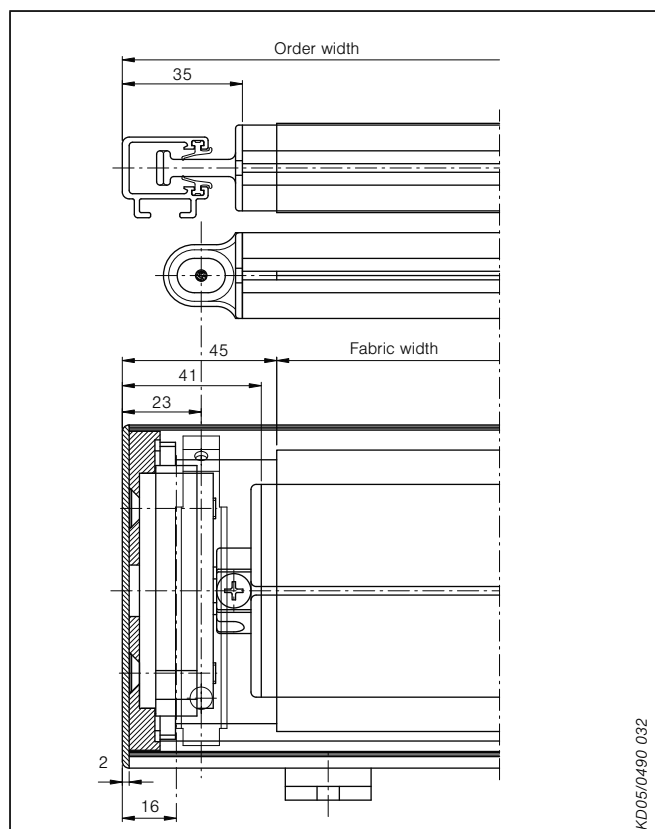


Fig. 56: Gear

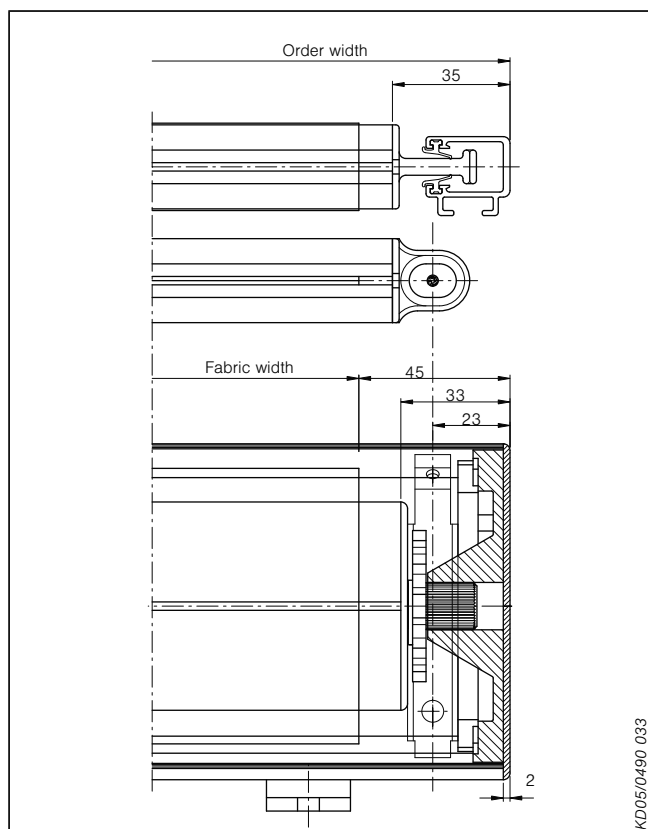


Fig. 57: Spindle lock

Details

Vertical awning 490

Possible couplings and linking of several units

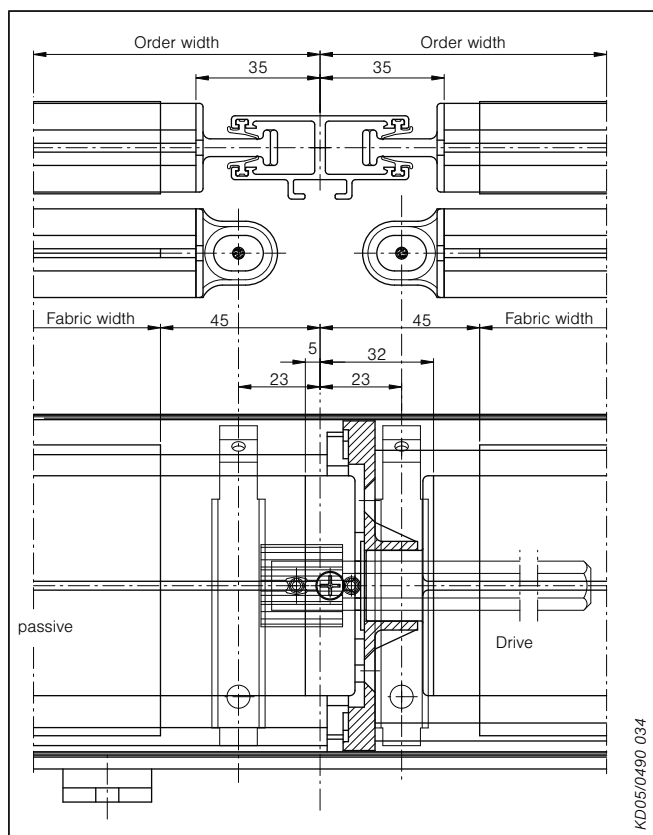


