Window awnings with ZIP guidance

Type V-FM

WAREMA front-mounted window awnings (V-FM) are ideal for direct mounting in reveals or on facades. They are also used as elements of facade design on new buildings. Whether rectangular or half-round – WAREMA front-mounted window awnings can be combined individually to suit any taste.

F-FM type

WAREMA self-supporting window awnings (F-FM) can be integrated into nearly any facade. Self-supporting window awnings are used for heat as well as glare control. The variety of fabric qualities and designs leaves room for any individual design ideas.
The awnings are generally fixed with the guide rails, requiring no additional fixing points for the cover panel.

Equipment

	Window awnings with ZIP guidance	
	V-FM	F-FM
Drive and operation		
– Motor incl. plug-in connector	●	●
– EWFS and/or WMS radio motor	o	o
– Crank	–	–
Mechanically coupled units	–	–
Cover panel		
– Aluminium, 90x90 mm, rectangular	●	●
– Aluminium, 110x110 mm, rectangular	●	●
– Aluminium, 110x110 mm, half-round	●	●
– Aluminium, 110x110 mm, round	●	●
– Aluminium, 130x130 mm, rectangular	●	●
– Aluminium, 130x130 mm, round	●	●
– Aluminium, 130x130 mm, plaster	●	–
– Aluminium, 150x150 mm, rectangular	●	●
Lateral guidance		
– ZIP guidance with guide rail	●	●
– ZIP guidance with deep guide rail[1)]	o	–

[1)] *Only available for size 11 and size 13 cover panel, rectangular*

	Window awnings with ZIP guidance	
	V-FM	F-FM
Mounting situation		
– with distance (distance mounting)	–	●
– without spacing (direct installation)	●	–
Surface treatment of aluminium parts		
– Powder-coated	according to the WAREMA Colour World	
– Special coating	o	o
– C0 anodised	o	o
– anodised in colour	o	o
Fabric[1)]		
– Standard/Lumera acrylic fabric[2)]	●	●
– Acrylic All Weather/Perfora[2)]	o	o
– Screen fabric	o	o
– Soltis 92 fabric	o	o

[1)] *Please note the processing information about fabrics on page ff. 273*
[2)] *used crosswise, stripe designs used lengthwise*

● *standard*
o *optional*
– *not available*

Window awnings with ZIP guidance
Size 9 cover panel (90x90 mm)

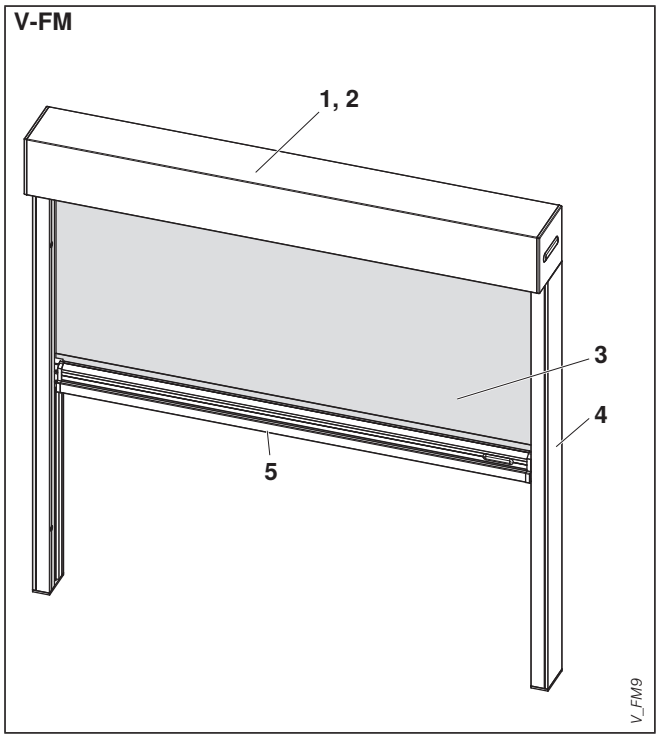


fig. 1: Window awning with ZIP guidance V-FM

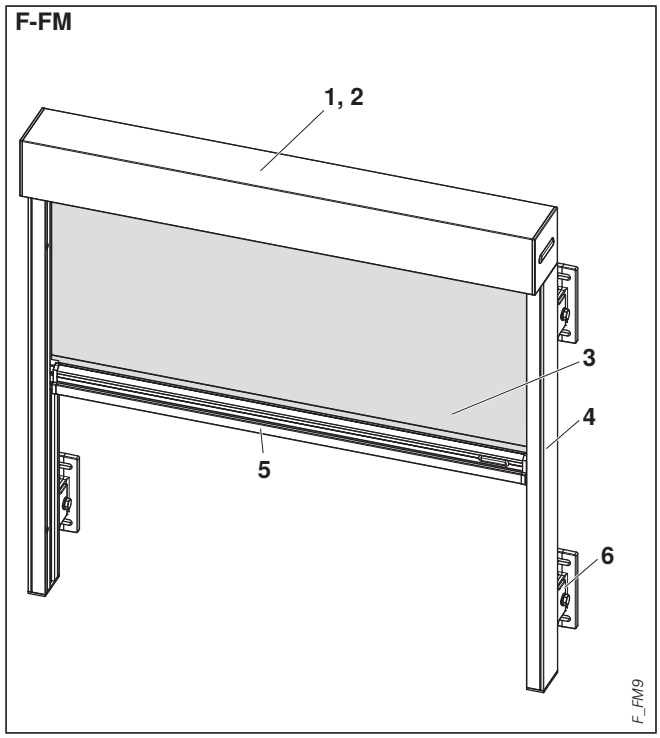


fig. 2: Window awning with ZIP guidance F-FM

1 **Cover panel (rectangular)**
2 **Fabric shaft**
3 **Fabric**
4 **Lateral guidance**
5 **Drop profile**
6 **Guide rail bracket (only type F-FM)**

Application

Textile external sun shading system with particularly small cover panel size for shading vertical punched or element windows as well as for direct mounting in the reveal (type V-FM). Mounting with distance e.g. for mullion and transom facades (type F-FM).

Operation

Basic motor, 230 V, 50 Hz
ZM REA with electronic limit switch-off (optionally with EWFS/WMS radio plug receiver)
WMS radio motor, 230 V, 50 Hz (optionally)
WMS-ZP with electronic limit switch-off
More information about drives from page 278.

Cover panel (1)

With inspection cover, left rolling blind

Material:	aluminium, extruded
Material thickness:	1.8 mm
Dimensions HxD:	90x90 mm
Surface:	powder-coated, optionally anodised
Fixing:	clipped on using consoles on the guide rails
Side covers:	aluminium, powder-coated
Shapes:	rectangular

Attention: Inspection towards bottom is not possible. In order to inspect the fabric shaft, the unit has to be dismantled. No cover panel protrusions and mitres possible.

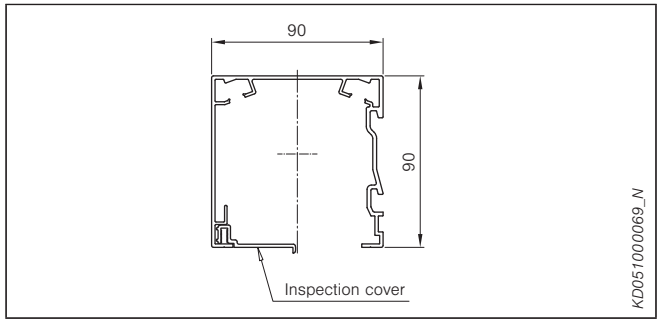


fig. 3: Cover panel

Fabric shaft (2)

Material:	aluminium, extruded
Material thickness:	1.6 mm
Dimensions (Ø):	62.2 mm
Profile:	groove tube
Surface:	plain

With piping groove for fixing the fabric.

Window awnings with ZIP guidance
Size 9 cover panel (90x90 mm)

Fabric (3)

Fabric qualities:	Standard/Lumera acrylic fabric Acrylic Perfora/All Weather Soltis 92 fabric Screen fabric More information about the fabrics on page 273
Designs:	according to current WAREMA collection

Special fabrics not included in our current collection are only available upon request and at a surcharge. Acrylic fabrics are generally used crosswise. Exception: when using striped designs the fabrics are used vertically. For further information see page 273.

Lateral guidance (4)

Rail with ZIP guidance

Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain and for damping

Material:	aluminium, extruded
Dimensions (WxH):	25x56 mm
Profile:	C-shaped profile
Surface:	powder-coated, optionally anodised
Fixing:	directly on the facade or in the reveal (type V-FM) Guide rail bracket (type F-FM)
End closure:	plastic, black
Inlay:	co-extruded PVC profile

Drop profile (5)

Material:	aluminium, extruded
Material thickness:	1.5 mm
Dimensions (WxH):	medium, 35x42 mm large, 35 x 49 mm
Profile:	rectangular, internal beading channel
Surface:	powder-coated, optionally anodised
End plug:	plastic, black

The drop profile is generally visible. The drop profile can optionally be fitted with a brush seal.

Fixing and connecting parts

Within the awning

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 six DB colours as well as eight textured colours (W4914 – W4921), four anodised-look colours (WC31 – WC34) and further colours according to the WAREMA Colour World (in WAREMA colour specification).
Other colour specifications, special colours and anodisation are available on request at a surcharge.
All visible plastic parts are black.

Window awnings with ZIP guidance
Size 9 cover panel (90x90 mm)

Weight tables

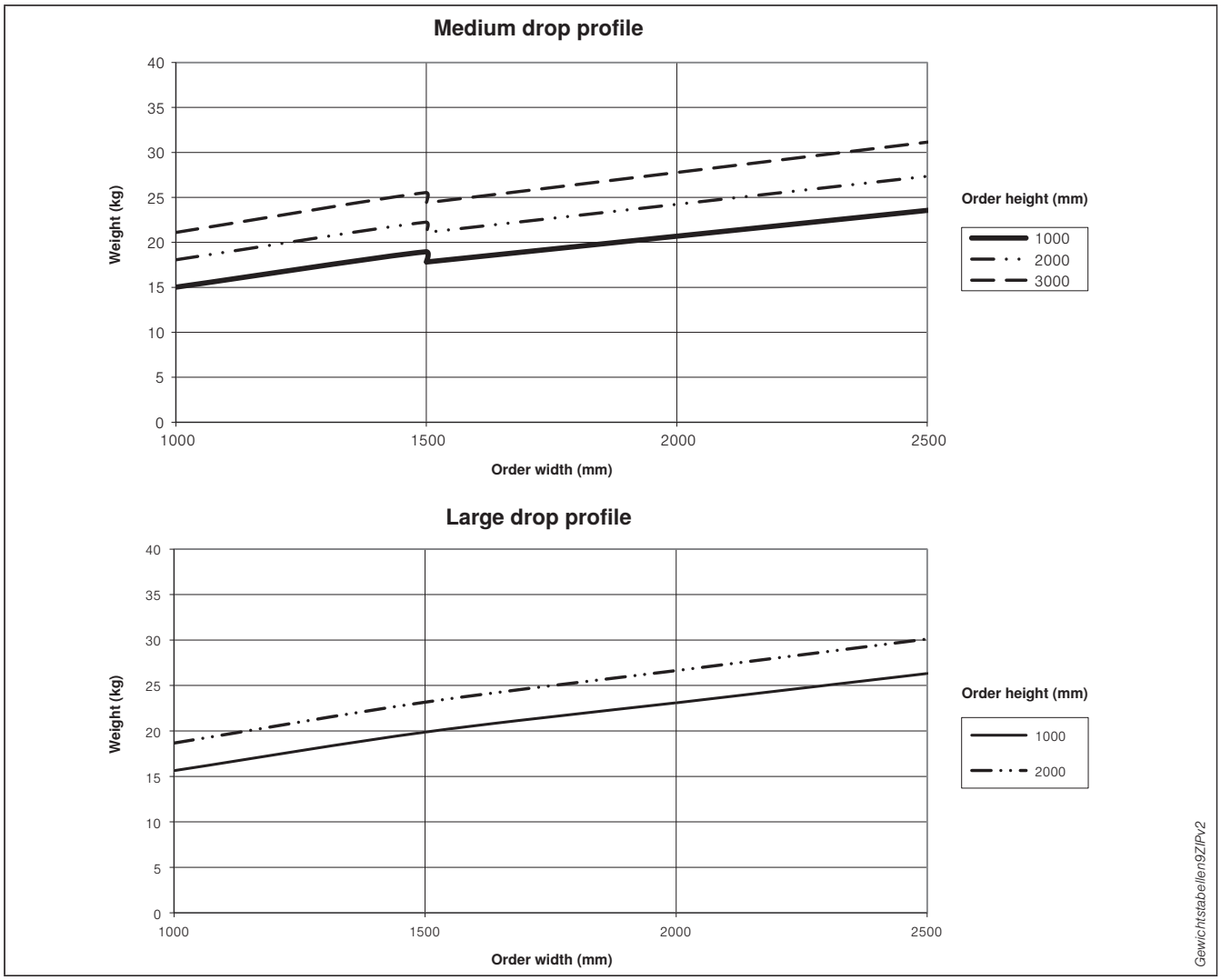


fig. 4: Weight tables

Window awnings with ZIP guidance
Size 9 cover panel (90x90 mm)

Type V-FM and F-FM (size 9 cover panel, rectangular)

Construction limit values in mm

	Type of fabric	Individual unit
		Motor[1)]
Min. width	Acrylic fabric – all qualities (used crosswise)	750
	Screen fabric	750
	Soltis 92 fabric	750
Max. width	Acrylic fabric – all qualities (used crosswise)	2500
	Screen fabric	2500
	Soltis 92 fabric	2500
Min. height	Acrylic fabric – all qualities (used crosswise)	650
	Screen fabric	650
	Soltis 92 fabric	650
Max. height[2)]	Acrylic fabric – all qualities (used crosswise)	2000[2)]
	Screen fabric	2000
	Soltis 92 fabric	2000
Max. area (m^2)	Acrylic fabric – all qualities (used crosswise)	5
	Screen fabric	5
	Soltis 92 fabric	5

Attention:
- Only individual units with motor drive available!
- For the stated construction limit values all acrylic fabrics are used crosswise, more information on page 273.
- Radio motor not possible!

[1)] *only available with motor drive,* **no** *crank drive*
[2)] *Acrylic fabric – used vertically (stripe designs) – up to max. 1400 mm height*

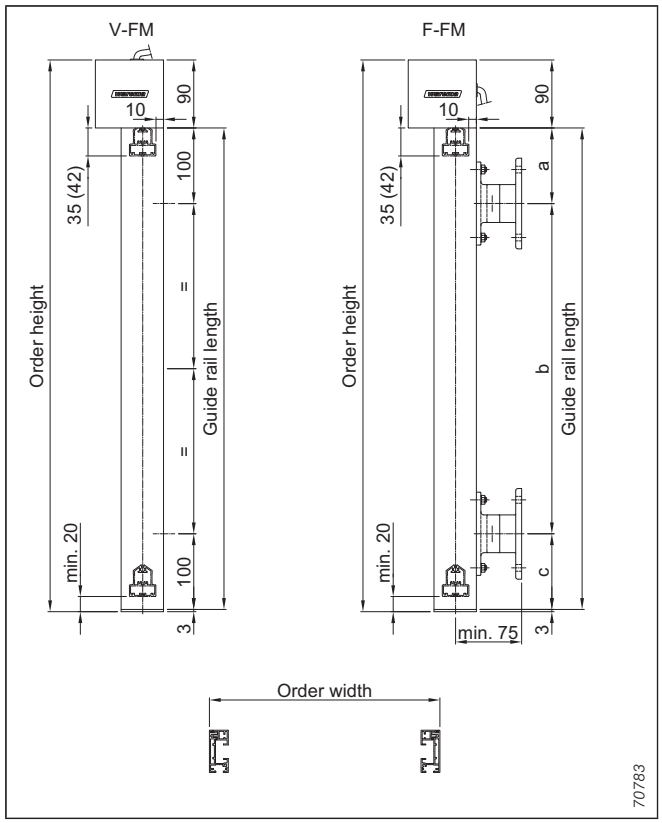


fig. 5: Measuring instructions

Number of drilled holes for direct installation type V-FM

Guide rail length	Fixing holes
–900	2
901–1600	3
1601–1910	4

Spacing and number of brackets for distance installation, type F-FM

Type	Rail type	Bracket spacing in mm					No. of brackets for guide rail length in mm
		a		b	c		
		min.	max.	max.	min.	max.	2 to
Size 9	C 25/56	100	200	2000	70	300	1900

Notes

Window awnings with ZIP guidance
Direct installation, rectangular cover panel size 9
Drop profile 35x42

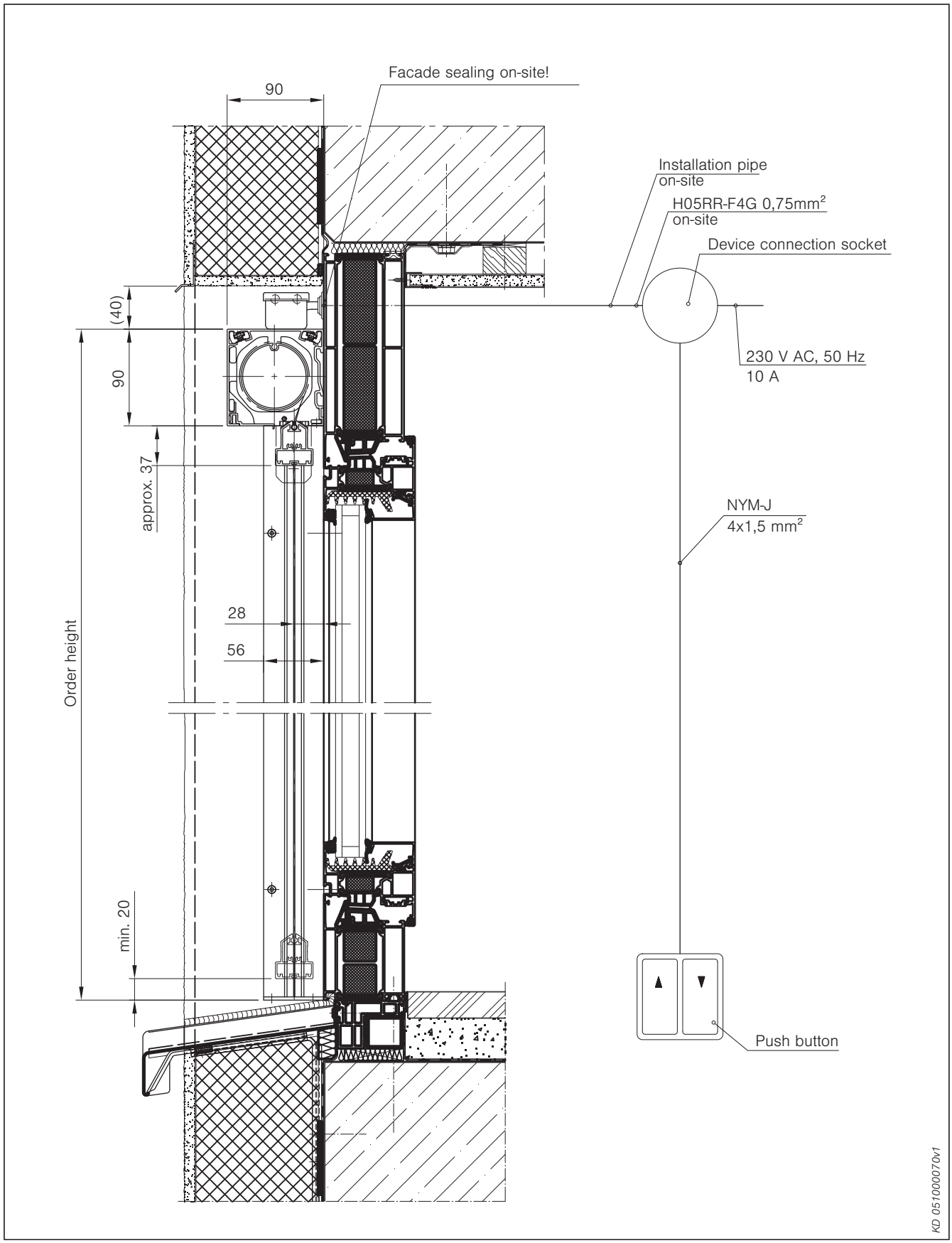


fig. 6: Window awning with ZIP guidance with rectangular size 9 cover panel

Window awnings with ZIP guidance
Direct installation, rectangular cover panel size 9
Drop profile 35x42

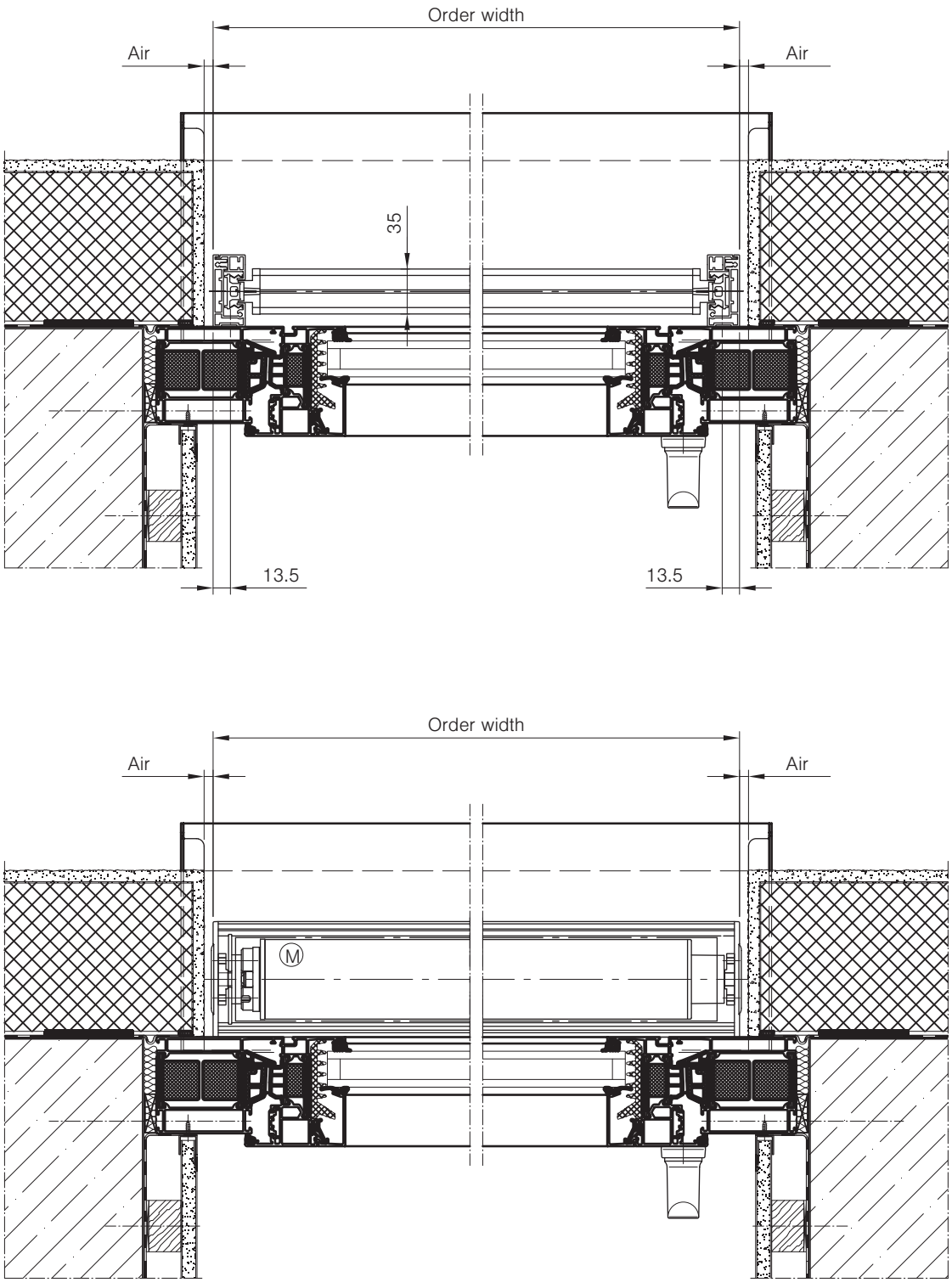


fig. 7: Window awning with ZIP guidance with rectangular size 9 cover panel

Window awnings with ZIP guidance
Size 11 cover panel (110x110 mm)

