



The new WAREMA external venetian blind

80 S

PROVEN THINGS
IN PERFECTION



Experience the external venetian
blind 80 S in action!
www.warema.com/80S

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PROVEN THINGS IN PERFECTION

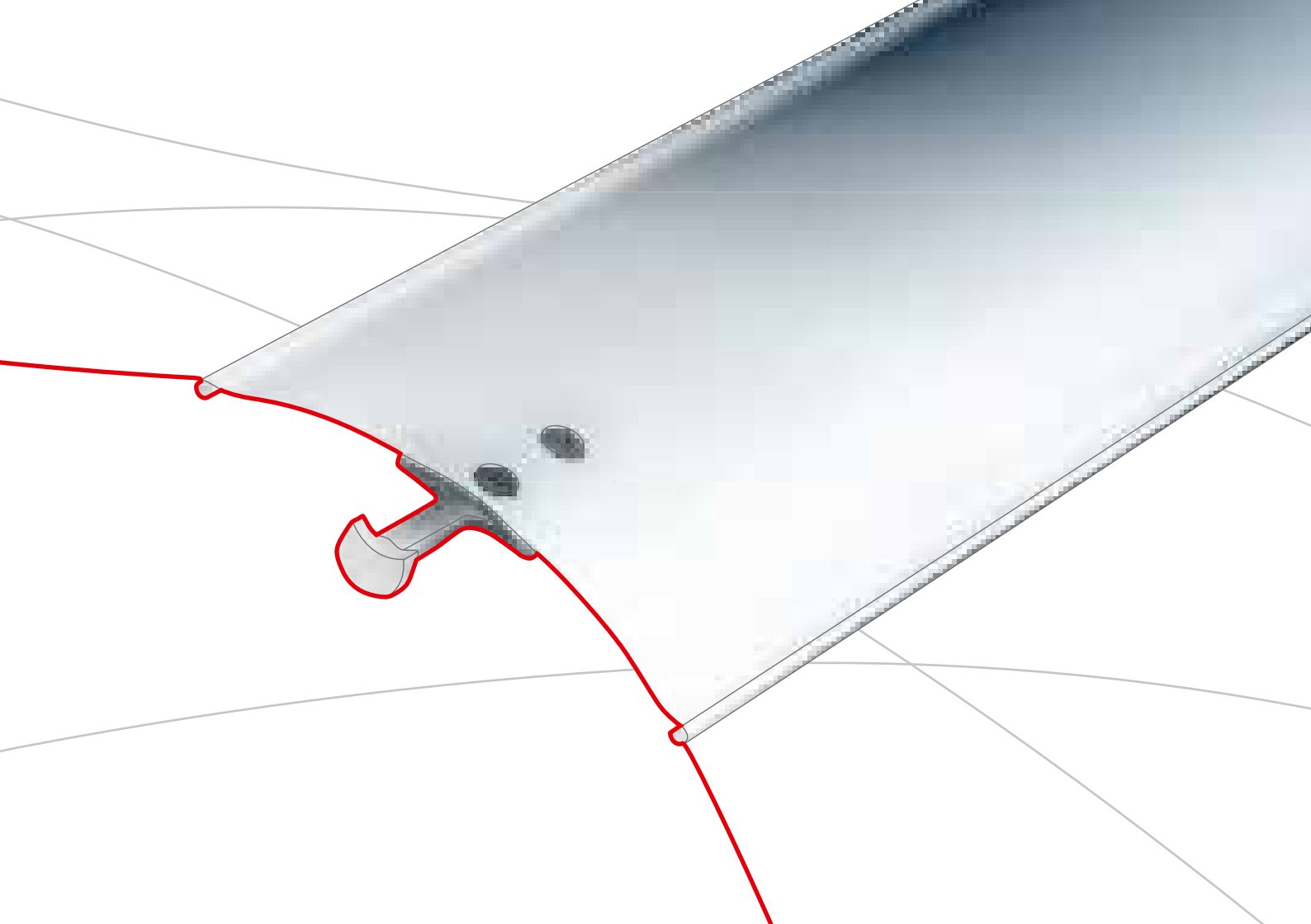
The WAREMA external venetian blind with 80 mm beaded slat in standard version is the most popular external venetian blind on the market. However, also proven things should develop constantly and strive for perfection. The new WAREMA external venetian blind 80 S is the best example how this way of thinking can work. Proven details have been perfected and the product has been adapted to the current needs of the market.