Fig. 58: Coupling, continuous box – standard

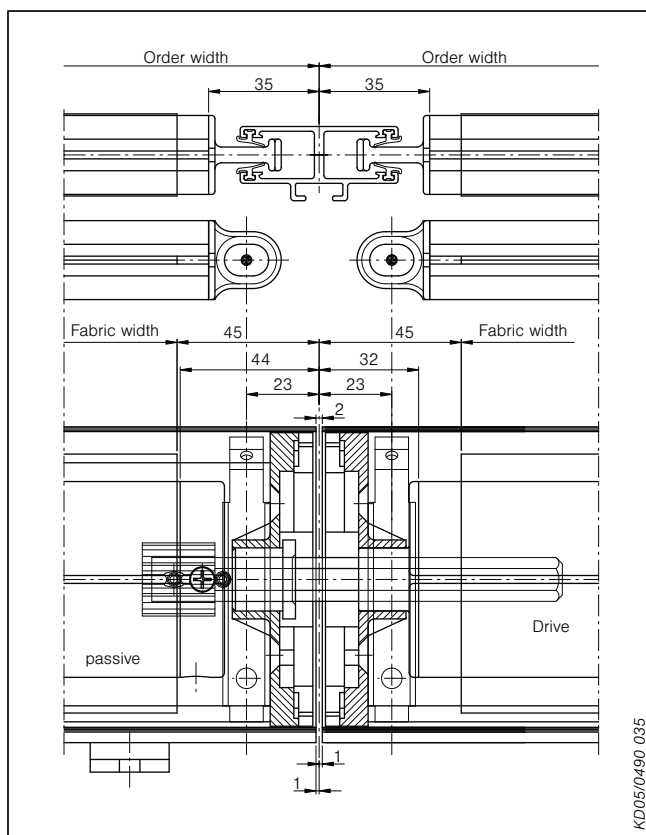


Fig. 59: Coupling, individual boxes – standard

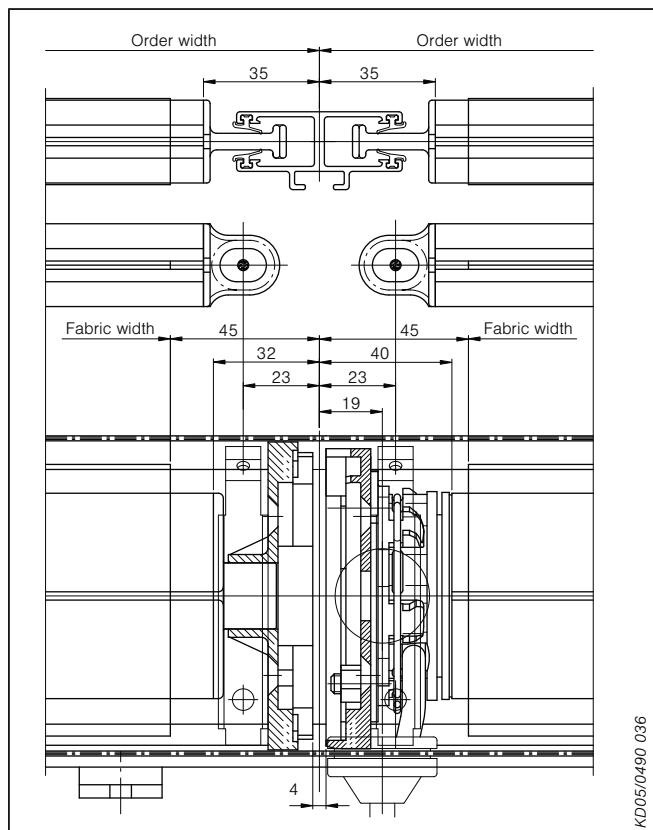


Fig. 60: Motor – centre of end bearing

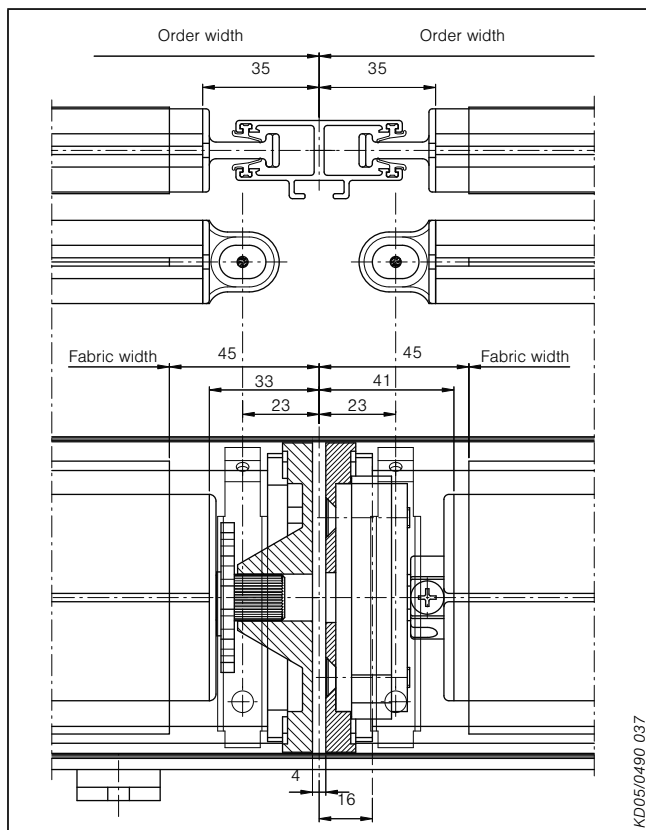


Fig. 61: Gear – centre of spindle lock