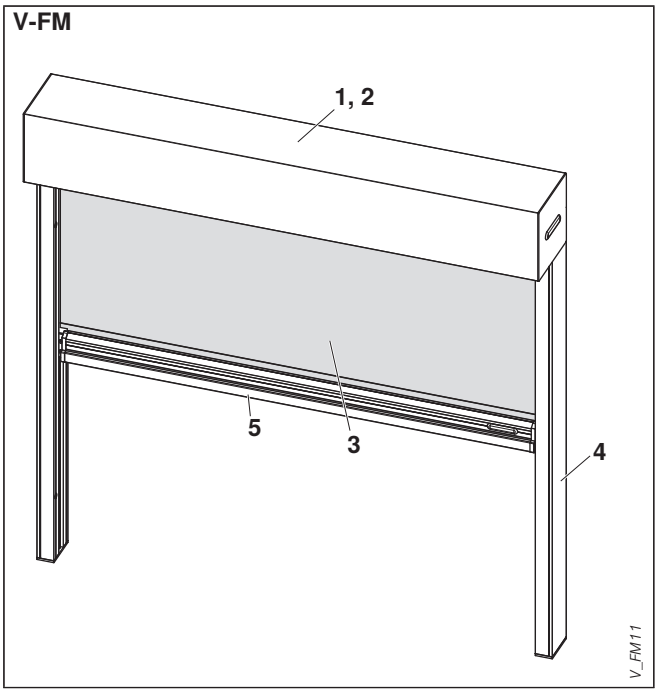


fig. 8: Window awning with ZIP guidance V-FM

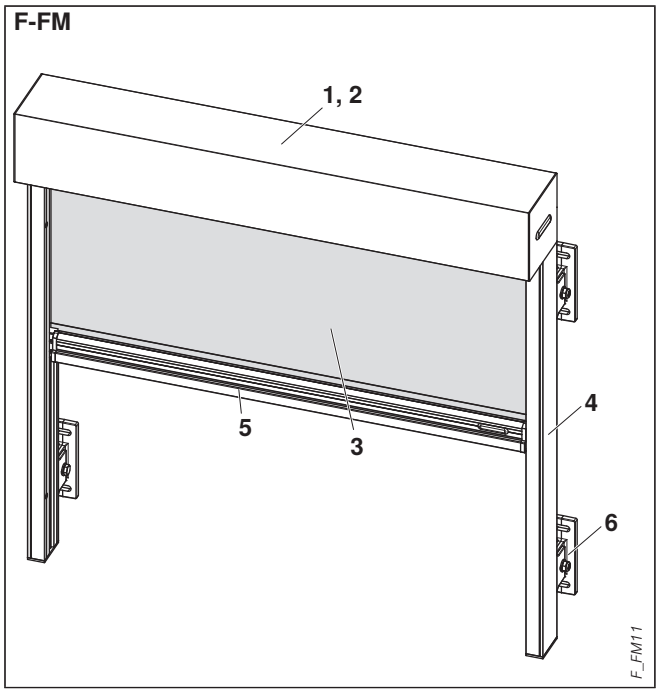


fig. 9: Window awning with ZIP guidance F-FM

1 Cover panel (rectangular and half-round)
2 Fabric shaft
3 Fabric
4 Lateral guidance
5 Drop profile
6 Guide rail bracket (only type F-FM)

Application

Textile external sun shading system with small cover panel size for shading vertical punched or element windows as well as for direct mounting in the reveal (type V-FM). Mounting with distance e.g. for mullion and transom facades (type F-FM).

Operation

Basis motor, 230 V, 50 Hz
ZM REA with electronic limit switch-off (optionally with EWFS/WMS radio plug receiver)
EWFS radio motor, 230 V, 50 Hz (optionally)
W-ZM with electronic limit switch-off
WMS radio motor, 230 V, 50 Hz (optionally)
WMS-ZM with electronic limit switch-off
More information about drives from page 278.

Cover panel (1)

With inspection cover, available for left and right rolling blinds

Material:	aluminium, extruded
Material thickness:	1.7 mm
Dimensions HxD:	110x110 mm
Surface:	powder-coated, optionally anodised
Fixing:	clipped on using consoles on the guide rails
Side covers:	aluminium, powder-coated
Shapes:	rectangular, half-round or round

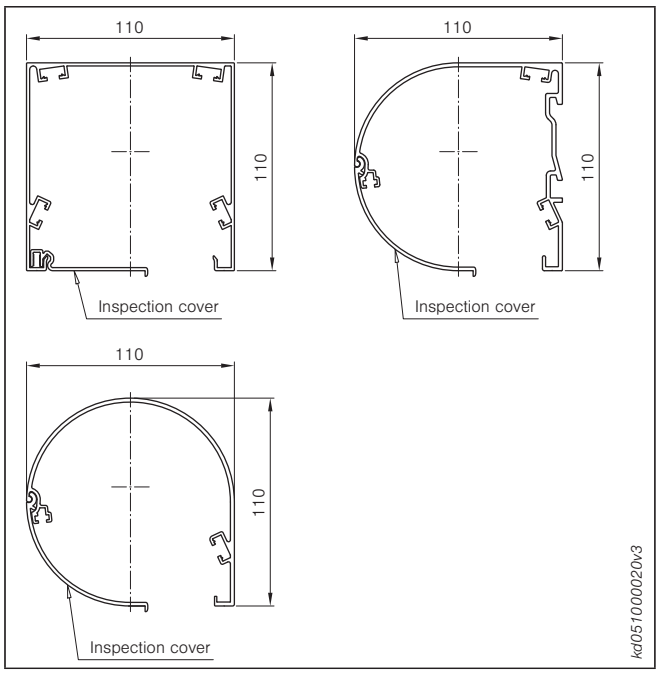


fig. 10: Cover panel

Window awnings with ZIP guidance
Size 11 cover panel (110x110 mm)

Fabric shaft (2)[1)]

Material: aluminium, extruded/steel, galvanised
Material thickness: 1.6 mm/1.8 mm/1 mm
Dimensions (Ø): 62.2 mm/70 mm/61 mm
Profile: groove tube
Surface: plain
With piping groove for fixing the fabric. The fabric shaft size depends on the used fabric quality in relation to the relevant sizes.

Fabric (3)

Fabric qualities: Standard/Lumera acrylic fabric
Acrylic Perfora/All Weather
Soltis 92 fabric
Screen fabric
More information about the fabrics on page 273
Designs: according to current WAREMA collection
Special fabrics not included in our current collection are only available upon request and at a surcharge. Acrylic fabrics are generally used crosswise. Exception: when using striped designs the fabrics are used vertically. For further information see page 273.

Lateral guide (4)

Rail with ZIP guidance
Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain and for damping
Material: aluminium, extruded
Dimensions (WxH): 25x56 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal (type V-FM)
Guide rail brackets (for left or right rolling blind) (type F-FM)
End closure: plastic, black
Inlay: co-extruded PVC profile

Deep guide rail, size 11 cover panel
Deep guide rail with ZIP guidance for reveal covering. Lateral guidance via ZIP directly in two-piece deep guide rail with inlay for fabric guiding. The inspection part of the guide rail is provided with a joint for maintenance work.
Material: aluminium, extruded
Dimensions (WxH): 25x110 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal
End closure: aluminium, black
Inlay: co-extruded PVC profile

Wide guide rail with ZIP guidance
Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain.
Material: aluminium, extruded
Dimensions (WxH): 37x56 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal (type V-FM)
Guide rail bracket (type F-FM)
End closure: aluminium, black
Inlay: extruded PVC profile
Springs: spring steel

Drop profile (5)

Material: aluminium, extruded
Material thickness: 1.5 mm
Dimensions (WxH): medium, 35x42 mm
large, 35x49 mm
Profile: rectangular, internal beading channel
Surface: powder-coated, optionally anodised
End plug: plastic, black

The drop profile is generally visible. The drop profile can optionally be fitted with a brush seal.

Fixing and connecting parts

Within the awning
Material: A2 steel or aluminium

Colours

Powder coating of aluminium parts with chrome-free pretreatment according to valid RAL CLASSIC colour chart (except camouflage and luminous colours) or in six DB colours as well as eight textured colours (W4914 – W4921), four anodised-look colours (WC31 – WC34) and further colours according to WAREMA Colour World (in WAREMA colour specification).
Other colour specifications, special colours and anodisation are available on request at a surcharge.
All visible plastic parts are black.

[1)] *for Soltis 92 fabric an aluminium shaft with Ø70 mm is used, for widths over 2500 mm for Screen and Acrylic fabrics a steel shaft with Ø61 mm is used*

Window awnings with ZIP guidance
Size 11 cover panel (110x110 mm)

Weight tables

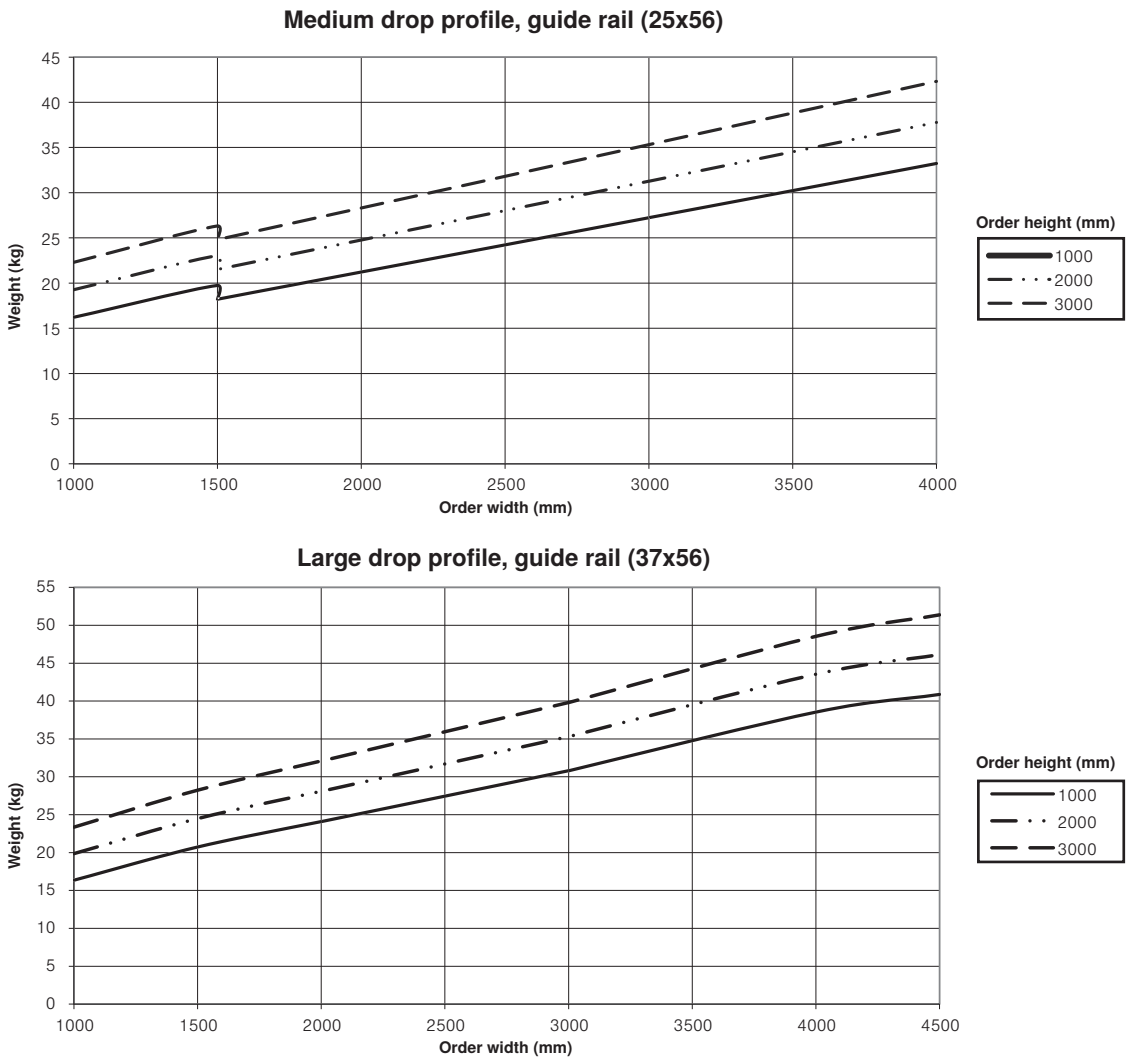


fig. 11: Weight tables

Window awnings with ZIP guidance
Size 11 cover panel (110x110 mm)

You can also use our free planning programme on www.sonnenschutzplaner.de for planning your sun shading control systems – here you can configure the product and create a technical drawing to be integrated into your plans.

Type V-FM and F-FM (size 11 cover panel, rectangular, half-round or round)

Construction limit values in mm

	Type of fabric	Individual unit
		Motor[1)]
Min. width	Acrylic – all qualities (used crosswise)	750
	Screen fabric	750
	Soltis 92 fabric	750
Max. width	Acrylic – all qualities (used crosswise)	3000
	Screen fabric	4500[2)]
	Soltis 92 fabric	3000
Min. height	Acrylic – all qualities (used crosswise)	650
	Screen fabric	650
	Soltis 92 fabric	650
Max. height[3)]	Acrylic – all qualities (used crosswise)	3000[3)]
	Screen fabric	3000
	Soltis 92 fabric	3000
Max. area (m^2)	Acrylic – all qualities (used crosswise)	9
	Screen fabric	10.35
	Soltis 92 fabric	9

Attention:
- Only individual units with motor drive available!
- For the stated construction limit values all acrylic fabrics are used crosswise, more information on page 273.

1) *only available with motor drive,* **no** *crank drive*
2) *Above 4001 mm only possible with wide guide rail and large drop profile*
3) *Acrylic fabric – used vertically (stripe designs) – up to max. 2000 mm height*

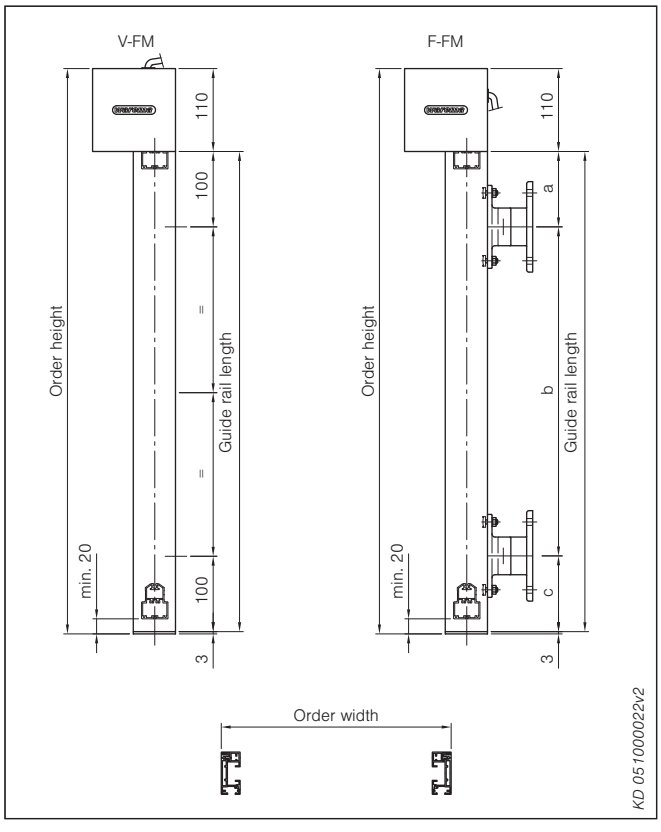


fig. 12: Measuring instructions

Number of drilled holes for direct installation type V-FM

Guide rail length	Fixing holes
–900	2
901–1600	3
1601–2300	4
2301–2900	5

Spacing and number of brackets for stand-off installation, type F-FM

Type	Rail type	Bracket spacing in mm					No. of brackets for guide rail length in mm	
		a		b	c		No. of brackets	
		min.	max.	max.	min.	max.	2 to	3 to
Size 11	C 25/56	100	200	2000	70	300	1900	2900

Window awnings with ZIP guidance V-FM
Direct installation, rectangular cover panel size 11
Drop profile 35 x 42

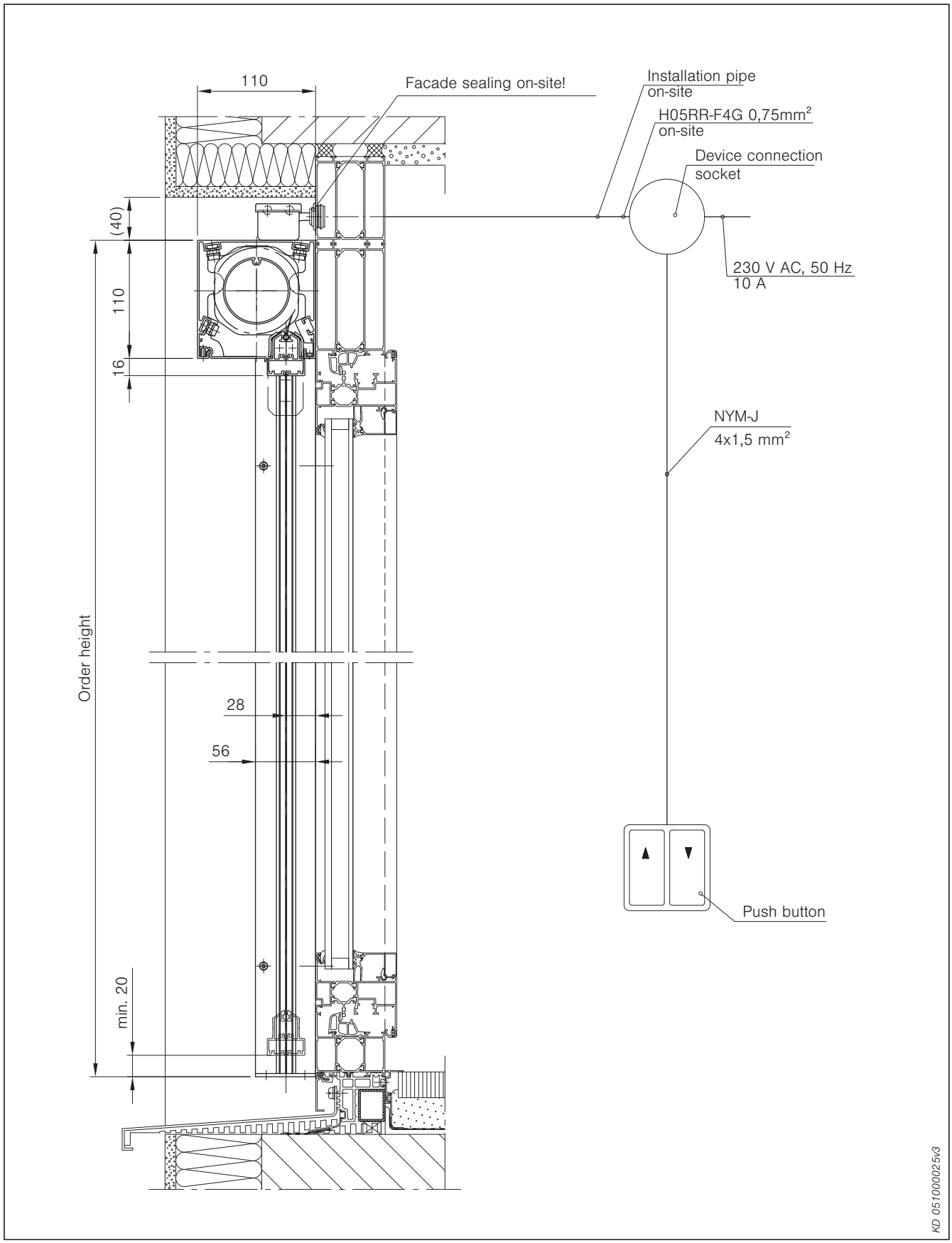


fig. 13: Window awning with ZIP guidance V-FM with rectangular cover panel size 11, direct installation, left rolling blind

Window awnings with ZIP guidance V-FM
Direct installation, rectangular cover panel size 11
Drop profile 35 x 42