Vertical awning 490

Possible drives

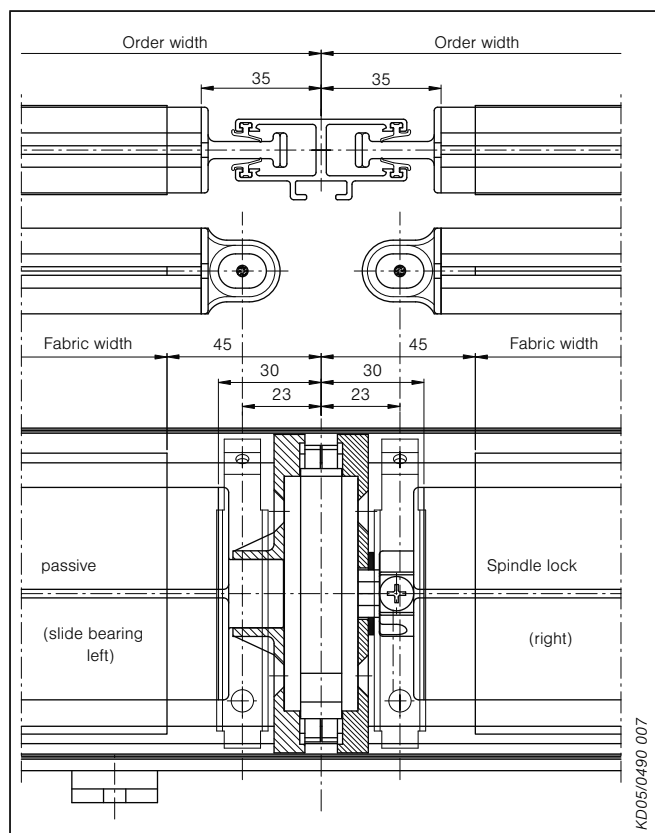


Fig. 62: Central gear

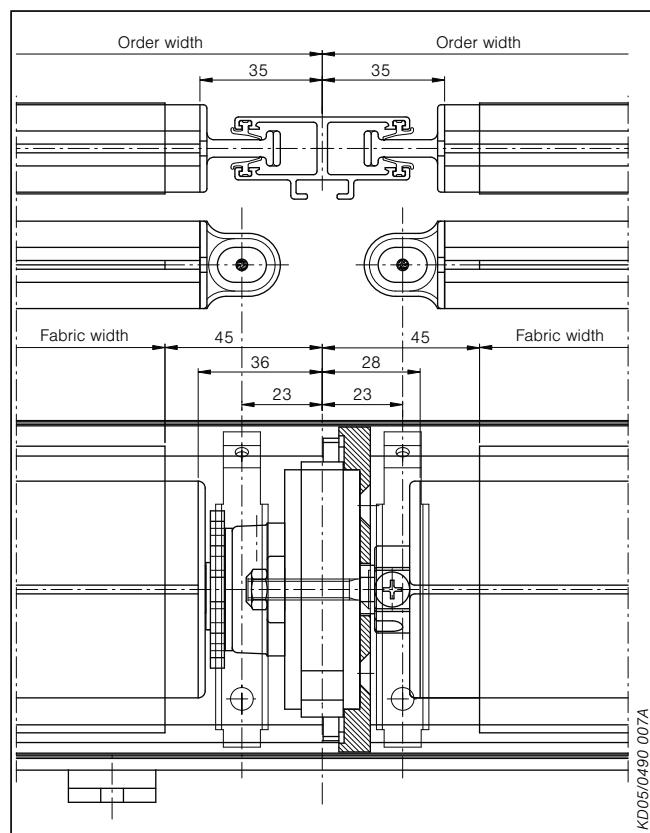


Fig. 63: Central gear - spindle lock

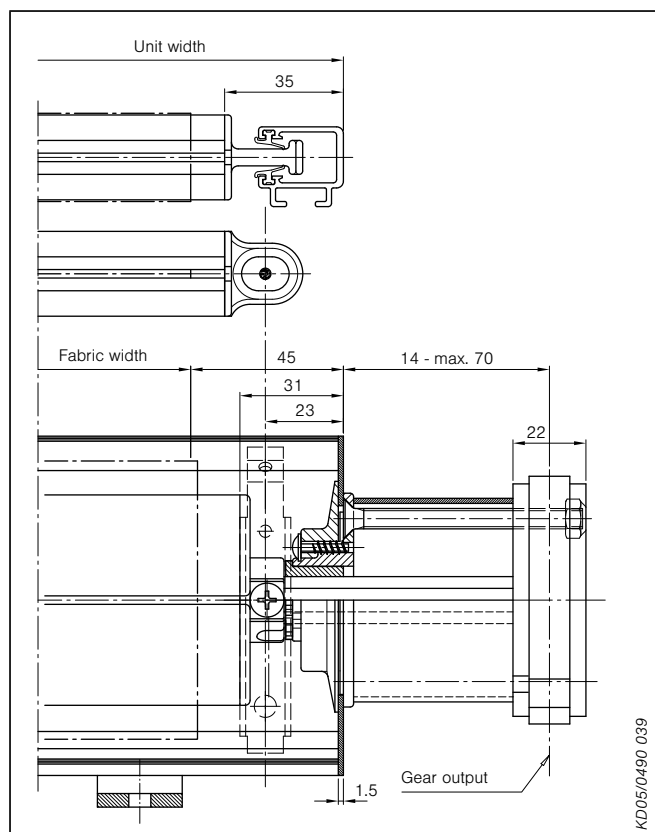


Fig. 64: External gear

Application example

Vertical awning 491 with guide rails Shaft mounting

Important!

This is a standardised installation situation!

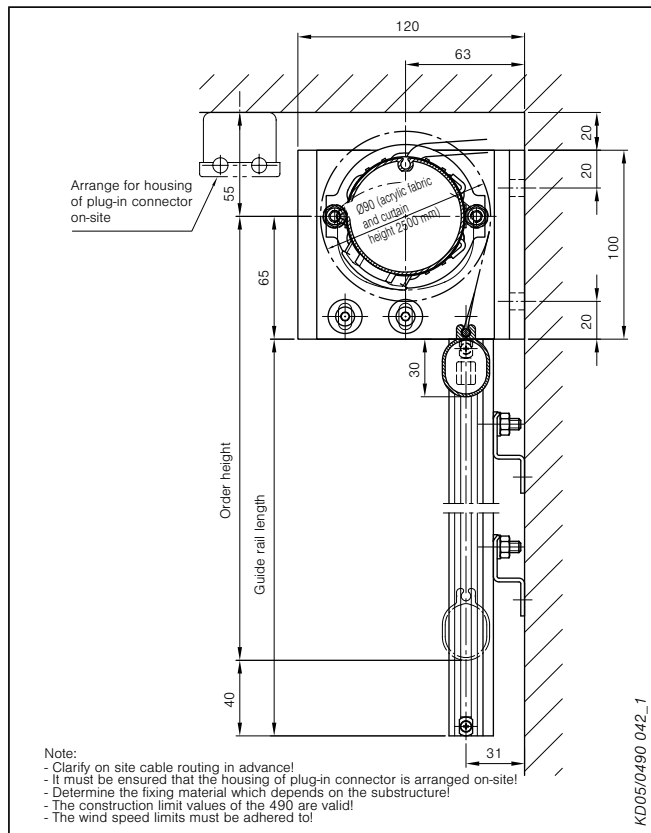


Fig. 65: Vertical awning 491 with motor, left rolling with guide rails and wall mounting