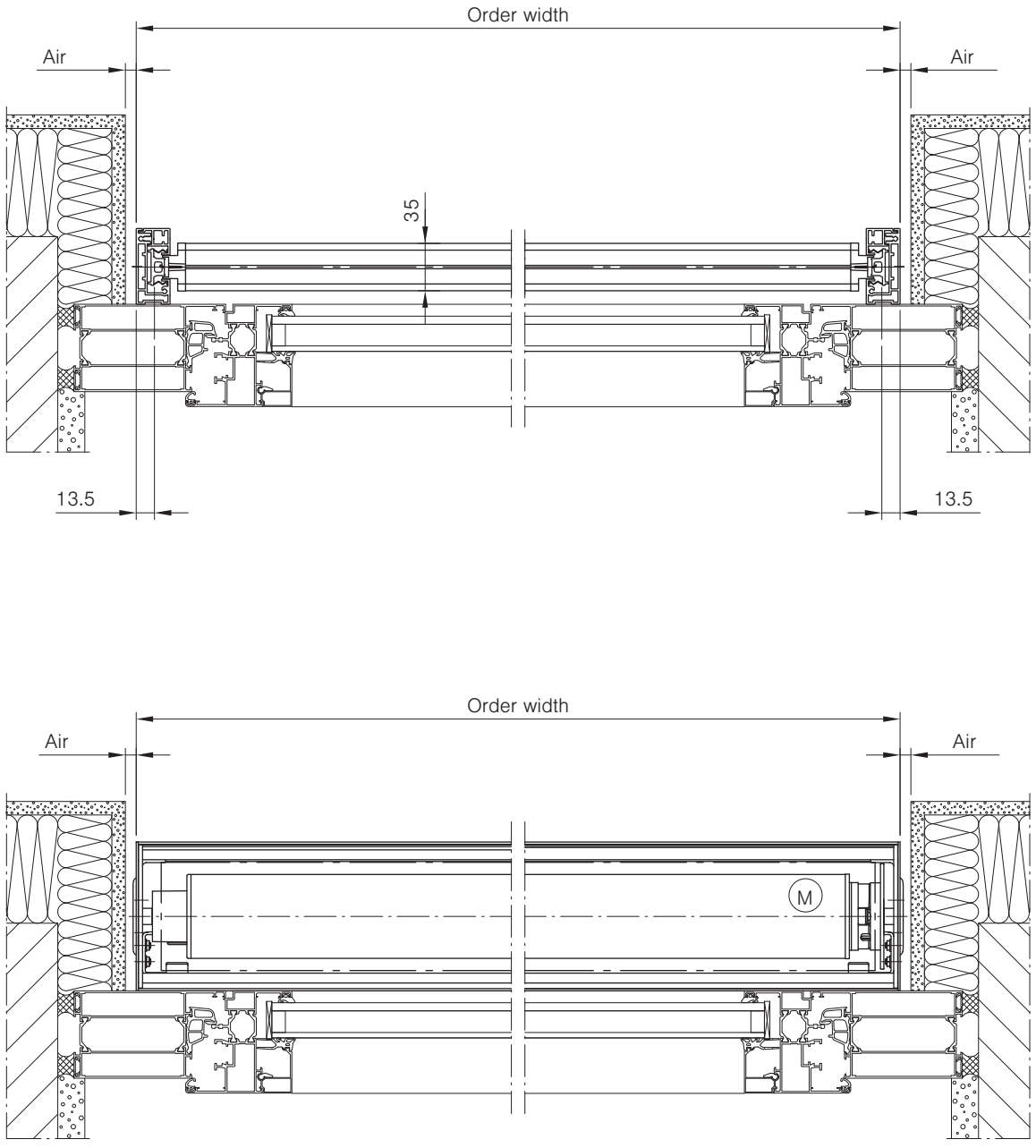


fig. 14: Window awning with ZIP guidance V-FM with rectangular cover panel size 11, direct installation, left rolling blind

Window awnings with ZIP guidance F-FM
Distance installation, rectangular cover panel size 11
Drop profile 35 x 49

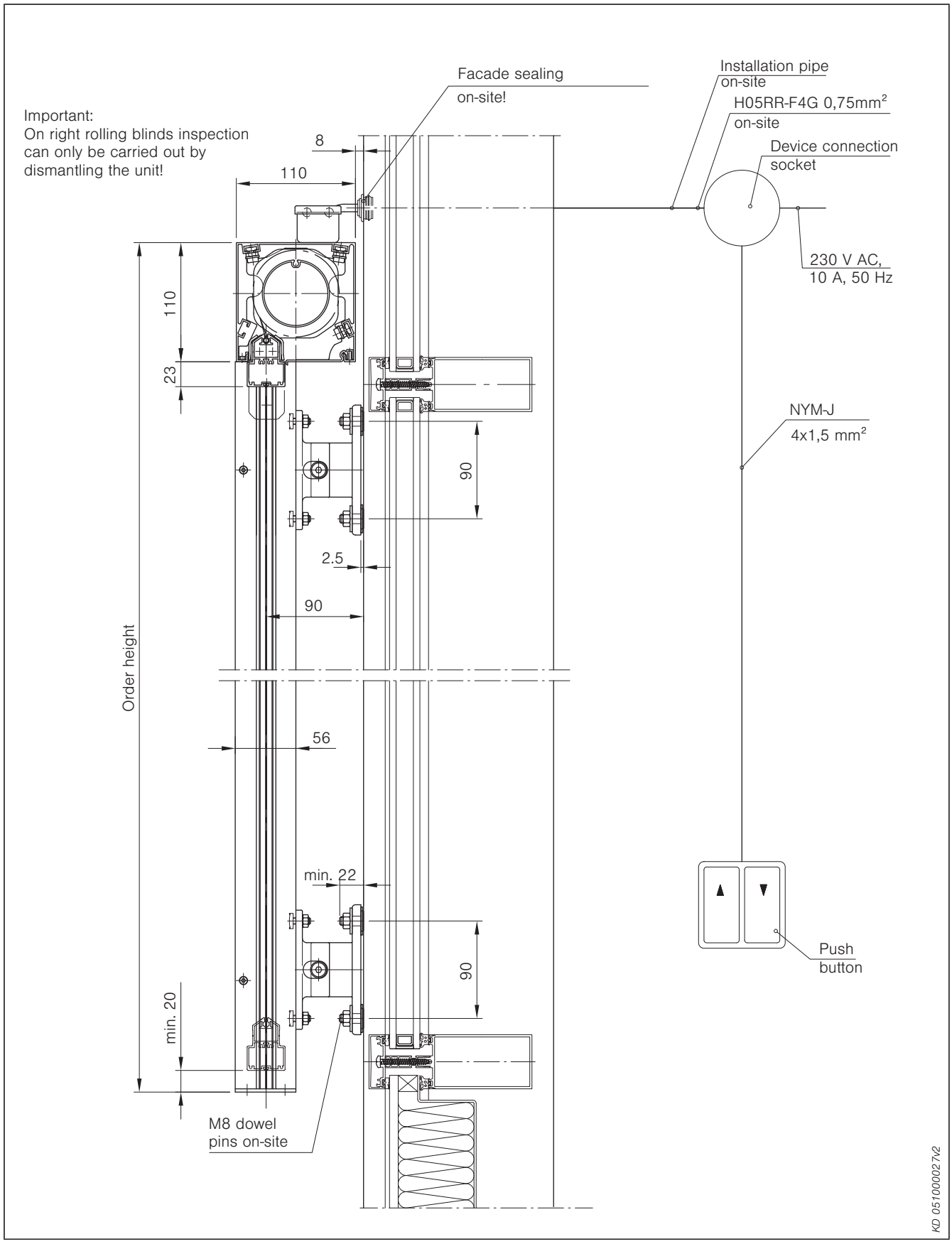


fig. 15: Window awning with ZIP guidance F-FM with rectangular cover panel size 11, distance installation, right rolling blind

Window awnings with ZIP guidance F-FM
Distance installation, rectangular cover panel size 11
Drop profile 35 x 49

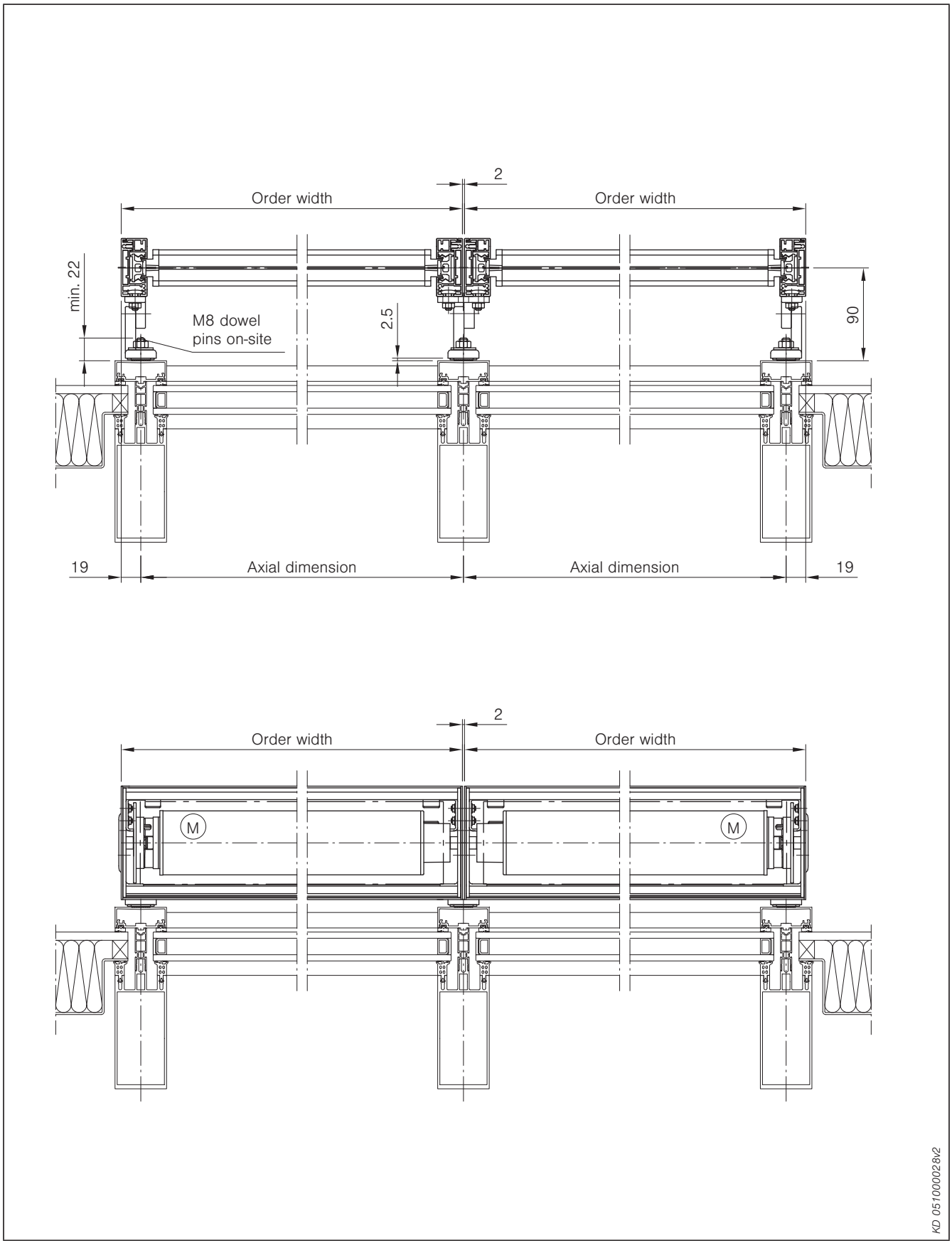


fig. 16: Window awning with ZIP guidance F-FM with rectangular cover panel size 11, distance installation, right rolling blind

Window awnings with ZIP guidance F-FM
Distance installation, half-round cover panel size 11
Drop profile 35 x 42

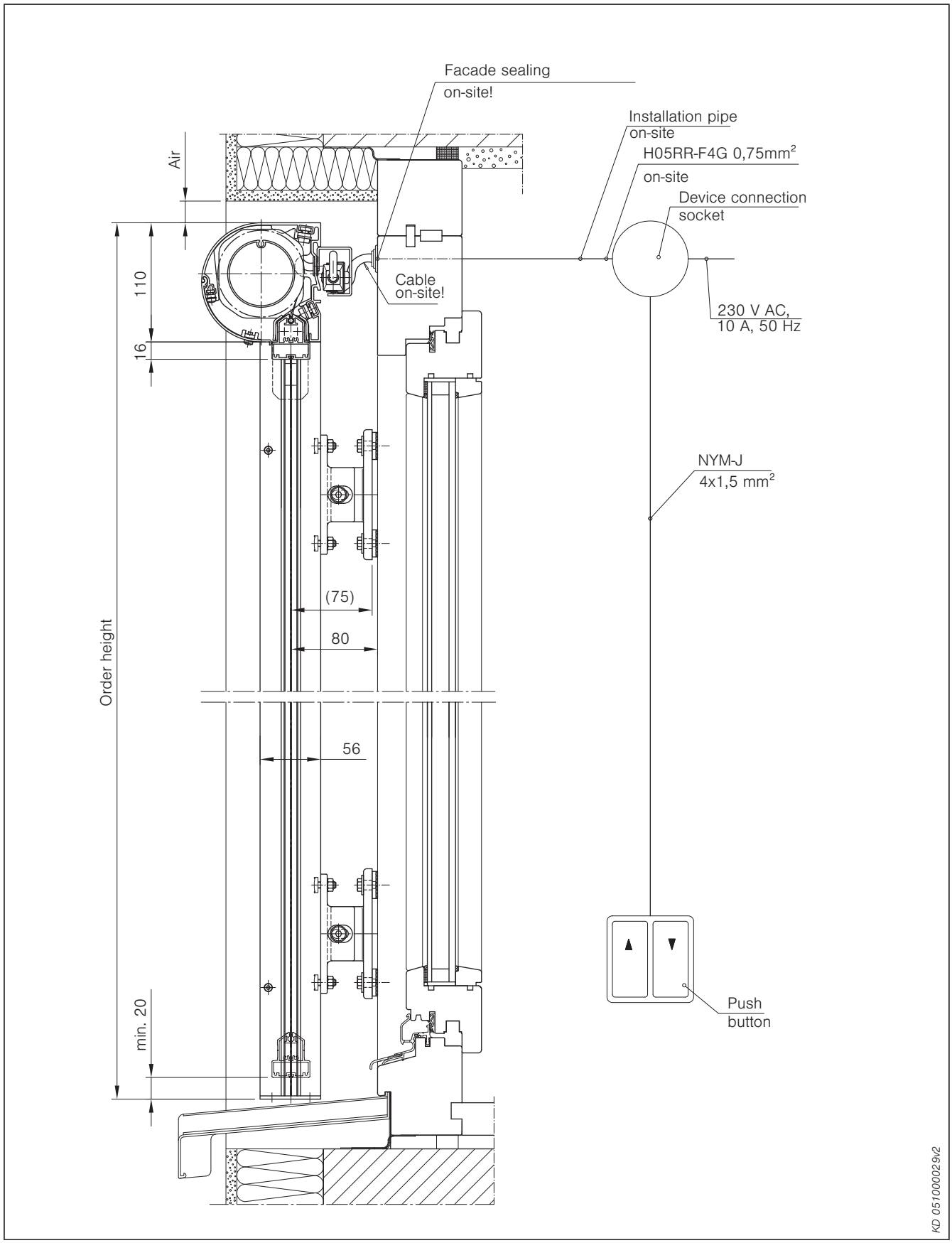


fig. 17: Window awning with ZIP guidance F-FM with half-round cover panel size 11, distance installation, left rolling blind

Window awnings with ZIP guidance F-FM
Distance installation, half-round cover panel size 11
Drop profile 35 x 42

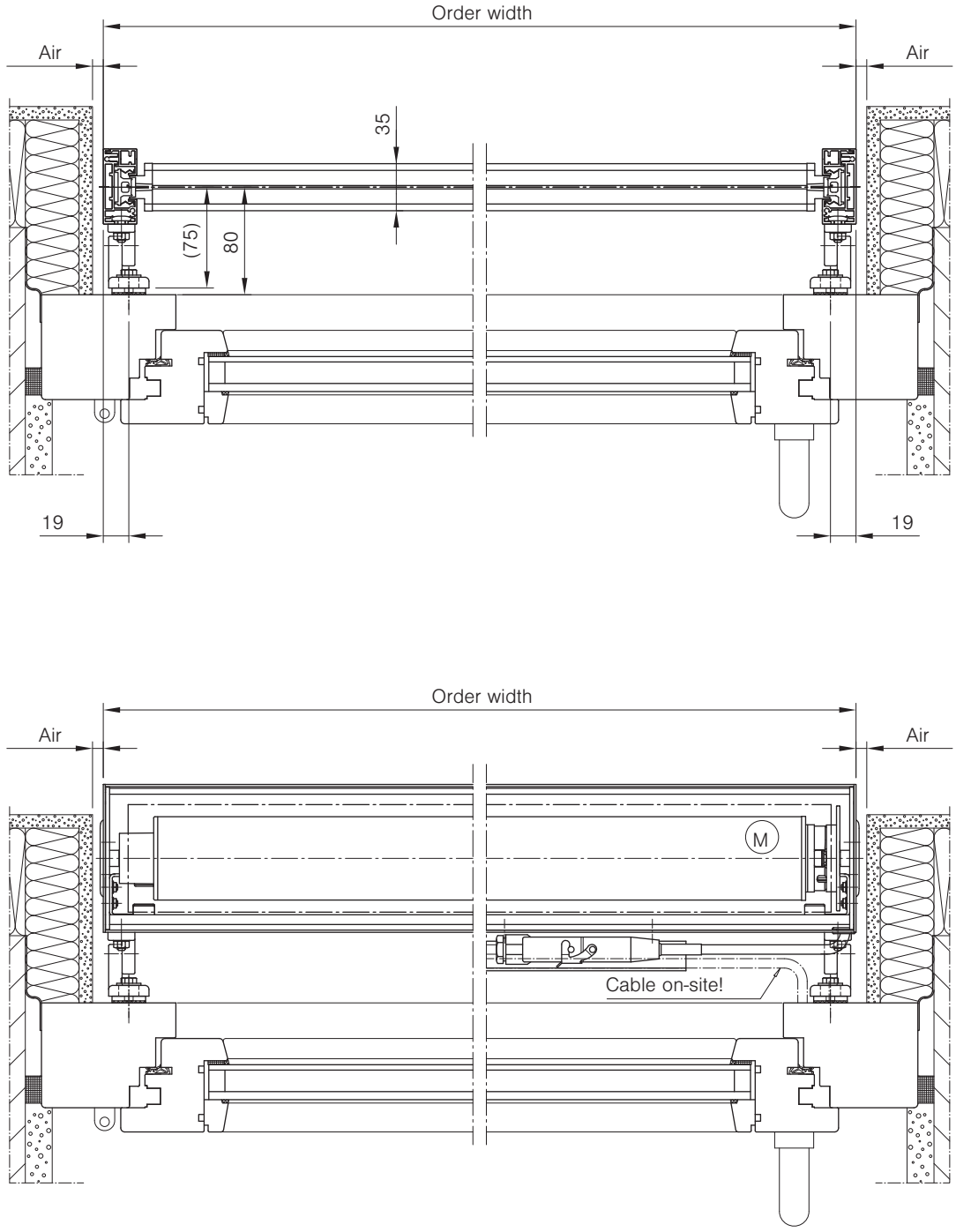


fig. 18: Window awning with ZIP guidance F-FM with half-round cover panel size 11, distance installation, left rolling blind

Window awnings with ZIP guidance
Size 13 cover panel (130x130 mm)

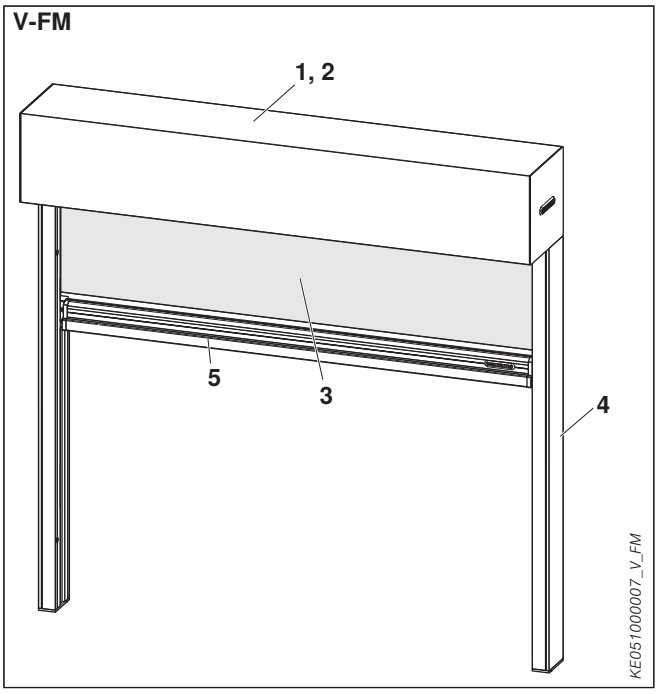


fig. 19: Window awning with ZIP guidance V-FM

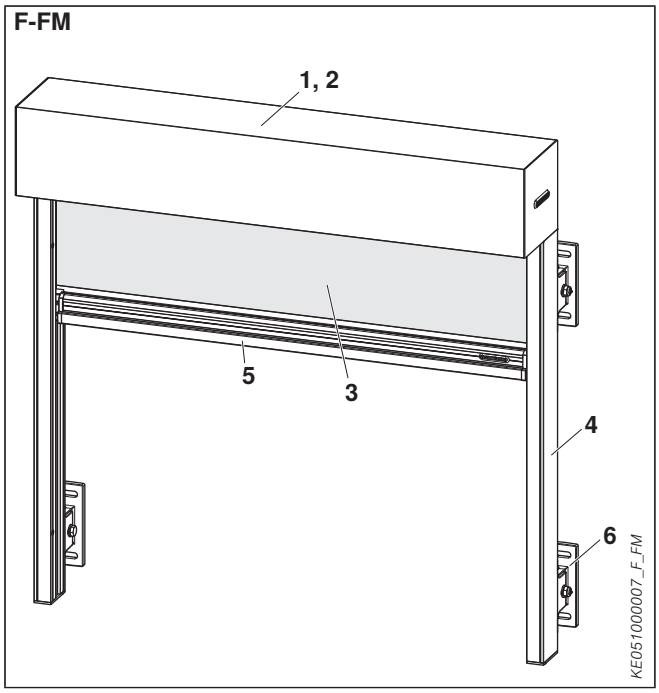


fig. 20: Window awning with ZIP guidance F-FM

1 **Cover panel size 13 (rectangular)**
2 **Fabric shaft**
3 **Fabric**
4 **Lateral guidance**
5 **Drop profile**
6 **Guide rail bracket (only type F-FM)**

Application

Textile external sun shading system for large area shading of vertical punched or element windows as well as for direct mounting in the reveal (type V-FM). Mounting with distance e.g. for mullion and transom facades (type F-FM).

Operation

Basic motor, 230 V, 50 Hz
ZM REA with electronic limit switch-off (optionally with EWFS/WMS radio plug receiver)
EWFS radio motor, 230 V, 50 Hz (optionally)
W-ZM with electronic limit switch-off
WMS radio motor, 230 V, 50 Hz (optional)
WMS-ZM with electronic limit switch-off
More information about drives from page 278.

Cover panel (1)

With revision cover, available as left and right rolling blinds

Material:	aluminium, extruded
Material thickness:	2 mm
Dimensions (HxD):	130x130 mm
Surface:	powder-coated, optionally anodised
Fixing:	clipped on using consoles on the guide rails
Side covers:	none
Shapes:	rectangular or round

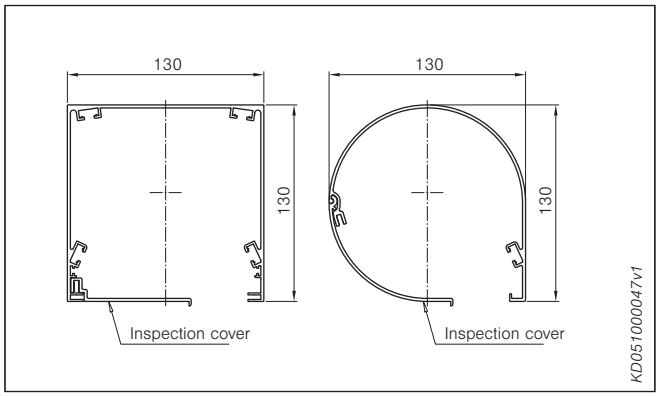


fig. 21: Cover panel

Fabric shaft (2)

Material:	steel, galvanised
Material thickness:	1 mm
Dimensions (Ø):	85 mm
Profile:	groove tube
Surface:	plain

With piping groove for fixing the fabric.