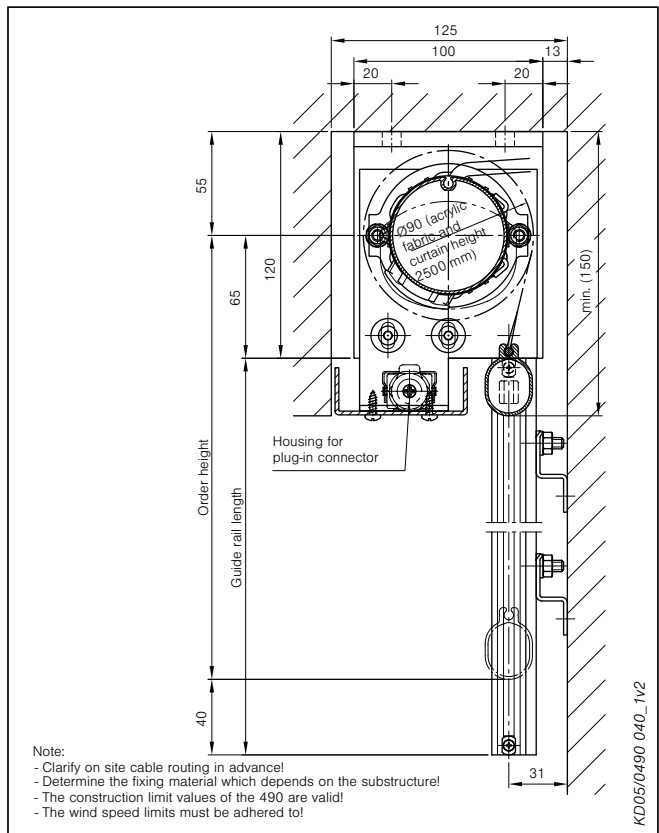


Fig. 66: Vertical awning 491 with motor, left rolling with guide rails, ceiling mounting with inspection cover

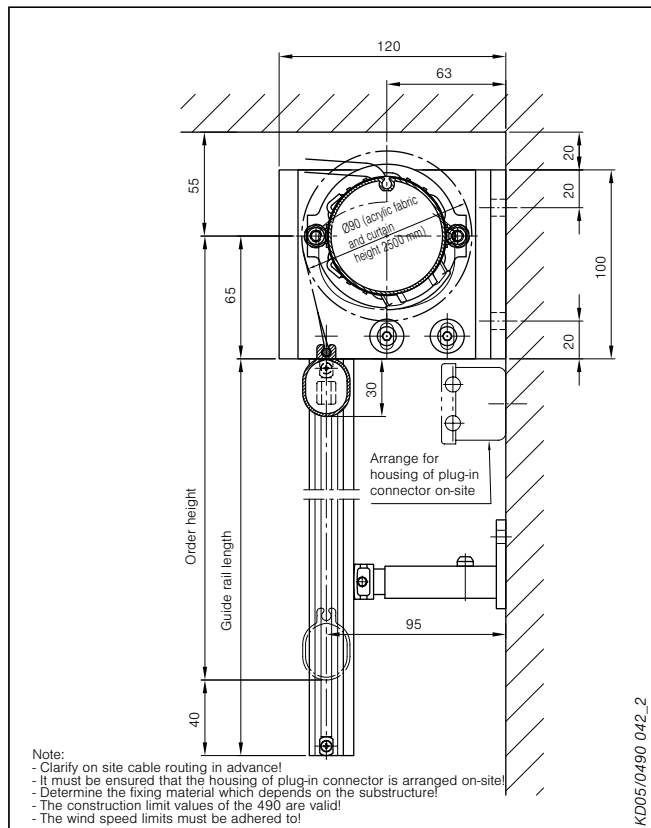


Fig. 67: Vertical awning 491 with motor, right rolling with guide rails and wall mounting

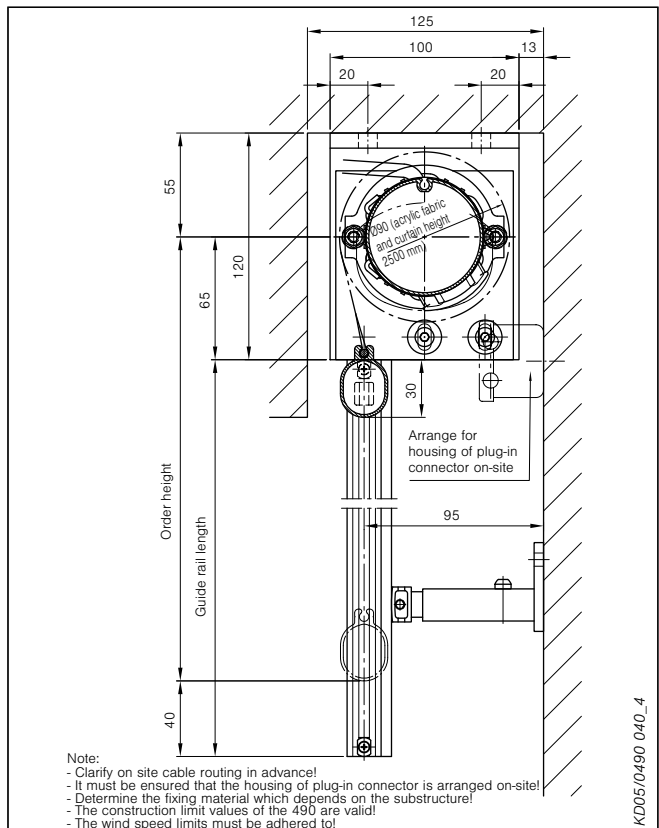


Fig. 68: Vertical awning 491 with motor, right rolling with guide rails and ceiling mounting

Application example

Vertical awning 491 with guide cables Shaft mounting

Important!

This is a standardised installation situation!