Window awnings with ZIP guidance
Size 13 cover panel (130x130 mm)

Fabric (3)

Fabric qualities: Standard/Lumera acrylic fabric
Acrylic Perfora/All Weather
Soltis 92 fabric
Screen fabric
More information about the fabrics on page 273

Designs: according to current WAREMA collection

Special fabrics not included in our current collection are only available upon request and at a surcharge. Acrylic fabrics are generally used crosswise. Exception: when using striped designs the fabrics are used vertically. For further information see page 273.

Lateral guidance (4)

Rail with ZIP guidance

Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain and for damping

Material: aluminium, extruded
Dimensions (WxH): 25x56 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal (type V-FM)
Guide rail brackets (for left or right rolling blind) (type F-FM)
End closure: plastic, black
Inlay: co-extruded PVC profile

Deep guide rail, size 13 cover panel

Deep guide rail with ZIP guidance for reveal covering. Lateral guidance via ZIP directly in two-piece deep guide rail with inlay for fabric guiding. The inspection part of the guide rail is provided with a joint for maintenance work.

Material: aluminium, extruded
Dimensions: 25x130 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal
End closure: aluminium, black
Inlay: co-extruded PVC profile

Wide guide rail with ZIP guidance

Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain.

Material: aluminium, extruded
Dimensions (WxH): 37x56 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal (type V-FM)
Guide rail bracket (type F-FM)
End closure: aluminium, black
Inlay: extruded PVC profile
Springs: spring steel

Drop profile (5)

Material: aluminium, extruded
Material thickness: 1.5 mm
Dimensions (WxH): medium, 35x42 mm
large, 35x49 mm
Profile: rectangular, internal beading channel
Surface: powder-coated, optionally anodised
End plug: plastic, black

The drop profile is generally visible. The drop profile can optionally be fitted with a brush seal.

Fixing and connecting parts

Within the awning
Material: A2 steel or aluminium

Colours

Powder coating of aluminium parts with chrome-free pretreatment according to valid RAL CLASSIC colour chart (except camouflage and luminous colours) or in six DB colours as well as eight textured colours (W4914 – W4921), four anodised-look colours (WC31 – WC34) and further colours according to WAREMA Colour World (in WAREMA colour specification).
Other colour specifications, special colours and anodisation are available on request at a surcharge.
All visible plastic parts are black.

Window awnings with ZIP guidance
Size 13 cover panel (130x130 mm) Plaster

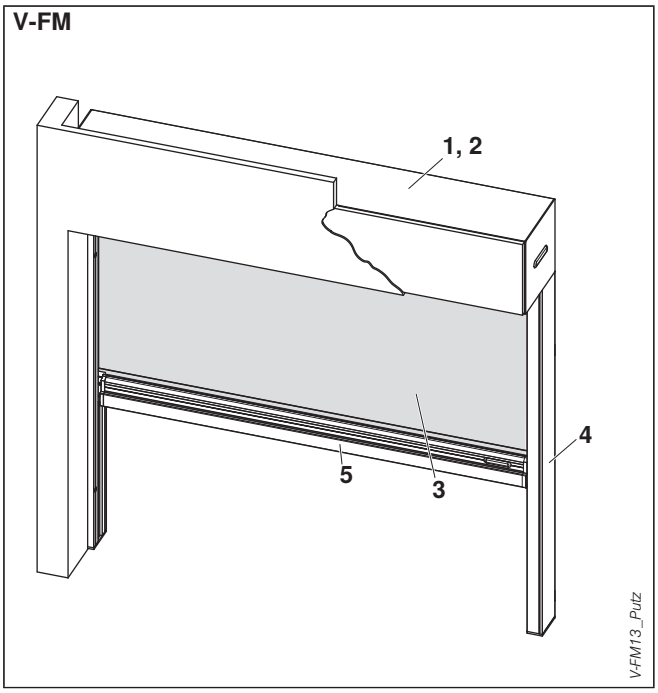


fig. 22: Window awning with ZIP guidance Plaster

1 Cover panel size 13 Plaster
2 Fabric shaft
3 Fabric
4 Lateral guidance
5 Drop profile

Application

Textile external sun shading system for large area shading of vertical punched windows with cover panel and guide rails for setting in plaster.

Operation

Basic motor, 230 V, 50 Hz
ZM REA with electronic limit switch-off (optionally with EWFS/WMS radio plug receiver)
EWFS radio motor, 230 V, 50 Hz (optionally)
W-ZM with electronic limit switch-off
WMS radio motor, 230 V, 50 Hz (optional)
WMS-ZM with electronic limit switch-off
More information about drives from page 278.

As standard, the Hirschmann coupling is placed within the cover panel with clamped 1 m cable whip. Optionally also with line extension in different lengths available (surcharge).

Cover panel (1)

With inspection cover, lateral sections to receive plastering and plaster base squares comprising plaster base plate (8 mm), only as left-rolling blind

Material:	aluminium, extruded
Material thickness:	2 mm
Dimensions (HxD):	130x130 mm plus plaster base square
Surface:	powder-coated
Fixing:	clipped on using consoles on the guide rails
Side covers:	none
Shapes:	rectangular
Plaster base profile:	10, 15, 20, 25 or 40 mm distance (the plaster base profile can also be optionally omitted)

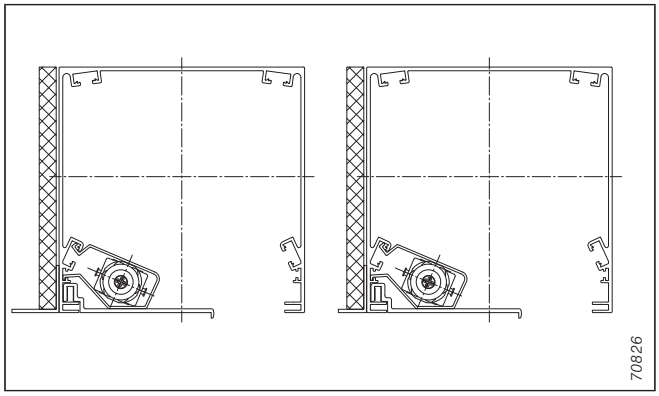


fig. 23: Cover panel

Fabric shaft (2)

Material:	steel, galvanised
Material thickness:	1 mm
Dimensions (Ø):	85 mm
Profile:	groove tube
Surface:	plain

With piping groove for fixing the fabric.

Fabric (3)

Fabric qualities:	Standard/Lumera acrylic fabric Acrylic Perfora/All Weather Soltis 92 fabric Screen fabric More information about the fabrics on page 273
Designs:	according to current WAREMA collection

Special fabrics not included in our current collection are only available upon request and at a surcharge. Acrylic fabrics are generally used crosswise. Exception: when using striped designs the fabrics are used vertically. For further information see page 273.

Window awnings with ZIP guidance
Size 13 cover panel (130x130 mm) Plaster

Lateral guidance (4)

Rail with ZIP guidance

Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain and for damping

Material:	aluminium, extruded
Dimensions (WxH):	25x56 mm
Profile:	C-shaped profile
Surface:	powder-coated
Fixing:	directly on the facade or in the reveal (type V-FM)
End closure:	plastic, black
Inlay:	co-extruded PVC profile

Plaster lathing (optional)

For attaching to guide rail

Material:	plastic
Material thickness:	2 mm
Dimensions (WxH):	17x17 mm
Profile:	L angle
Surface:	white

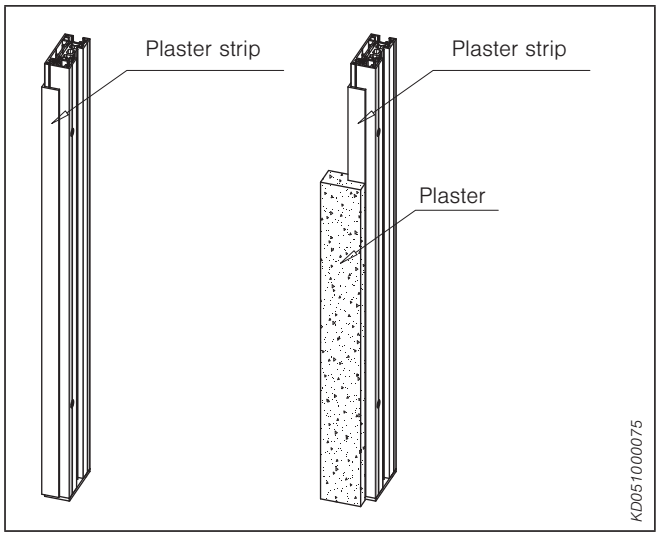


fig. 24: Plaster lathing

Drop profile (5)

Material:	aluminium, extruded
Material thickness:	1.5 mm
Dimensions (WxH):	medium, 35x42 mm large, 35x49 mm
Profile:	rectangular, internal beading channel
Surface:	powder-coated
End plug:	plastic, black

The drop profile is generally visible. The drop profile can optionally be fitted with a brush seal.

Fixing and connecting parts

Within the awning

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 six DB colours as well as eight textured colours (W4914 – W4921), four anodised-look colours (WC31 – WC34) and further colours according to WAREMA Colour World (in WAREMA colour specification).
Other colour specifications, special colours and anodisation are available on request at a surcharge.
All visible plastic parts are black.

Window awnings with ZIP guidance
Size 13 cover panel (130x130 mm)

Weight tables

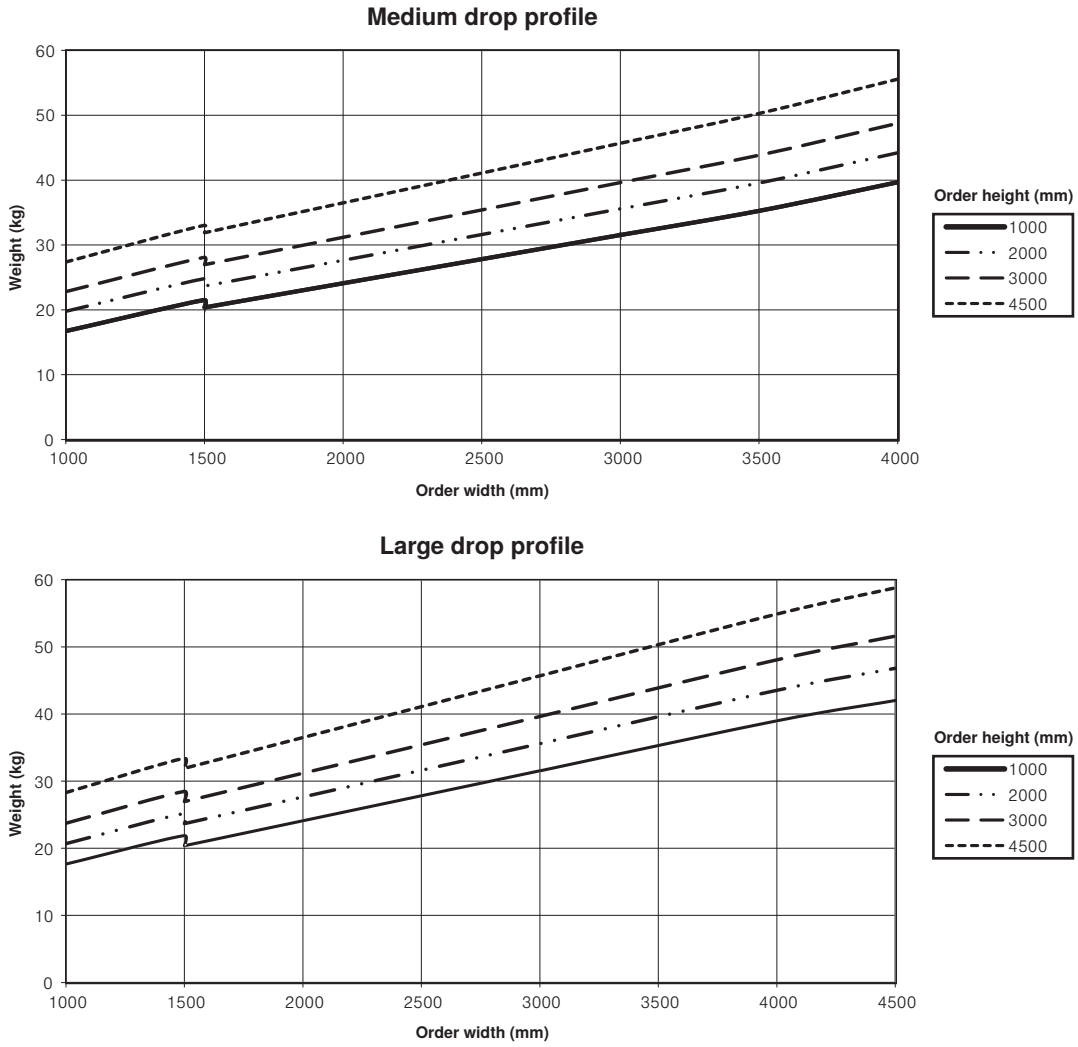


fig. 25: Weight tables

Window awnings with ZIP guidance
Size 13 cover panel (130x130 mm)

You can also use our free planning programme on www.sonnenschutzplaner.de for planning your sun shading control systems – here you can configure the product and create a technical drawing to be integrated into your plans.

Types V-FM and F-FM (size 13 cover panel, rectangular, round or plaster)

Construction limit values in mm

	Type of fabric	Individual unit
		Motor[1)]
Min. width	Acrylic fabric – all qualities (used crosswise)	750
	Screen fabric	750
	Soltis 92 fabric	750
Max. width	Acrylic fabric – all qualities (used crosswise)	4000
	Screen fabric	4500[2)]
	Soltis 92 fabric	4000
Min. height	Acrylic fabric – all qualities (used crosswise)	750
	Screen fabric	750
	Soltis 92 fabric	750
Max. height[3)]	Acrylic fabric – all qualities (used crosswise)	4500[3)4)]
	Screen fabric	4500[4)]
	Soltis 92 fabric	4500[4)]
Max. area (m^2)	Acrylic fabric – all qualities (used crosswise)	18[5)]
	Screen fabric	18[5)]
	Soltis 92 fabric	18[5)]

[1)] *Only available with motor drive,* **no** *crank drive*
[2)] *Above 4001 mm only possible with wide guide rail and large drop profile*
[3)] *Acrylic fabric – used vertically (stripe designs) – up to max. 2500 mm height*
[4)] *Cover panel shape Plaster up to max. height 4000 mm*
[5)] *Cover panel shape plaster up to max. 16 m^2*

Attention:
- Only individual units with motor drive available!
- For the stated construction limit values all acrylic fabrics are used crosswise, more information on page 273.

Window awnings with ZIP guidance
Size 13 cover panel (130x130 mm)

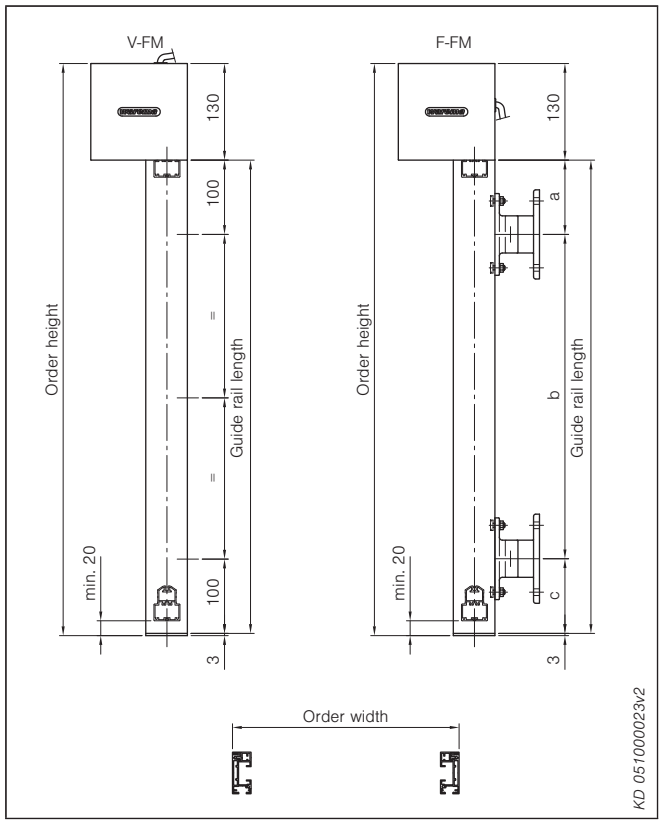


fig. 26: Measuring instructions

Number of drilled holes for direct installation type V-FM

Guide rail length	Fixing holes
–900	2
901–1600	3
1601–2300	4
2301–3000	5
3001–3700	6
3701–4370	7

Spacing and number of brackets for distance installation, type F-FM

Type	Rail type	Bracket spacing in mm					No. of brackets for guide rail length in mm			
		a		b	c		No. of brackets			
		min.	max.	max.	min.	max.	2 to	3 to	4 to	5 to
Size 13	C 25/56	100	200	2000	70	300	1900	2900	3900	4370

Window awnings with ZIP guidance V-FM
Direct installation, rectangular cover panel size 13
Drop profile 35x42

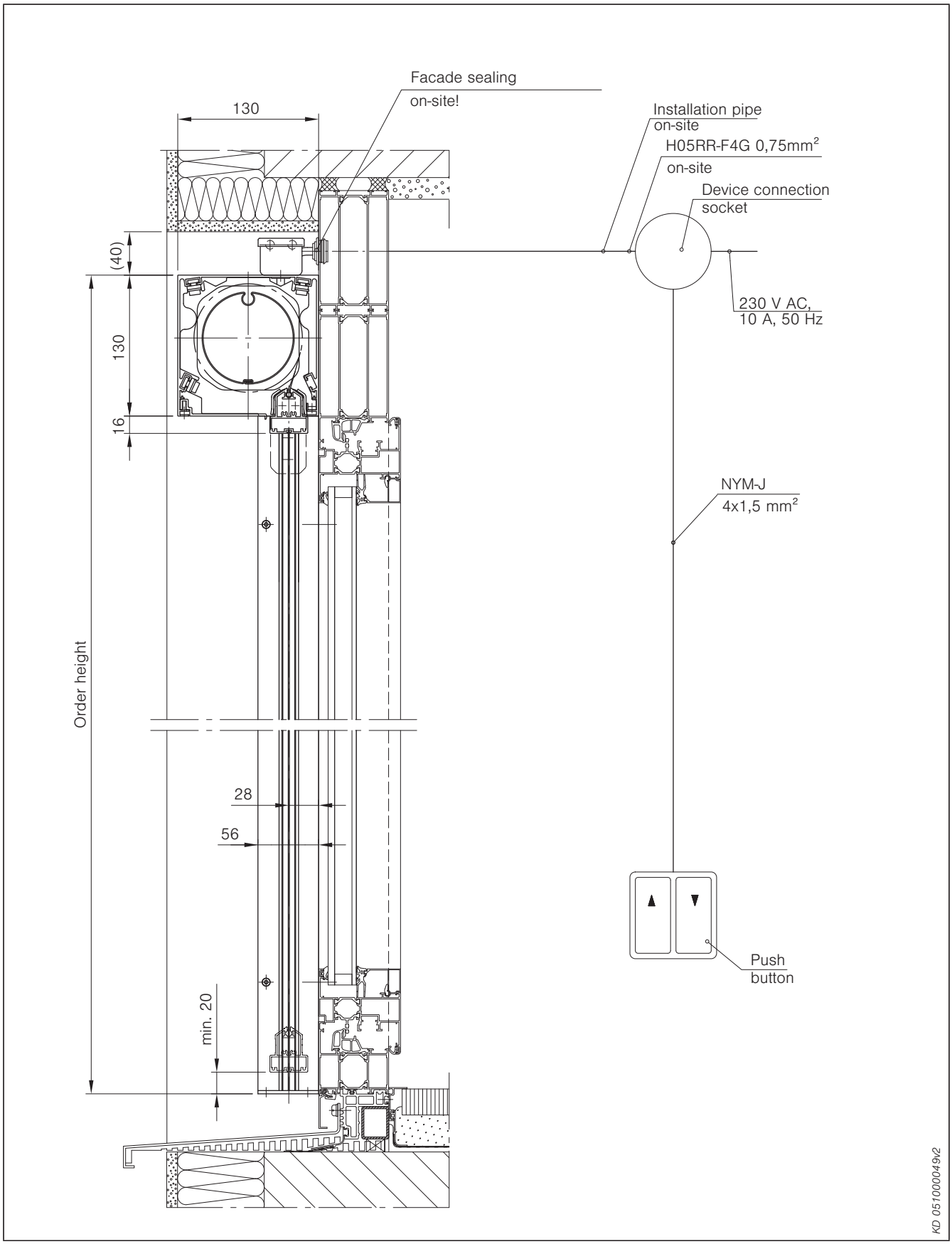
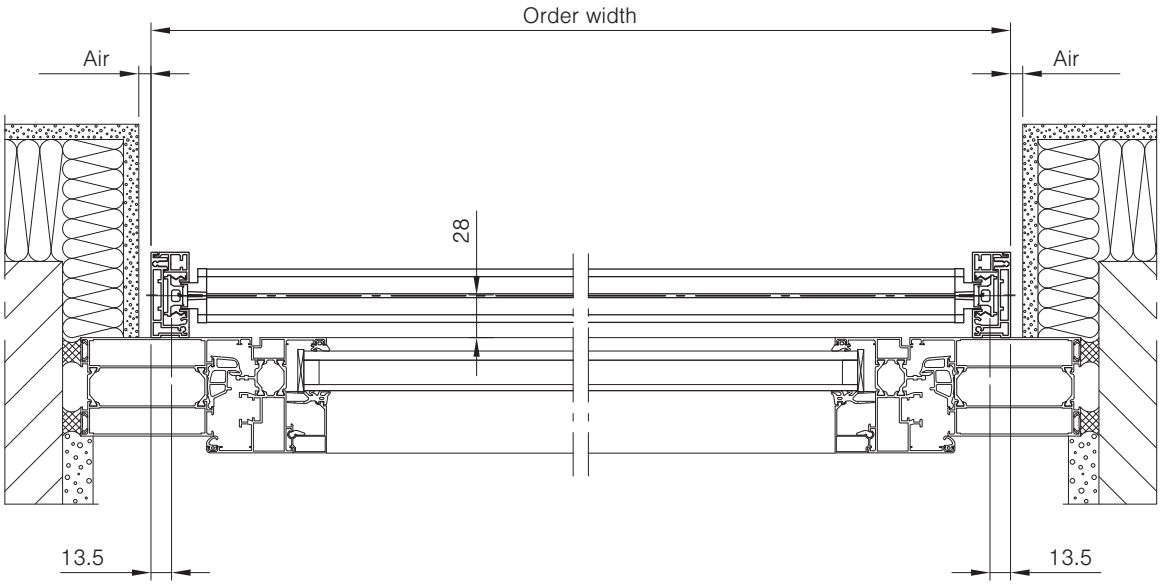
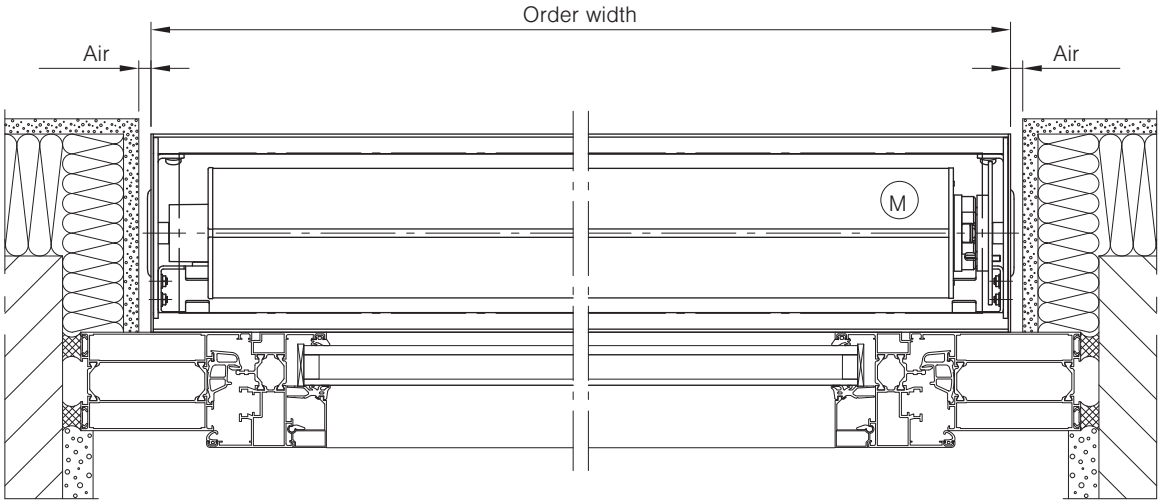


fig. 27: Window awning with ZIP guidance V-FM with rectangular cover panel size 13, direct installation, left rolling blind