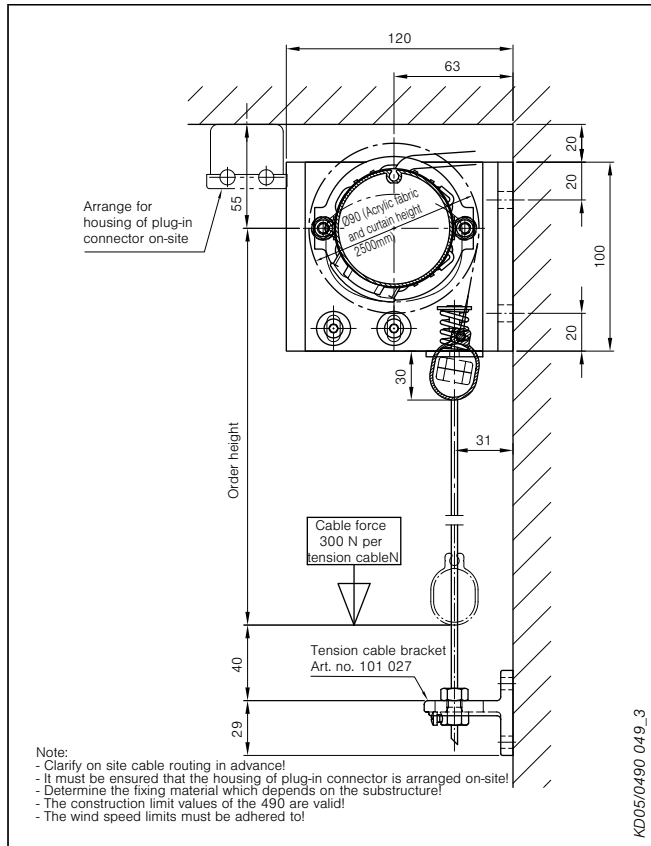


Fig. 69: Vertical awning 491 with motor, left rolling with guide cables and wall mounting

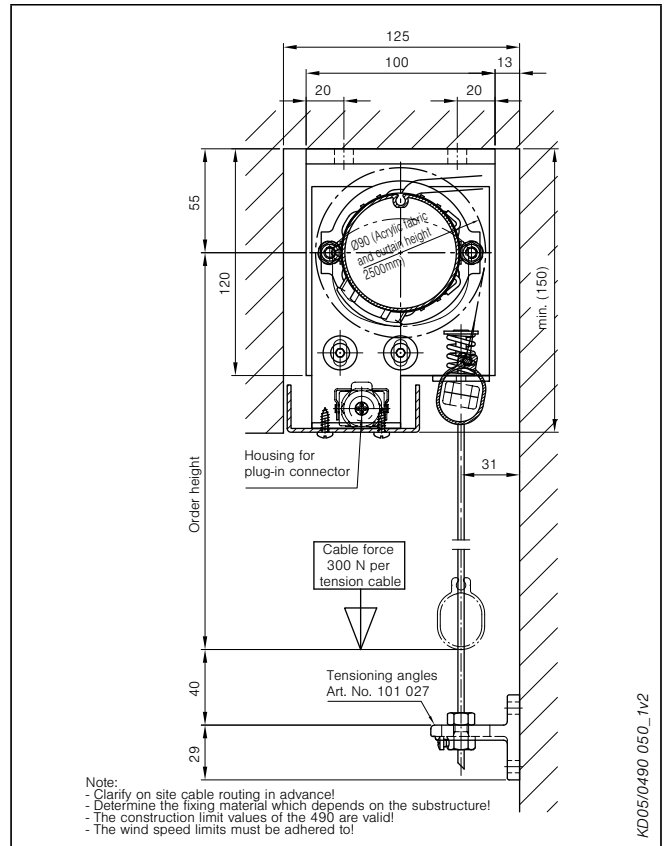


Fig. 70: Vertical awning 491 with motor, left rolling with guide cables, ceiling mounting with inspection cover

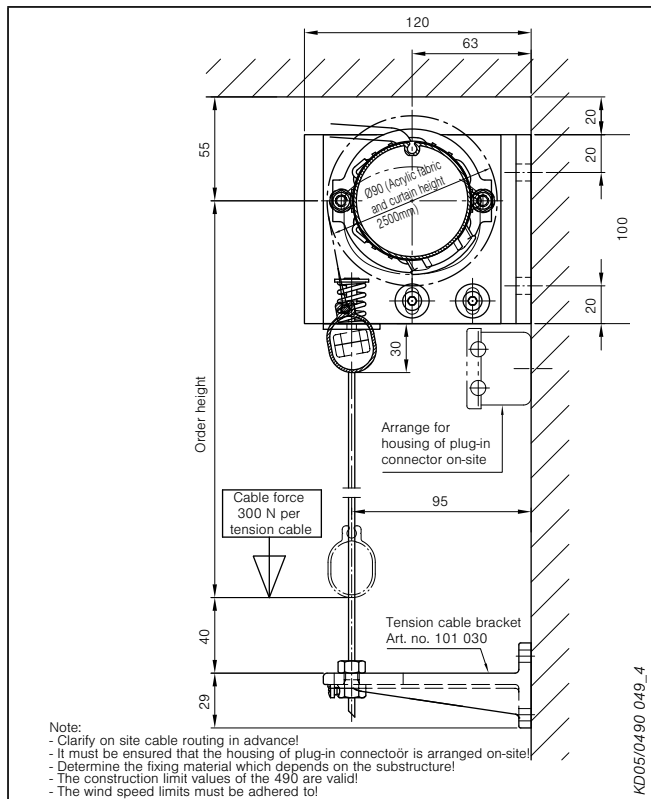


Fig. 71: Vertical awning 491 with motor, right rolling with guide cables and wall mounting