Window awnings with ZIP guidance V-FM
Direct installation, rectangular cover panel size 13
Drop profile 35x42





KD 05100005 0v2

fig. 28: Window awning with ZIP guidance V-FM with rectangular cover panel size 13, direct installation, left rolling blind

Window awnings with ZIP guidance F-FM
Distance installation, rectangular cover panel size 13
Drop profile 35x49

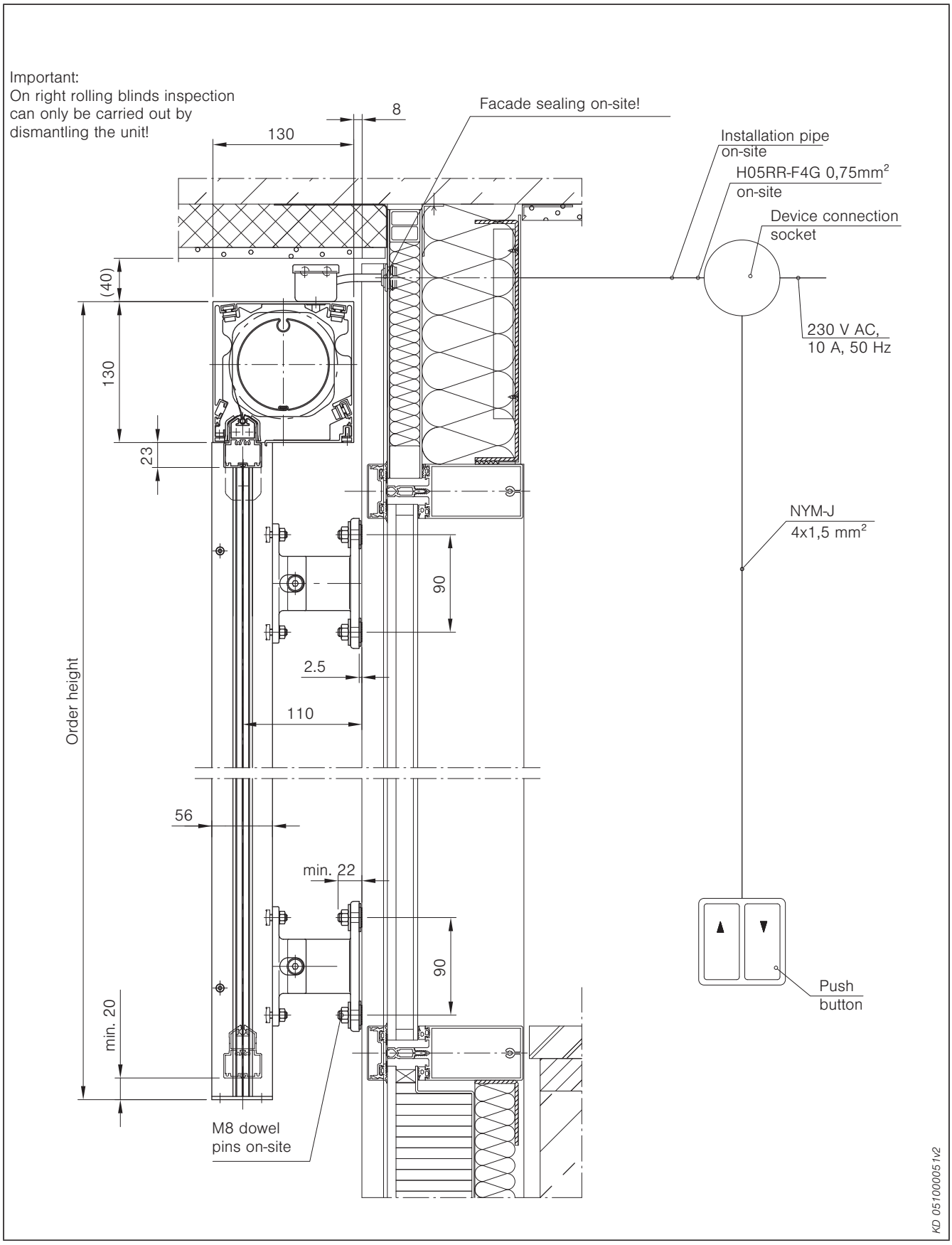


fig. 29: Window awning with ZIP guidance F-FM with rectangular cover panel size 13, distance installation, right rolling blind

Window awnings with ZIP guidance F-FM
Distance installation, rectangular cover panel size 13
Drop profile 35x49

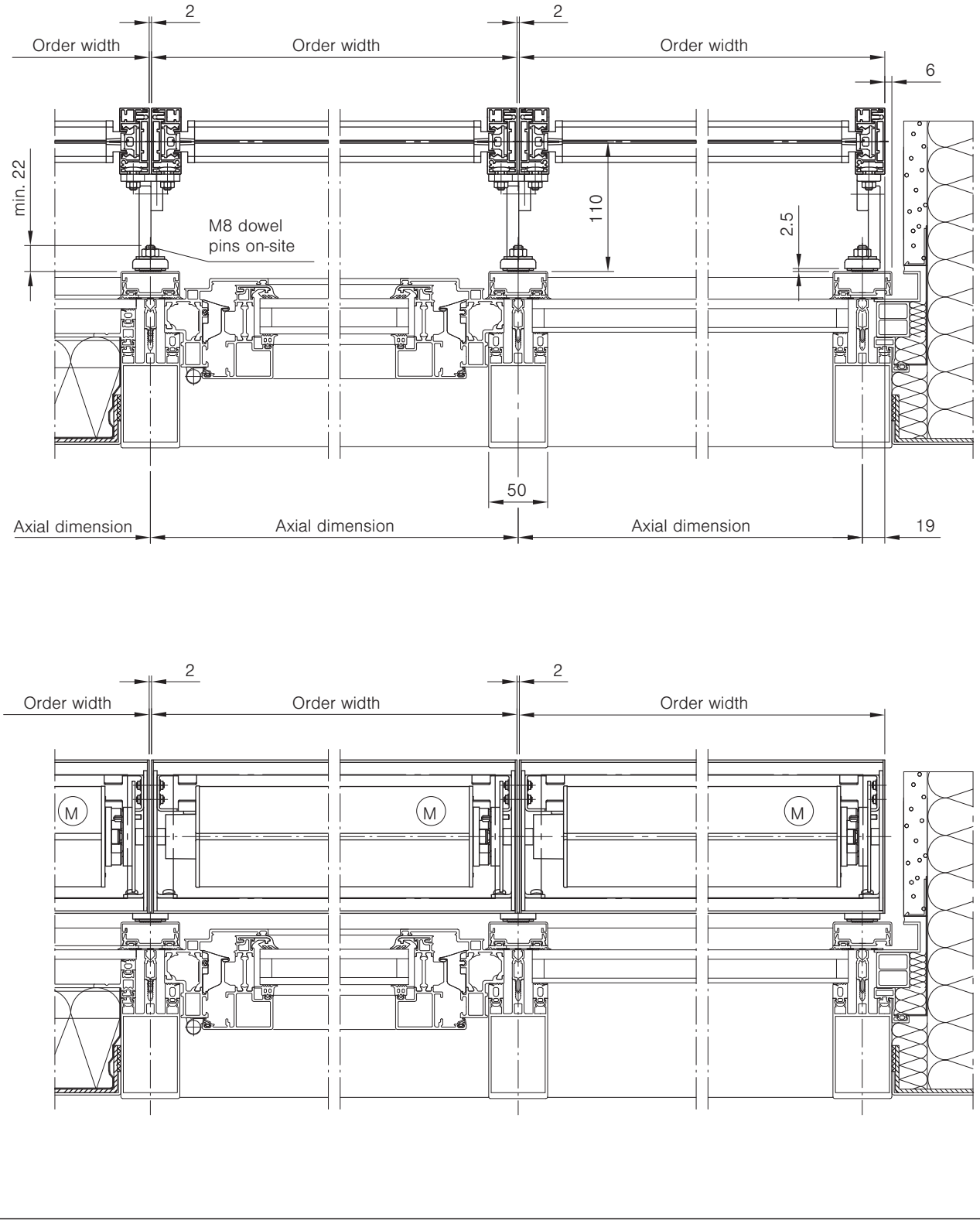
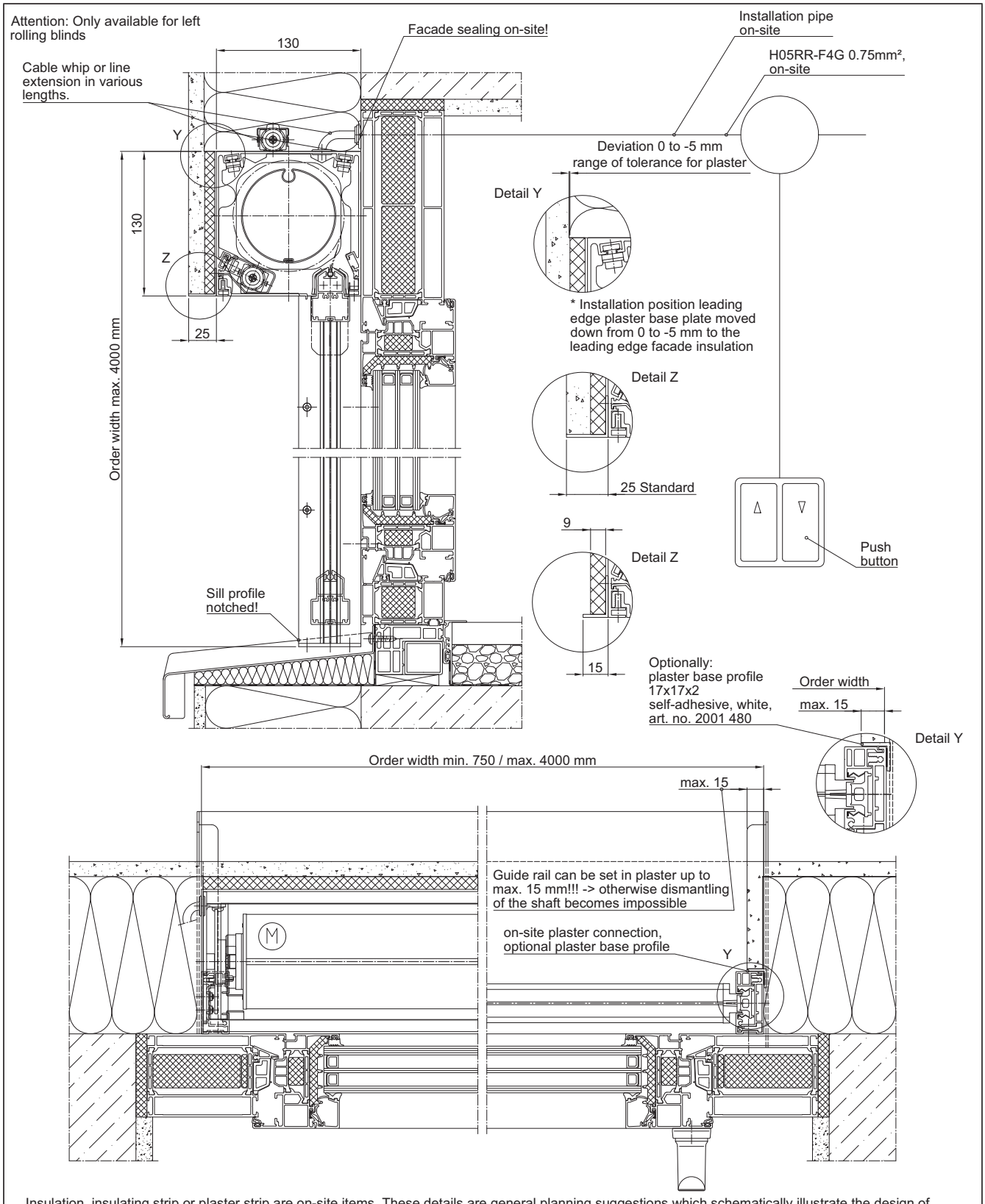


fig. 30: Window awning with ZIP guidance F-FM with rectangular cover panel size 13, distance installation, right rolling blind

Window awnings with ZIP guidance V-FM
Direct installation, cover panel size 13 plaster
Drop profile 35x49



Insulation, insulating strip or plaster strip are on-site items. These details are general planning suggestions which schematically illustrate the design of an EIFS. The illustration does not relieve the client of their obligation to carry out an individual examination of the particular building project for applicability and completeness. Adjoining building features are only schematically illustrated. All specifications and assumptions are to be adjusted to the local circumstances and coordinated. Plaster or reinforcement joining of the plaster base plate to the on-site insulation/masonry must be carried out in accordance with DIN specifications. The design must correspond with generally accepted good engineering practises.

70827

fig. 31: Window awning with ZIP guidance V-FM

Notes

Window awnings with ZIP guidance
Size 15 cover panel (150x150 mm)

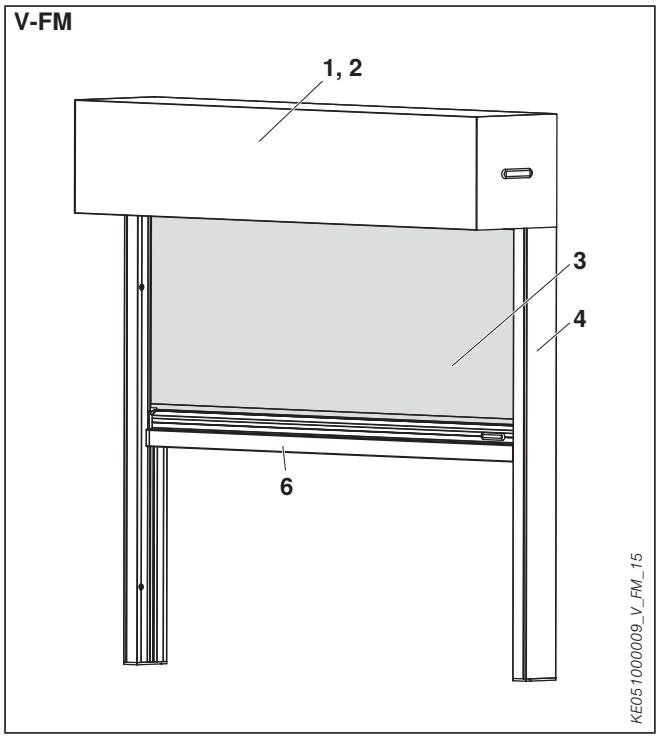


fig. 32: Window awning with ZIP guidance V-FM

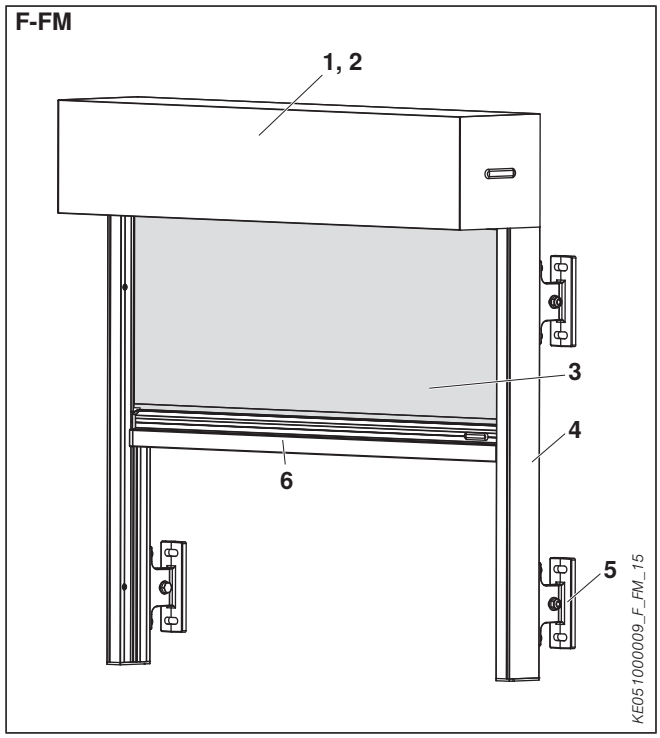


fig. 33: Window awning with ZIP guidance F-FM

1 **Cover panel (rectangular)**
2 **Fabric shaft**
3 **Fabric**
4 **Lateral guidance**
5 **Guide rail bracket (only type F-FM)**
6 **Drop profile**

Application

Textile external sun shading system with large cover panel size for shading particularly large vertical punched or element windows as well as for direct mounting in the reveal (type V-FM). Mounting with distance e.g. for mullion and transom facades (type F-FM).

Operation

Basic motor, 230 V, 50 Hz
ZM REA with electronic limit switch-off (optionally with EWFS/WMS radio plug receiver)
EWFS radio motor, 230 V, 50 Hz (optional)
W-ZM with electronic limit switch-off
WMS radio motor, 230 V, 50 Hz (optional)
WMS-ZM with electronic limit switch-off
More information about drives from page 278.

Cover panel (1)

With revision cover, available as left and right rolling blinds

Material:	aluminium, extruded
Material thickness:	2.5 mm
Dimensions HxD:	150x150 mm
Surface:	powder-coated, optionally anodised
Fixing:	clipped on using consoles on the guide rails
Side covers:	aluminium, powder-coated
Shapes:	rectangular

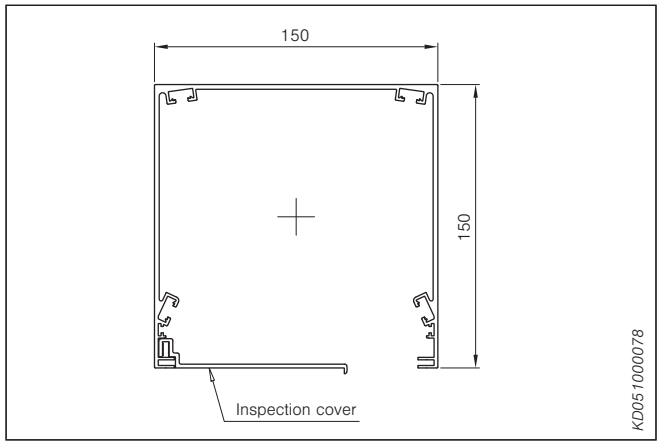


fig. 34: Cover panel

Fabric shaft (2)[1)]

Material:	aluminium, extruded
Material thickness:	2.1 mm/2.3 mm
Dimensions (Ø):	108 mm/120 mm

[1)] *for Soltis 92 fabric, a aluminium shaft with Ø120 mm is used*

Window awnings with ZIP guidance
Size 15 cover panel (150x150 mm)

Profile: groove tube
Surface: plain
With piping groove for fixing the fabric. The fabric shaft size depends on the used fabric quality in relation to the relevant sizes.

Fabric (3)

Fabric qualities: Standard/Lumera acrylic fabric
Acrylic Perfora/All Weather
Soltis 92 fabric
Screen fabric
PVC film, for viewing field (only in combination with screen fabric, wide guide rail and large drop profile)
More information about the fabrics on page 273
Designs: according to current WAREMA collection
Special fabrics not included in our current collection are only available upon request and at a surcharge. Acrylic fabrics are generally used crosswise. Exception: when using striped designs the fabrics are used vertically. From a width of 4001 mm, only unicoloured designs used crosswise are possible.
For further information see page 273.

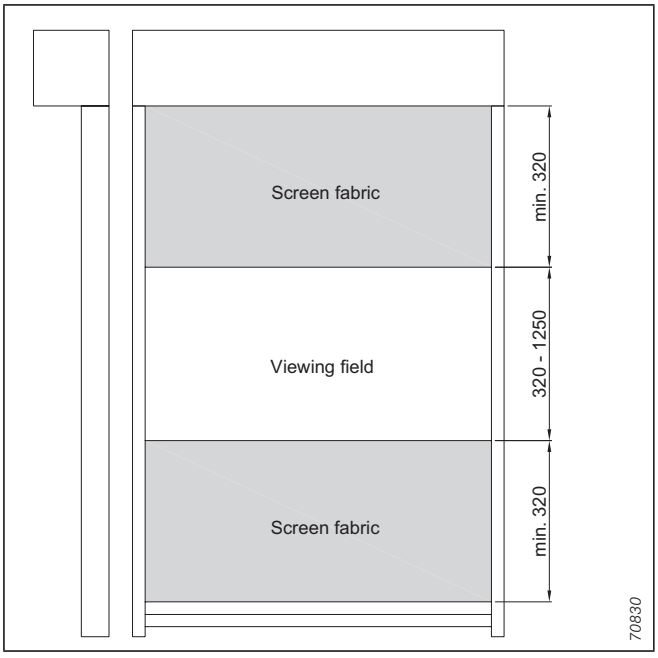


fig. 35: Viewing field made from PVC film

Lateral guidance (4, 5)

Rail with ZIP guidance
Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain and for damping
Material: aluminium, extruded
Dimensions (WxH): 25x56 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal (type V-FM)
Guide rail bracket (type F-FM)
End closure: plastic, black
Inlay: co-extruded PVC profile

Wide rail with ZIP guidance
Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain.
Material: aluminium, extruded
Dimensions (WxH): 37x56 mm
Profile: C-shaped profile
Surface: powder-coated, optionally anodised
Fixing: directly on the facade or in the reveal (type V-FM)
Guide rail bracket (type F-FM) on request
End closure: aluminium, black
Inlay: co-extruded PVC profile
Springs: spring steel

Drop profile (6)

Material: aluminium, extruded
Material thickness: 1.5 mm
Dimensions (WxH): medium, 35x42 mm (up to max. 4000 mm order width)
large, 35x49 mm
Profile: rectangular, internal beading channel
Surface: powder-coated, optionally anodised
End plug: plastic, black

The drop profile is generally visible. The drop profile can optionally be fitted with a brush seal.

Fixing and connecting parts

Within the awning
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 six DB colours as well as eight textured colours (W4914 – W4921), four anodised-look colours (WC31 – WC34) and further colours in accordance with WAREMA Colour World (in WAREMA colour specification).
Other colour specifications, special colours or anodisation are available on request for a surcharge.
All visible plastic parts are black.

Window awnings with ZIP guidance
Size 15 cover panel (150x150 mm)

Weight tables

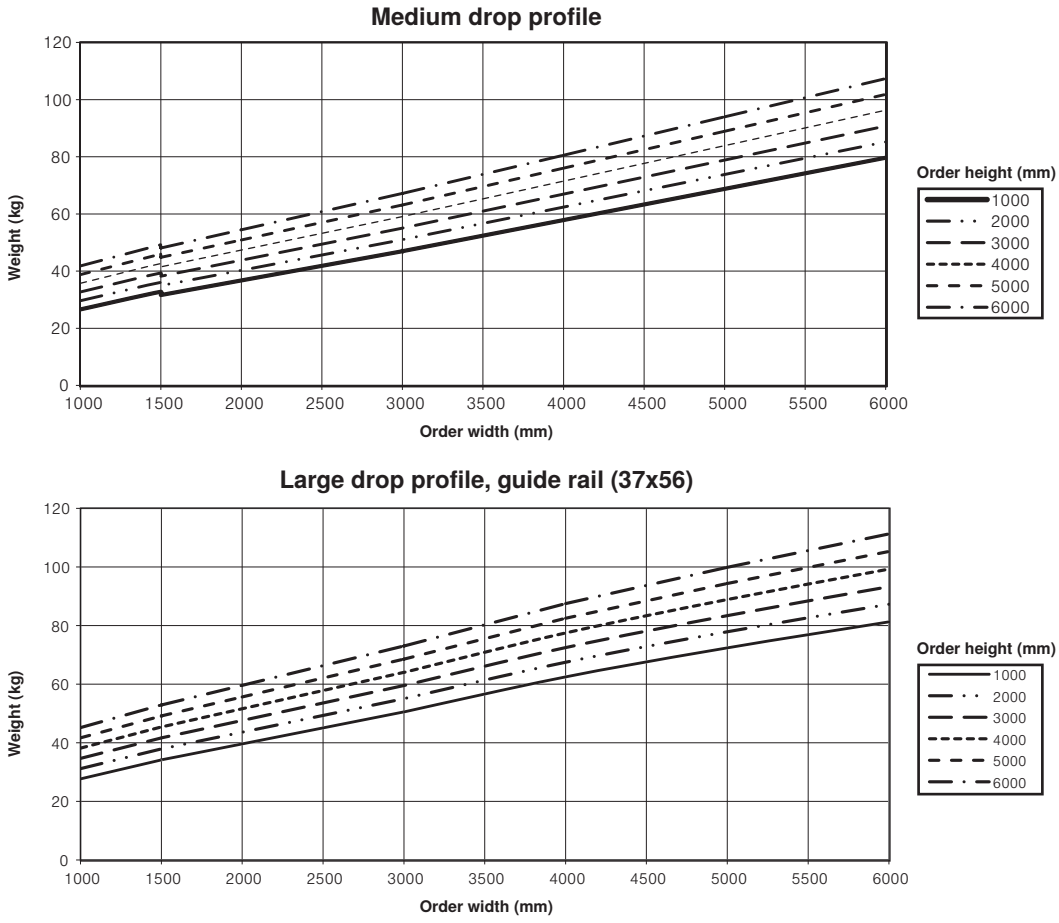


fig. 36: Weight tables

Window awnings with ZIP guidance
Size 15 cover panel (150x150 mm)

You can also use our free planning programme on www.sonnenschutzplaner.de for planning your sun shading control systems – here you can configure the product and create a technical drawing to be integrated into your plans.

Type V-FM and F-FM (size 15 cover panel, rectangular)

Construction limit values in mm

	Type of fabric	Individual unit
		Motor[1]
Min. width	Acrylic – all qualities (used crosswise)	750
	Screen fabric	750
	Soltis 92 fabric	750
Max. width	Acrylic – all qualities (used crosswise)	6000[2]
	Screen fabric	6000[3]
	Screen fabric with PVC viewing field	4000
	Soltis 92 fabric	4000
Min. height	Acrylic – all qualities (used crosswise)	950
	Screen fabric	950
	Soltis 92 fabric	950
Max. height[4]	Acrylic – all qualities (used crosswise)	6000[4]
	Screen fabric	6000
	Screen fabric with PVC viewing field	3000
	Soltis 92 fabric	6000
Max. area (m^2)	Acrylic – all qualities (used crosswise)	18
	Screen fabric	18
	Screen fabric with PVC viewing field	12
	Soltis 92 fabric	18

[1] *only available with motor drive,* **no** *crank drive*
[2] *Acryl All Weather only available up to 4000 mm*
[3] *Above 4001 mm only possible with wide guide rail and large drop profile.*
[4] *Acrylic fabric – used vertically (stripe designs) – up to max. 4000 mm height*

Attention:
- Only individual units with motor drive available!
- For the stated construction limit values all acrylic fabrics are used crosswise, more information on page 273.

Number of drilled holes for direct installation type V-FM

Guide rail length	Fixing holes
–900	2
901–1600	3
1601–2300	4
2301–3000	5
3001–3700	6
3701–4400	7
4401–5100	8
5101–5800	9
5801–5850	10

Window awnings with ZIP guidance
Size 15 cover panel (150x150 mm)

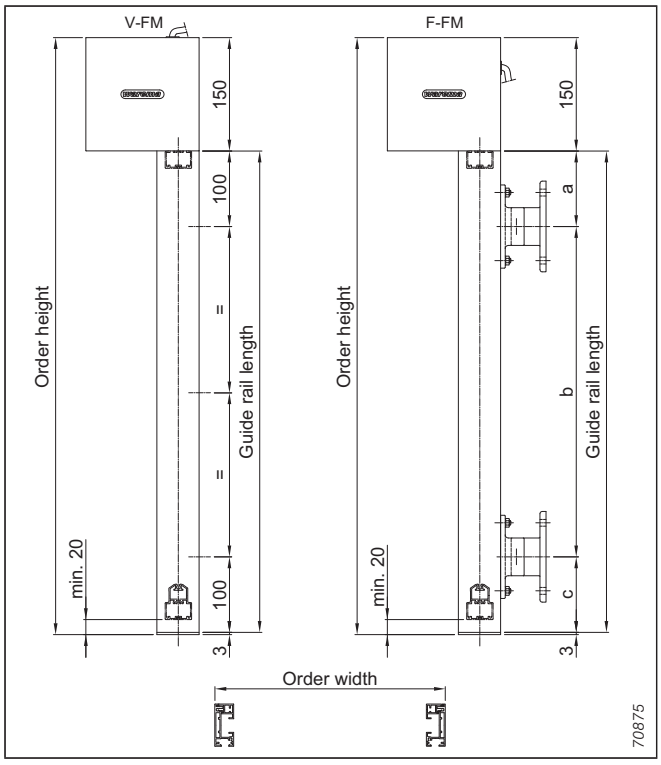


fig. 37: Measuring instructions with narrow guide rail

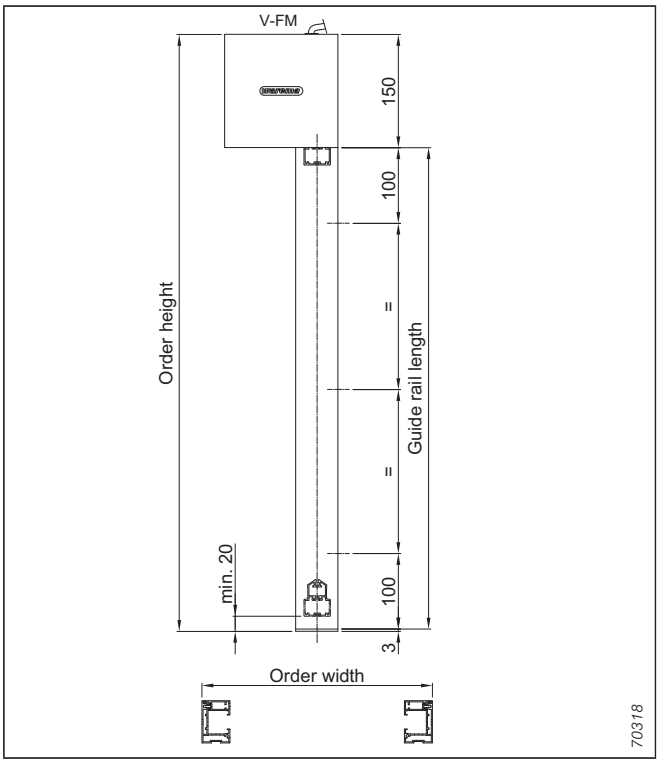


fig. 38: Measuring instructions with wide guide rail

Spacing and number of brackets for distance installation, type F-FM

Type	Rail type	Bracket spacing in mm					No. of brackets for guide rail length in mm				
		a		b	c		No. of brackets				
		min.	max.	max.	min.	max.	2 to	3 to	4 to	5 to	6 to
Size 15	C 25/56	100	200	2000	70	300	1900	2900	3900	4900	5850

Window awnings with ZIP guidance F-FM
Distance installation, rectangular cover panel size 15
Guide rail (25x56 mm)
Drop profile 35x49

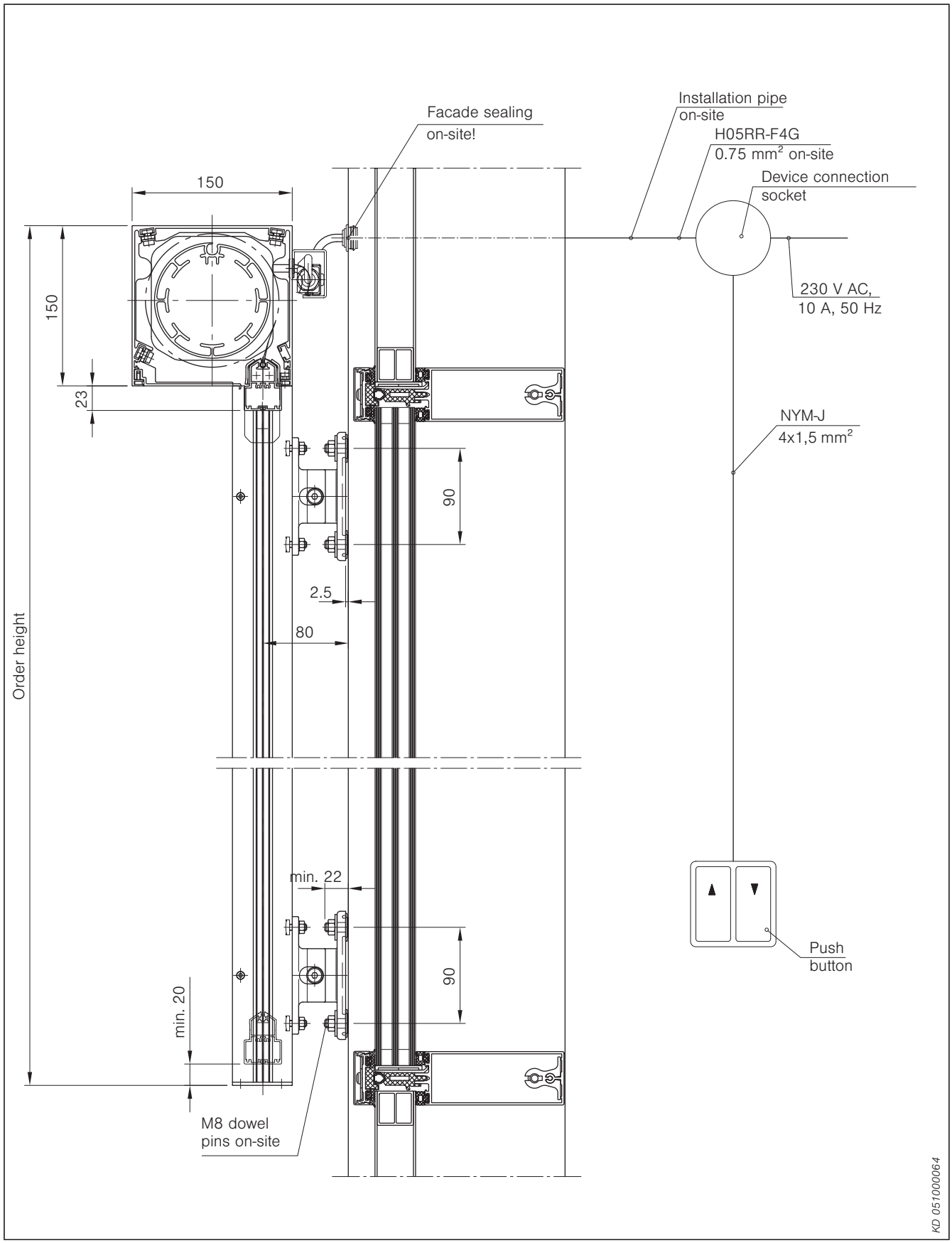


fig. 39: Window awning with ZIP guidance F-FM

Window awnings with ZIP guidance F-FM
Distance installation, rectangular cover panel size 15
Guide rail (25x56 mm)
Drop profile 35x49

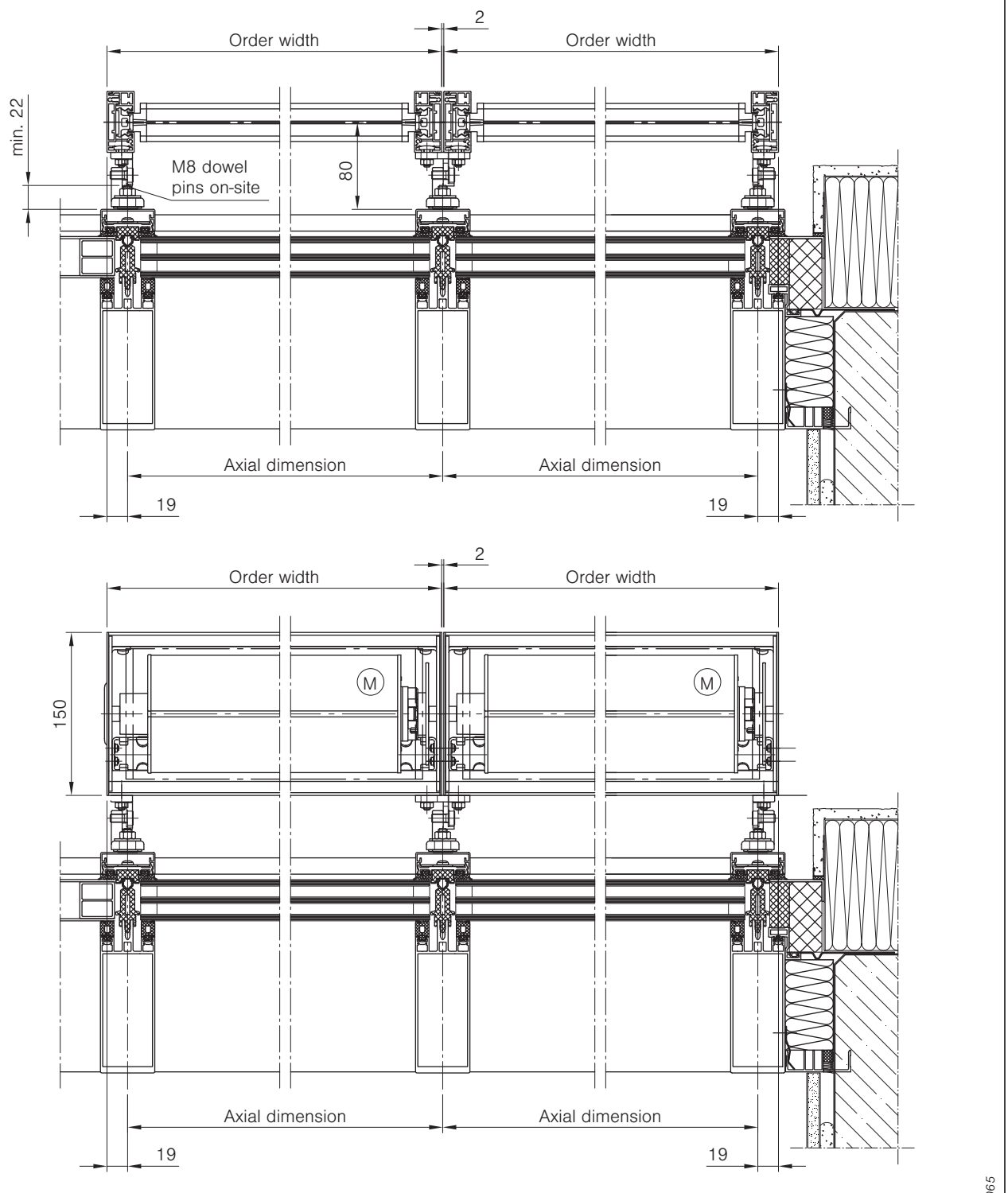


fig. 40: Window awning with ZIP guidance F-FM

Window awnings with ZIP guidance F-FM
Distance installation, rectangular cover panel size 15
Wide guide rail (37x56 mm)
Drop profile 35x49