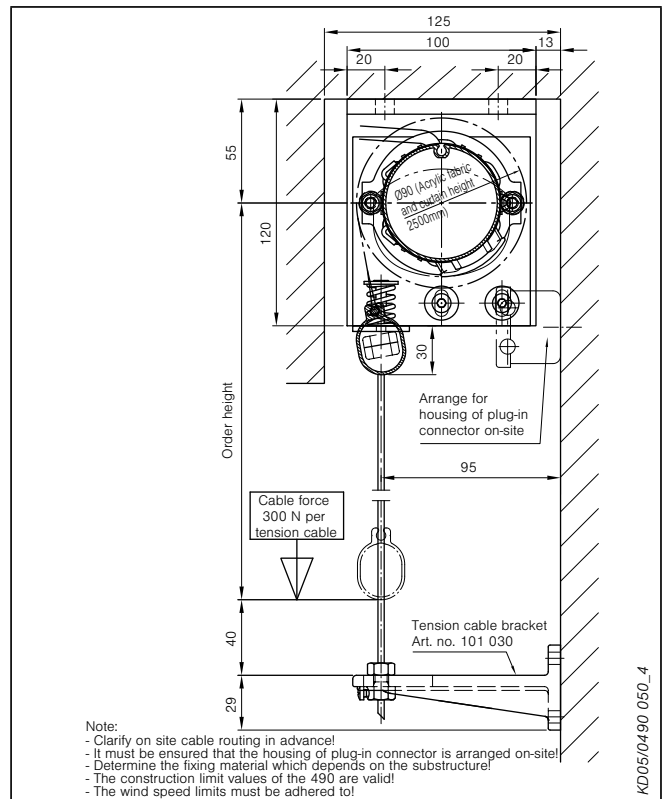


Fig. 72: Vertical awning 491 with motor, right rolling with guide cables and ceiling mounting

Application example

Vertical awning 491 Shaft mounting

Important!

This is a standardised installation situation!

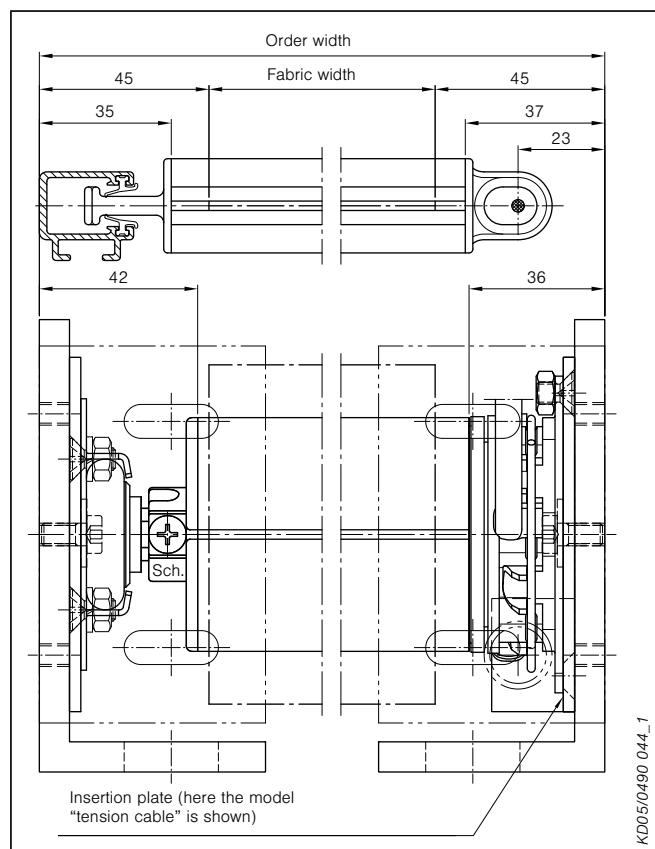


Fig. 73: Vertical awning 491 with motor, guide cables or rails, motor end bearing situation