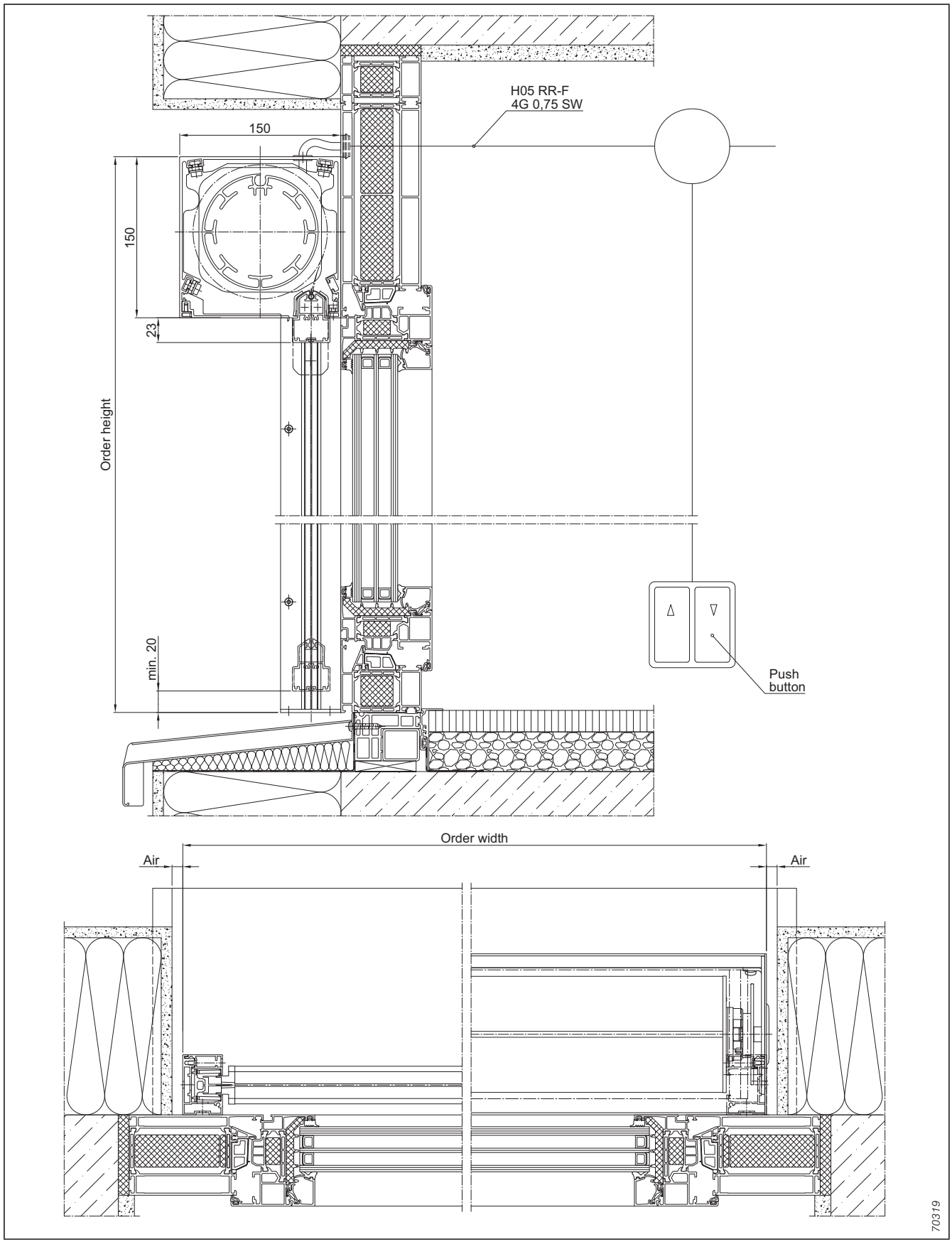


fig. 41: Window awning with ZIP guidance F-FM, wide guide rail

Guide rails

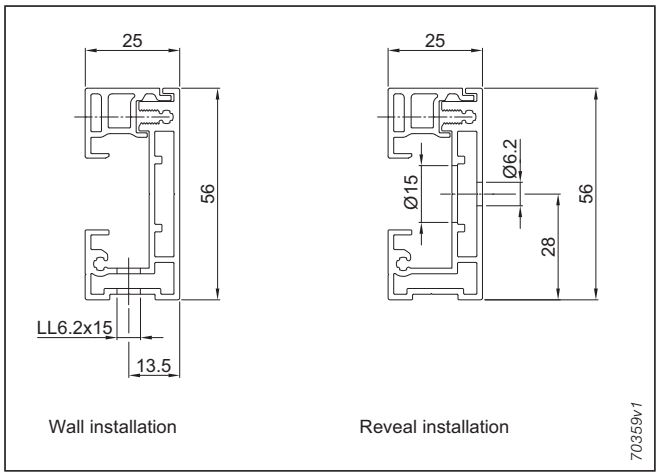


fig. 42: Guide rail, V-FM

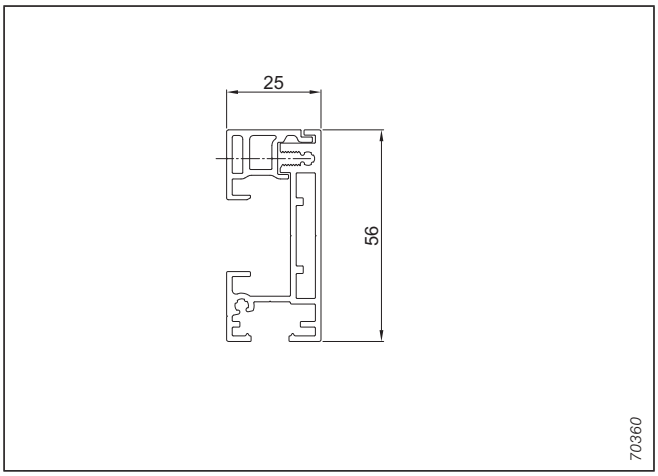


fig. 43: Guide rail, F-FM

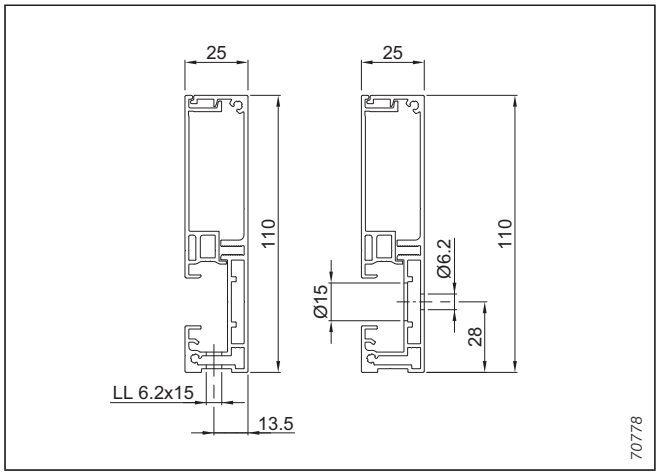


fig. 44: Deep guide rail, size 11 cover panel

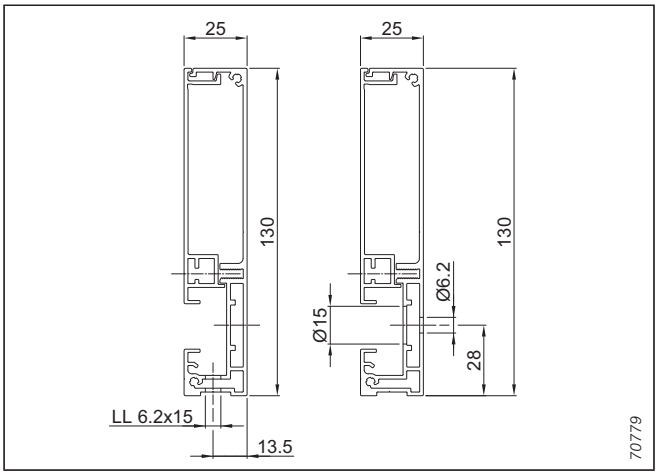


fig. 45: Deep guide rail, size 13 cover panel

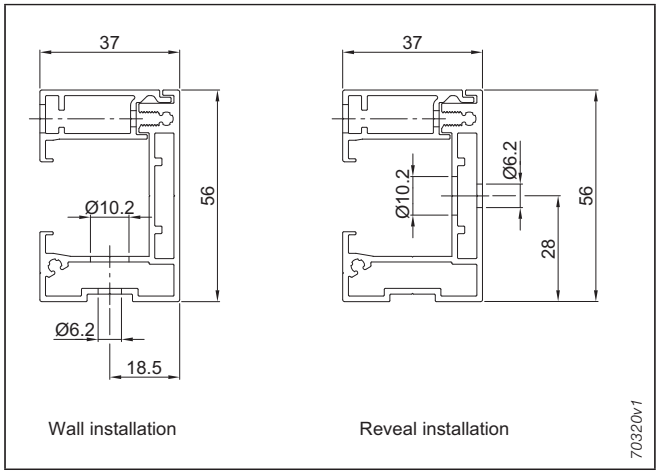


fig. 46: Wide guide rail 37x56 mm, V-FM

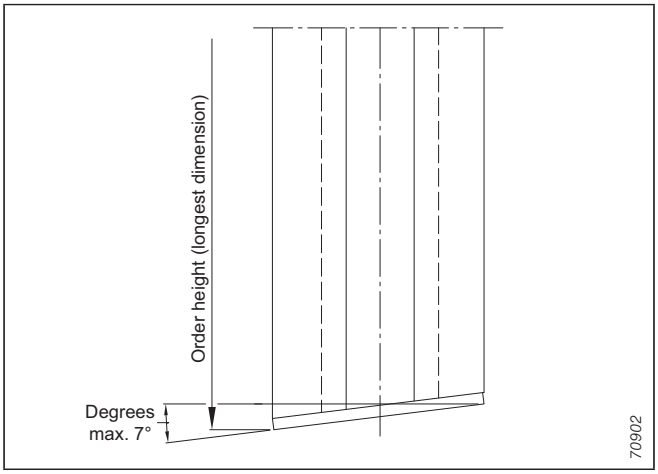


fig. 47: Diagonal cross section of guide rails

Guide rail bracket for distance mounting (type F-FM)

Guide rail bracket no. 7

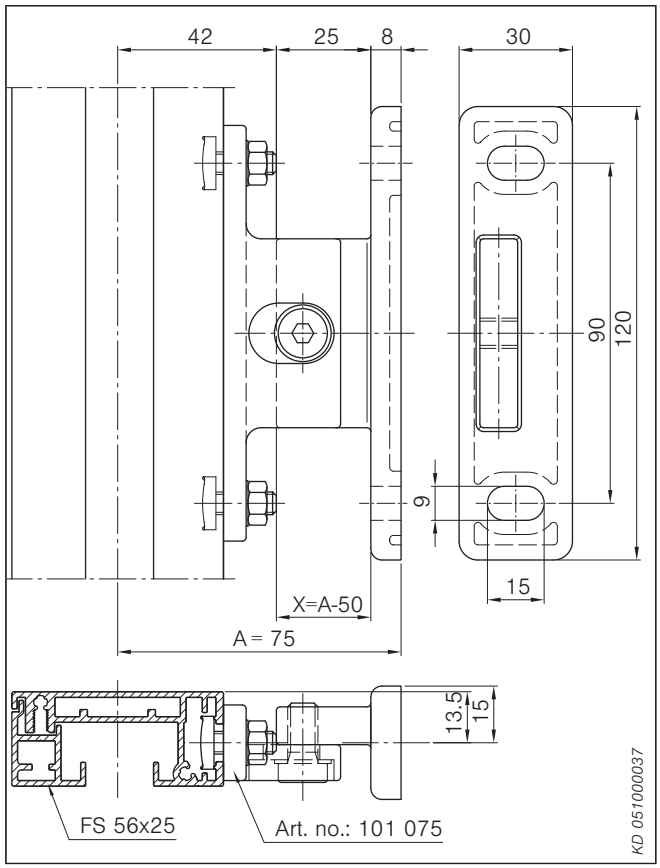


fig. 48: Guide rail bracket no. 7

Guide rail bracket no. 8

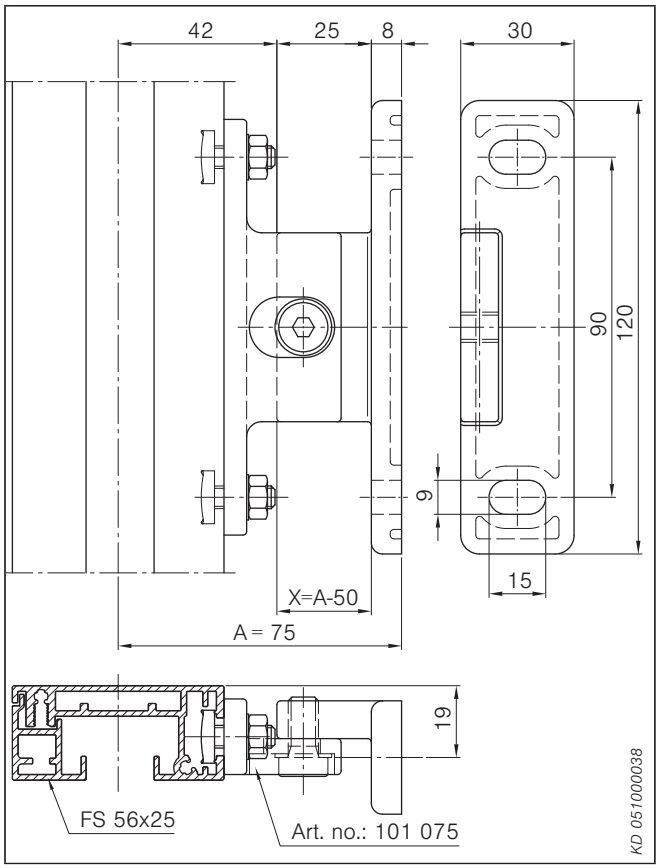


fig. 49: Guide rail bracket no. 8

Guide rail	Distance "A" in mm	Length of bracing "X" (X=A-50)	Shifting range
56x25	75	25	+0.5 -6.5
56x25	max. 150	100	+0.5 -6.5

Guide rail	Distance "A" in mm	Length of bracing "X" (X=A-50)	Shifting range
56x25	75	25	+0.5 -6.5
56x25	max. 150	100	+0.5 -6.5

Guide rail bracket for distance mounting (type F-FM) Serial mounting

Bracket 9 is available for serial mounting. Two guide rails can be mounted over one bracket.

Guide rail bracket no. 9

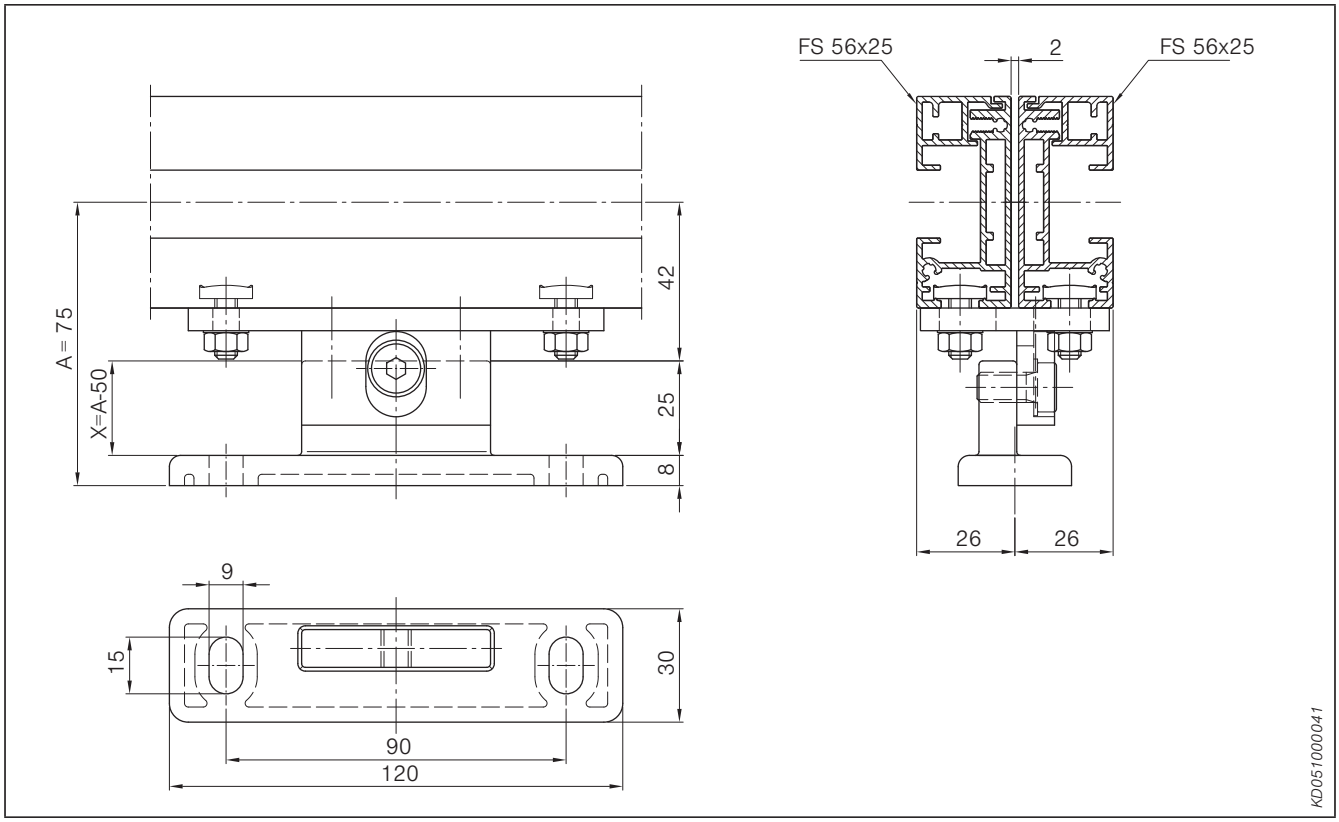
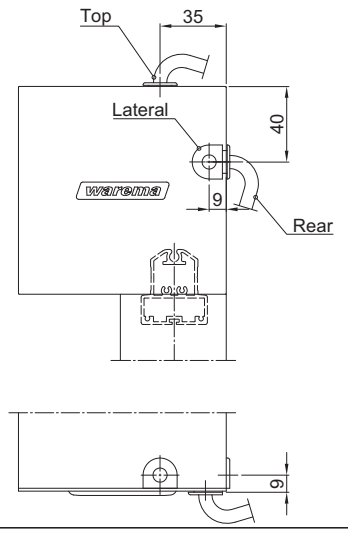


fig. 50: Guide rail bracket no. 9 – mounting two guide rails on one bracket

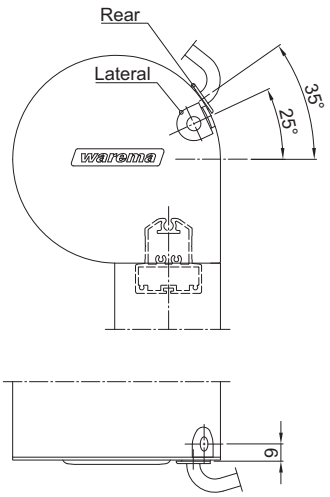
Guide rail	Distance "A" in mm	Length of bracing "X" (X=A-50)	Shifting range
56x25	75	25	+0.5 -6.5
56x25	max. 150	100	+0.5 -6.5

Window awning with ZIP guidance
Possible cable exits (applies for all cover panel sizes)
Drop profile

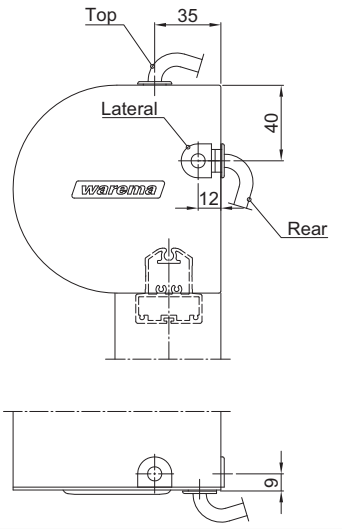
Rectangular cover panel



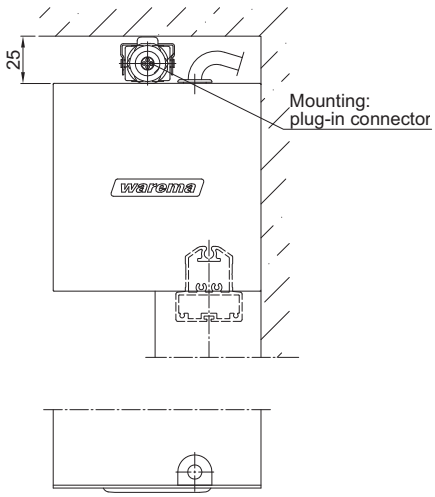
Round cover panel



Half-round cover panel



Mounting plug-in connector



Drop profile

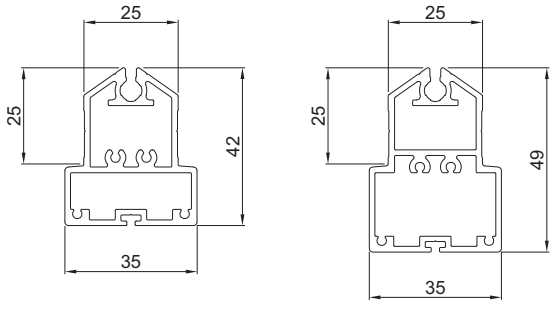


fig. 51: Drop profiles 35x42 mm and 35x49 mm

Notes

Integrated lintel insulation

Lintel insulation

- Optimal cover panel insulation
- Thermal bridges in lintel area are avoided
- Insulation at top or rear of header possible
- Insulation already mounted at the factory
- Ideal solution for integration into the insulation layer of a facade

Types

Optional for window awnings with ZIP guidance

- Size 13 cover panel, rectangular or plaster
- Size 15 cover panel, rectangular

Available insulation thicknesses

15 mm, 20 mm, 30 mm, 40 mm, 50 mm and 60 mm.
Intermediate sizes are not possible.
Insulating material: polyurethane rigid foam (PUR) with aluminium lamination on both sides
Thermal conductivity λ = 0.024 W/(mK)

Thermal resistance R per insulation thickness

	Insulation thickness in mm					
	15	20	30	40	50	60
R	0.6	0.8	1.2	1.6	2	2.4

Variants and dimensions for each cover panel shape

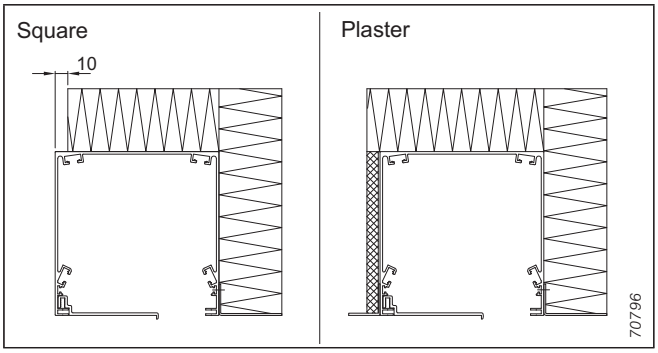


fig. 52: Variants and dimensions for each cover panel shape

Dimension determination using the example of cover panel shape plaster

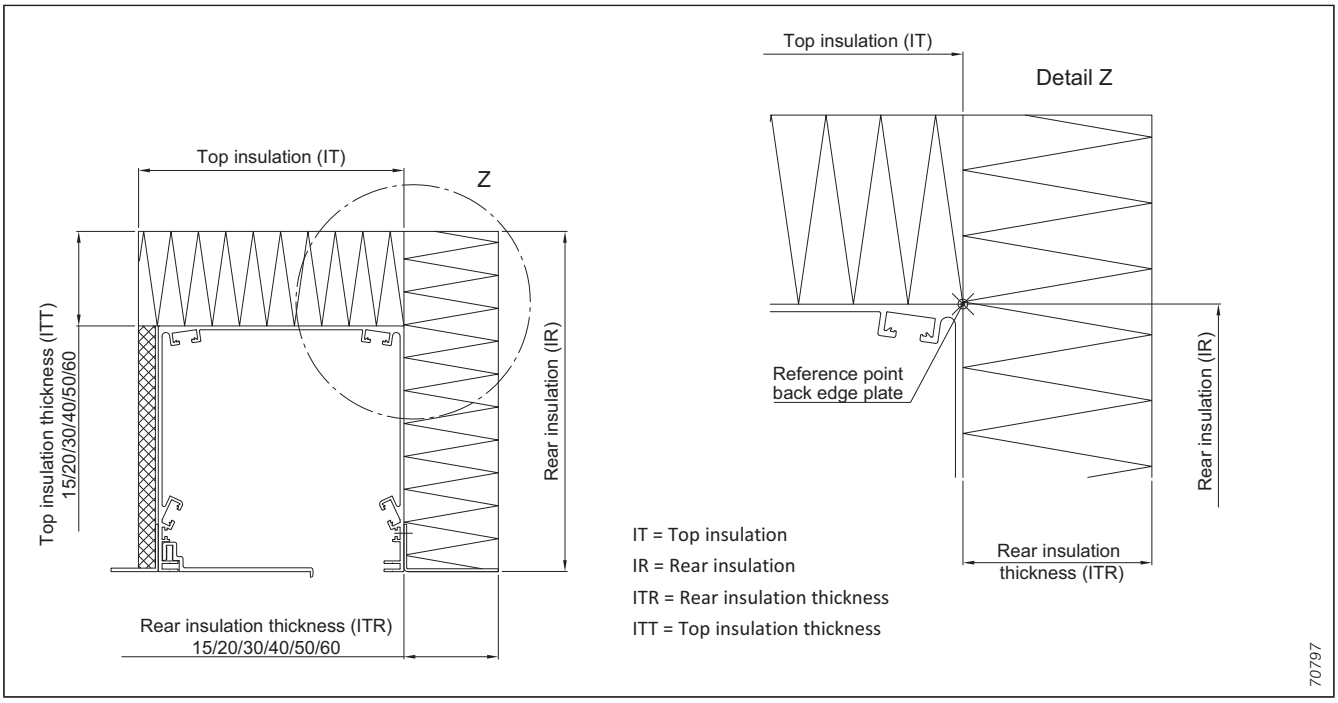


fig. 53: Dimension determination using the example of cover panel shape plaster

Integrated lintel insulation

Important information on insulation measuring:

1. The reference point ⊛ is located at the cover panel back edge in general, see fig. 53, detail Z
2. Available insulation thicknesses are defined as ITT (insulation thickness top) or ITR (insulation thickness rear). An overview of available insulation thicknesses is shown on the top left.
3. If only one side and/or surface of the cover panel is insulated, the insulation always ends at the reference point ⊛ (= cover panel back edge)
4. In the case of the cover panel shape plaster, IT (top insulation) always finishes flush to the leading edge of the plaster base plate.
5. If the IT (insulation top) is to be drawn-in at the front or the IR (insulation rear) at the bottom, this dimension shall be reduced in each case (see also the mounting example fig. 54: here the dimension "IR" is drawn-in, for example)

Cable exit lateral is recommended.
An aluminium angle bracket to the lower optical closure of the rear insulation (IR) is available on request.

Mounting example

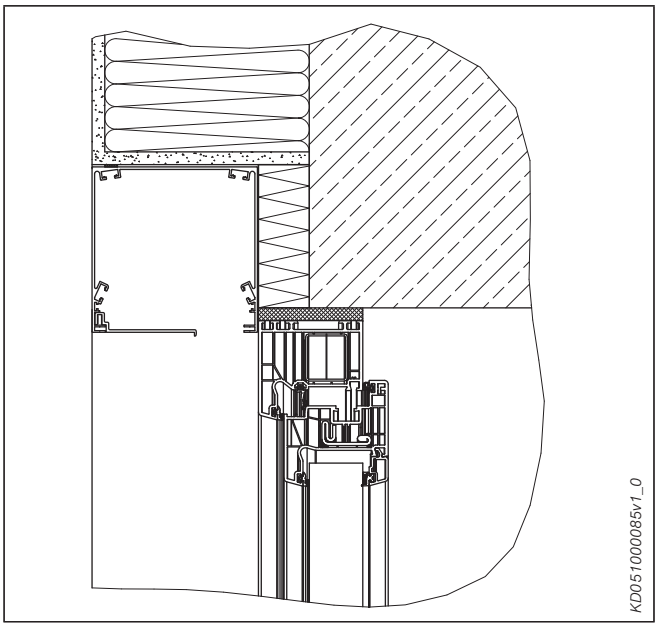


fig. 54: Mounting example

Accessories for proper connection of the awning to the facade

Designation		Art. no.	Unit
Foam sealing strip	– 20x2-6, self-adhesive, black	811007	12 m reel
	– 20x5-12, self-adhesive, black	811023	5.6 m reel
	– 20x4-9, self-adhesive, black	811039	8 m reel

Window awnings with ZIP guidance, corner solution

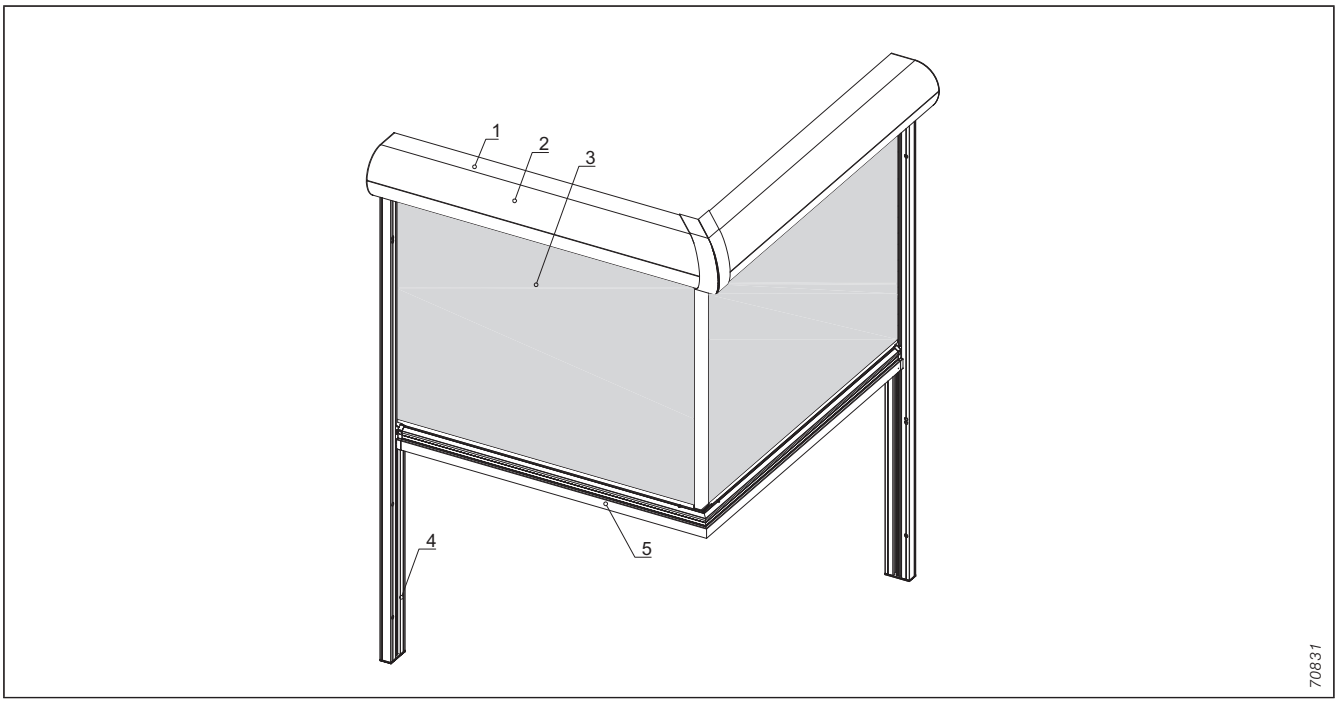


fig. 55: Window awnings with ZIP guidance, corner solution

1 Cover panel
2 Fabric shaft
3 Fabric
4 Lateral guidance
5 Drop profile

Application

Textile external sun shading system specially for corner installation without disruptive guidance elements such as guide rails or cables in the corner. Particularly suitable for patio roofs with drawn-in poles.

Operation

Basis motor, 230 V, 50 Hz
ZM with electronic limit switch-off (optionally with EWFS/WMS radio plug receiver)
EWFS radio motor, 230 V, 50 Hz (optional)
W-ZM with electronic limit switch-off
WMS radio motor, 230 V, 50 Hz (optional)
For more information on the drives see the technical documentation for window awnings with ZIP guiding, page 277.
The motor must always be positioned on the outside of the long side.
The responsive obstacle detection function is not possible with the corner solution.

Cover panel (1)

With inspection cover, as left rolling blind, cut to mitre incl. mitre cover

Material:	aluminium, extruded
Material thickness:	1.7 mm
Dimensions (HxD):	110x110 mm
Surface:	powder-coated, optionally anodised
Fixing:	clipped on using consoles on the guide rails. Additional fixing in the area of the corner via supports on the side cover of the eaves

Side covers: aluminium, powder-coated

Shapes:	rectangular, half-round

Fabric shaft (2)

Material: aluminium, extruded/steel, galvanised

Material thickness:	1.6 mm/1.8 mm/1 mm
Dimensions (Ø):	62.2 mm/70 mm/61 mm
Profile:	groove tube
Surface:	plain

Fabric (3)

Fabric qualities:	screen fabric
Designs:	according to current WAREMA collection

For more information about the fabrics, see page 273.

Lateral guide (4)

Rail with ZIP guidance
Lateral guidance using ZIP (zipper) directly in the two-piece rail. Internal flexible PVC inlay for guiding the curtain and for damping. Mounting on the long side on a mounting profile (15x25 mm).

Material:	aluminium, extruded
Dimensions (WxH):	25x56 mm
Profile:	C-shaped profile
Surface:	powder-coated, optionally anodised
Fixing:	directly on the facade or in the reveal (type V-FM)
End closure:	plastic, black
Inlay:	co-extruded PVC profile

Window awnings with ZIP guidance, corner solution

Drop profile (5)

Material: aluminium, extruded
Material thickness: 1.5 mm
Dimensions (WxH): large, 35x49 mm
Profile: rectangular, internal beading channel
Surface: powder-coated, optionally anodised
End plug: plastic, black
The drop profile is generally visible. The drop profile can optionally be fitted with a brush seal.

Fixing and connecting parts

Within the awning
Material: A2 steel or aluminium

Colours

Powder coating of the aluminium parts with chrome-free pre-treatment according to valid RAL CLASSIC colour chart (except camouflage and luminous colours) or in DB 701, 702 and 703 as well as eight textured colours (W4914 – W4921), four anodised-look colours (WC31 – WC34) and further colours in accordance with the WAREMA Colour World.
Other colour specifications, special colours and anodisation are available on request at a surcharge.

Construction limit values in mm

	Type of fabric	Motor[1)]
Min. width	Screen fabric	750
Max. width – short side		1200
Max. width – long side		4500
Min. height		650
Max. height		3000[2)]
Max. surface (m^2) – short side		11
Max. surface (m^2) – long side		13

[1)] *only available with motor drive,* **no** *crank drive*
[2)] *Above a width of 3001 mm, the max. height is 2300 mm*

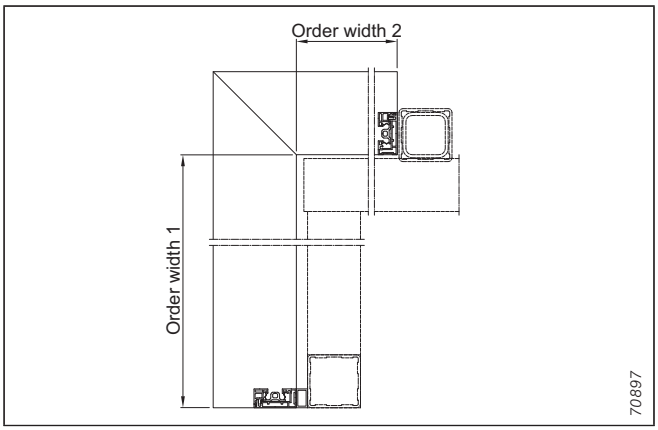


fig. 56: Order widths, corner solution

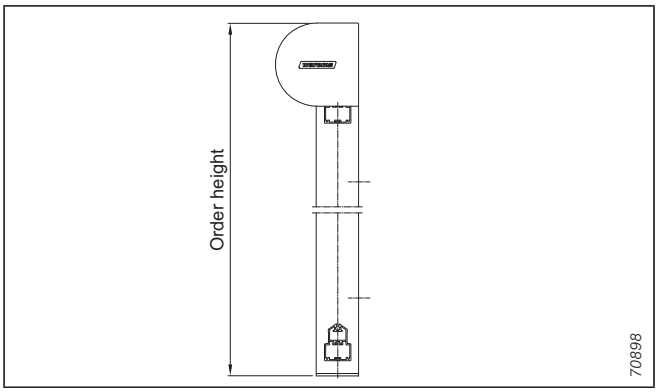


fig. 57: Order heights, corner solution

Number of holes for direct installation

Guide rail length	Fixing holes
– 900	2
901 – 1600	3
1601 – 2300	4
2301 – 2900	5

Window awnings with ZIP guidance, corner solution

Attachment to patio roof

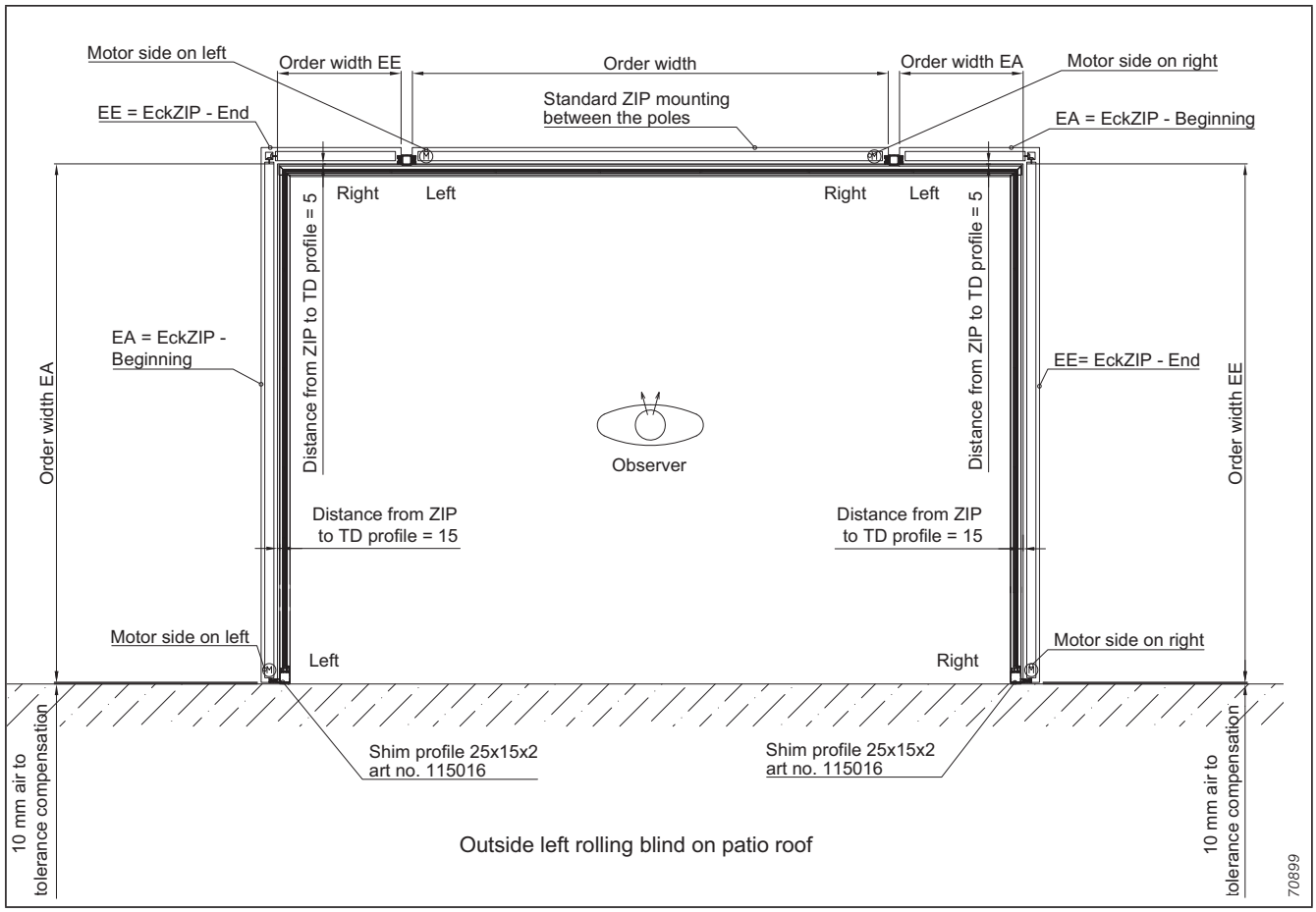


fig. 58: Attachment to patio roof

Mitred corners

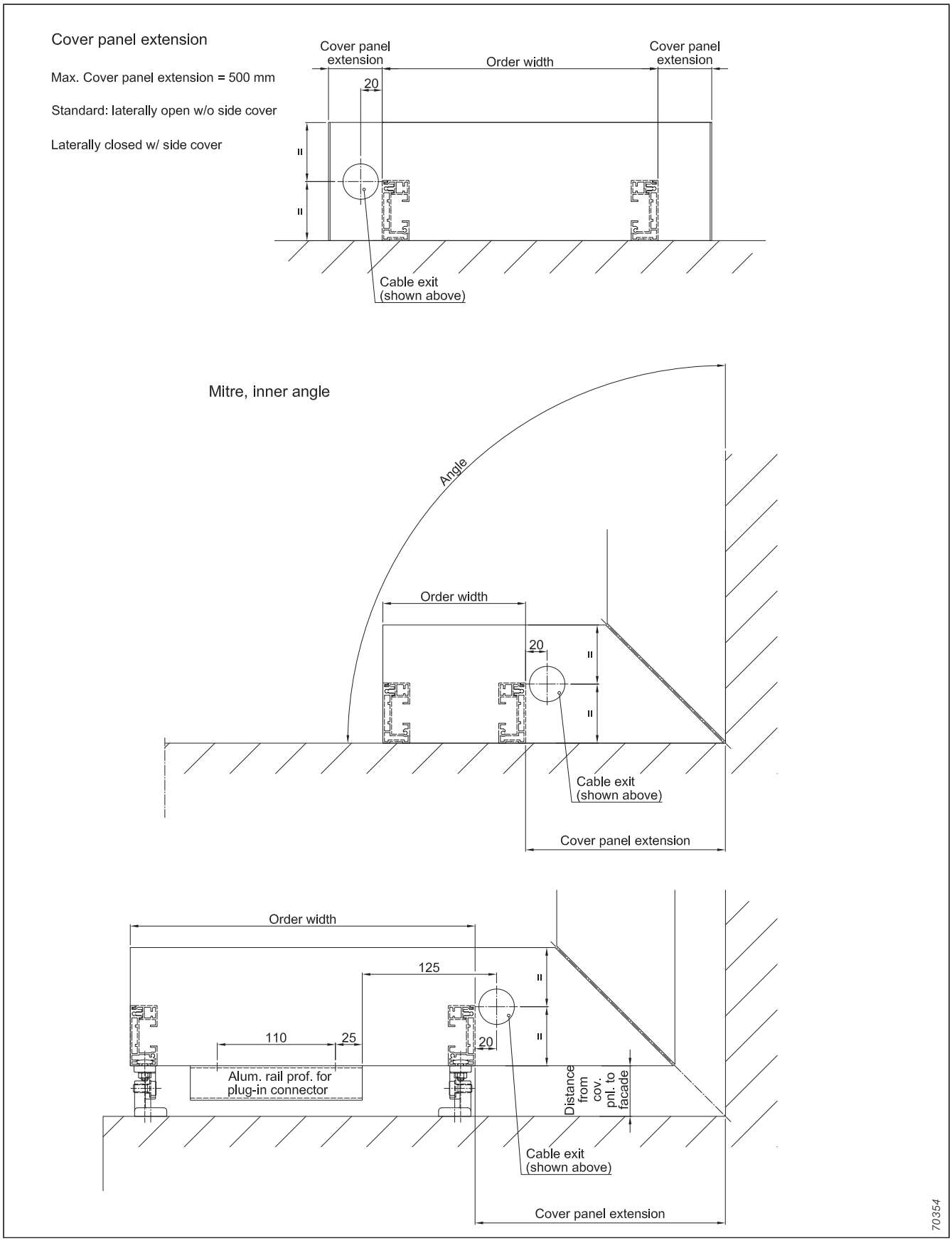
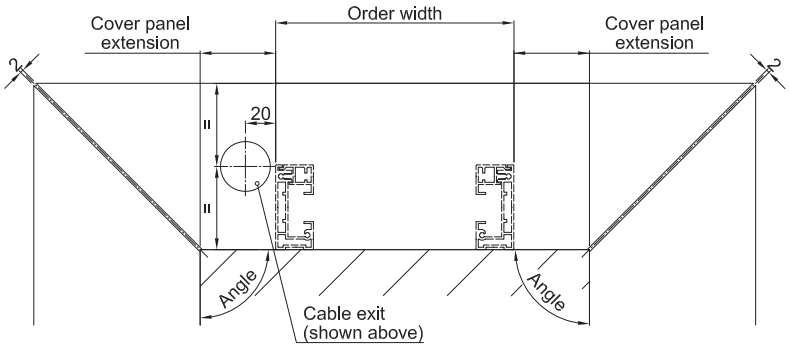


fig. 59: Dimension determination of cover panel overhang and mitred corner

Mitred corners

Mitre, outer angle

Direct mounting



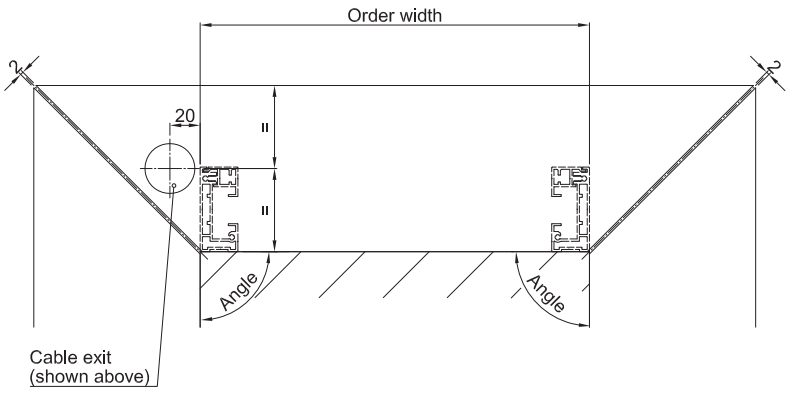


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fig. 60: Dimension determination of cover panel overhang and mitred corner; outer angle; V-FM

Mitred corners

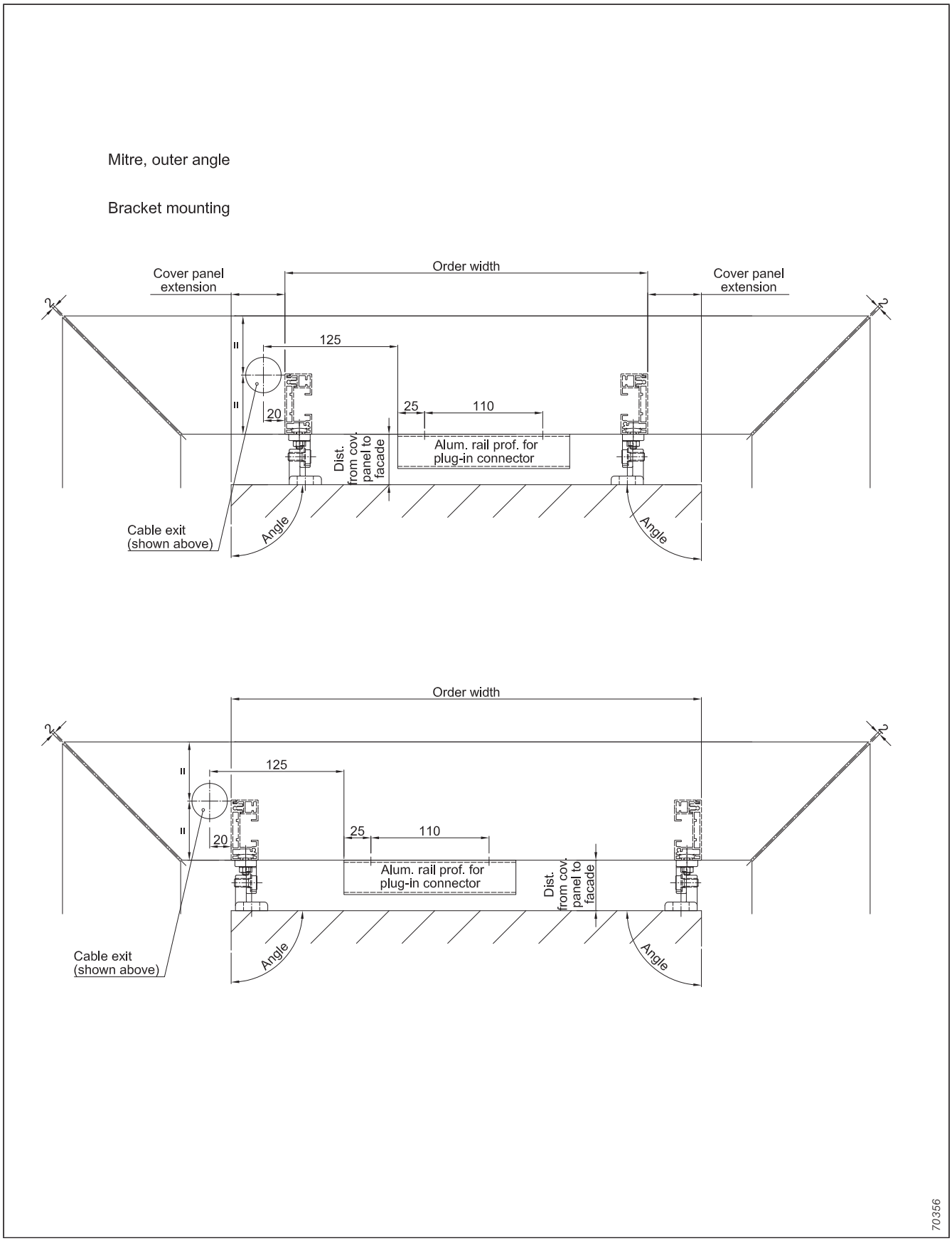

fig. 61: Dimension determination of cover panel overhang and mitred corner; outer angle; F-FM