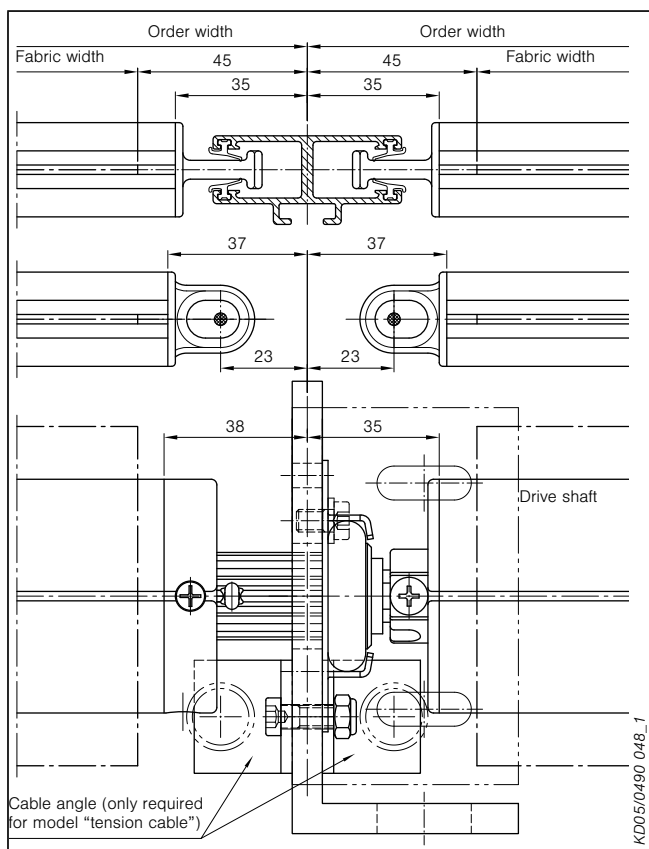


Fig. 74: Vertical awning 491, guide cables or rails, coupling situation

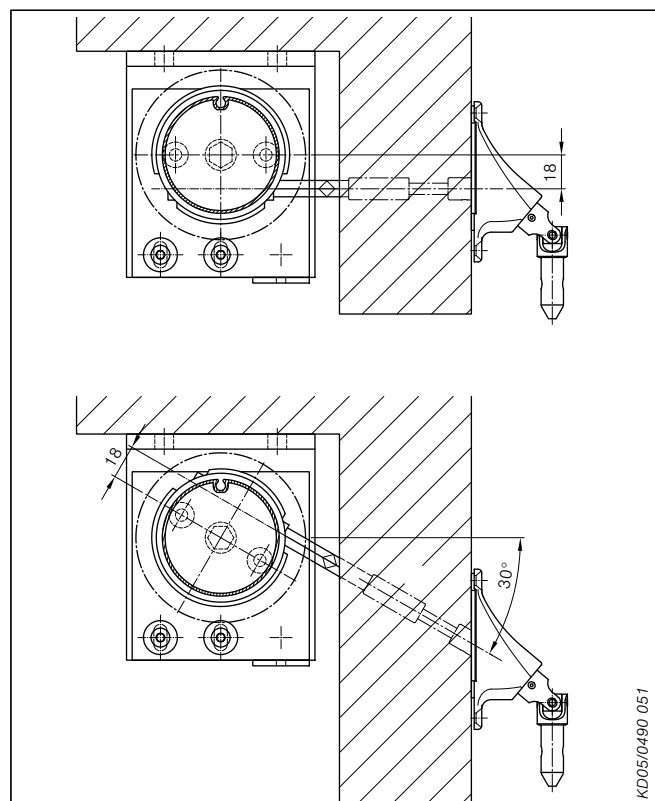


Fig. 75: Vertical awning 491 E, gear outlets

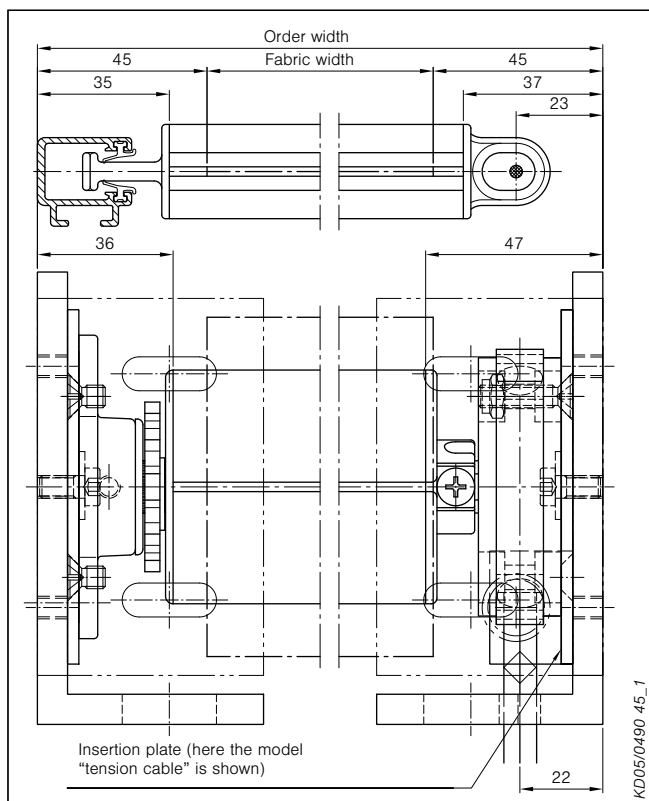


Fig. 76: Vertical awning 491, guide cables or rails, gear - spindle lock situation