EXPRESSIVE BUT STILL TIMELESS

The new slat size of the 80 S with a reduced diameter of the beading increases the stability and strength of the slat. The guide nipple with high-grade 2 point welding and big counter plate transfers the stability through to the guide rails. The external venetian blinds have a dynamic and expressive effect in classic and timeless design.

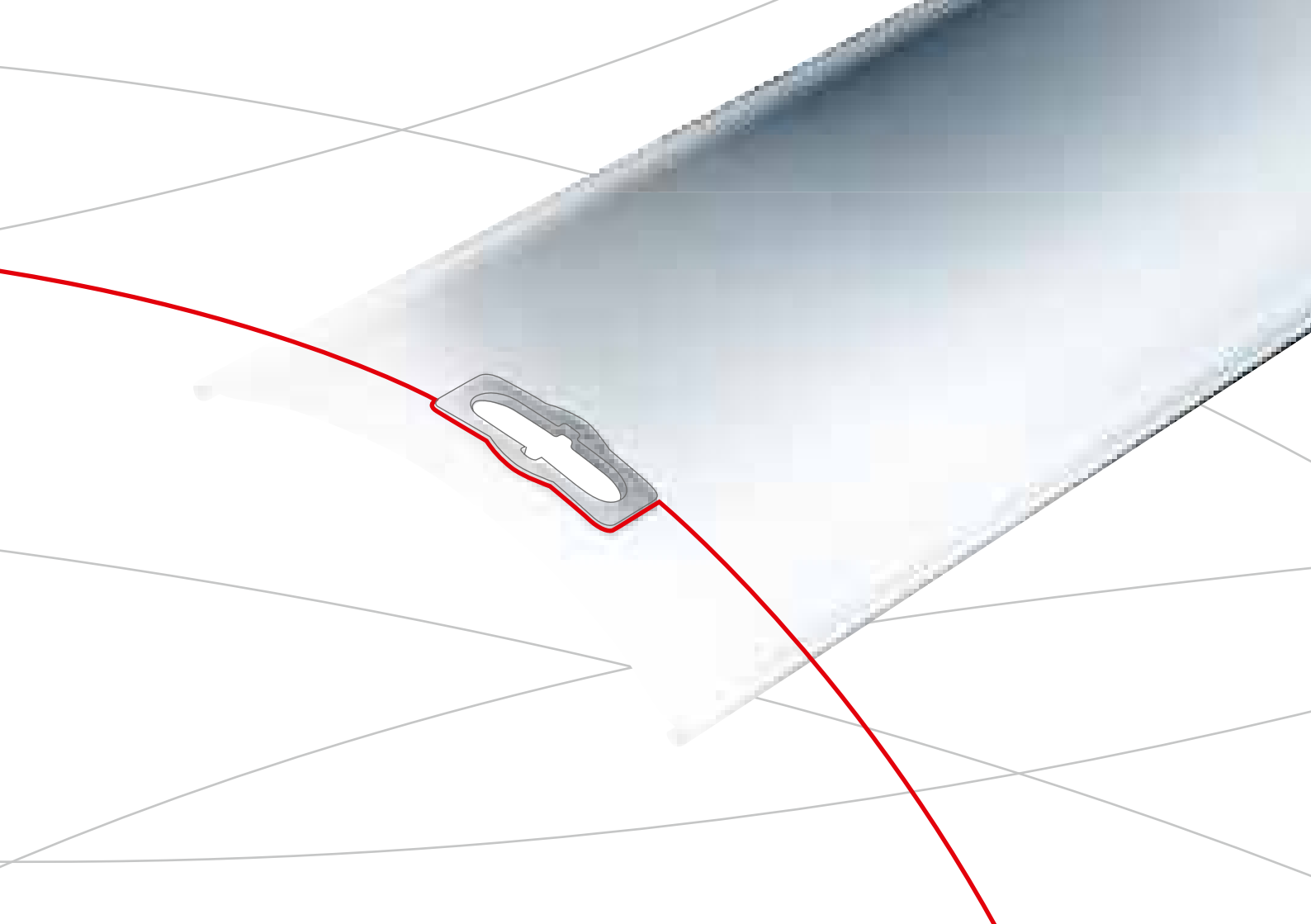




The background features a prominent red curve that starts high on the left and gradually descends towards the right. Several thin, grey, curved lines are scattered across the page, some following the general path of the red curve and others intersecting it at various points. The overall aesthetic is clean and modern.

DELICATE AND STILL STABLE

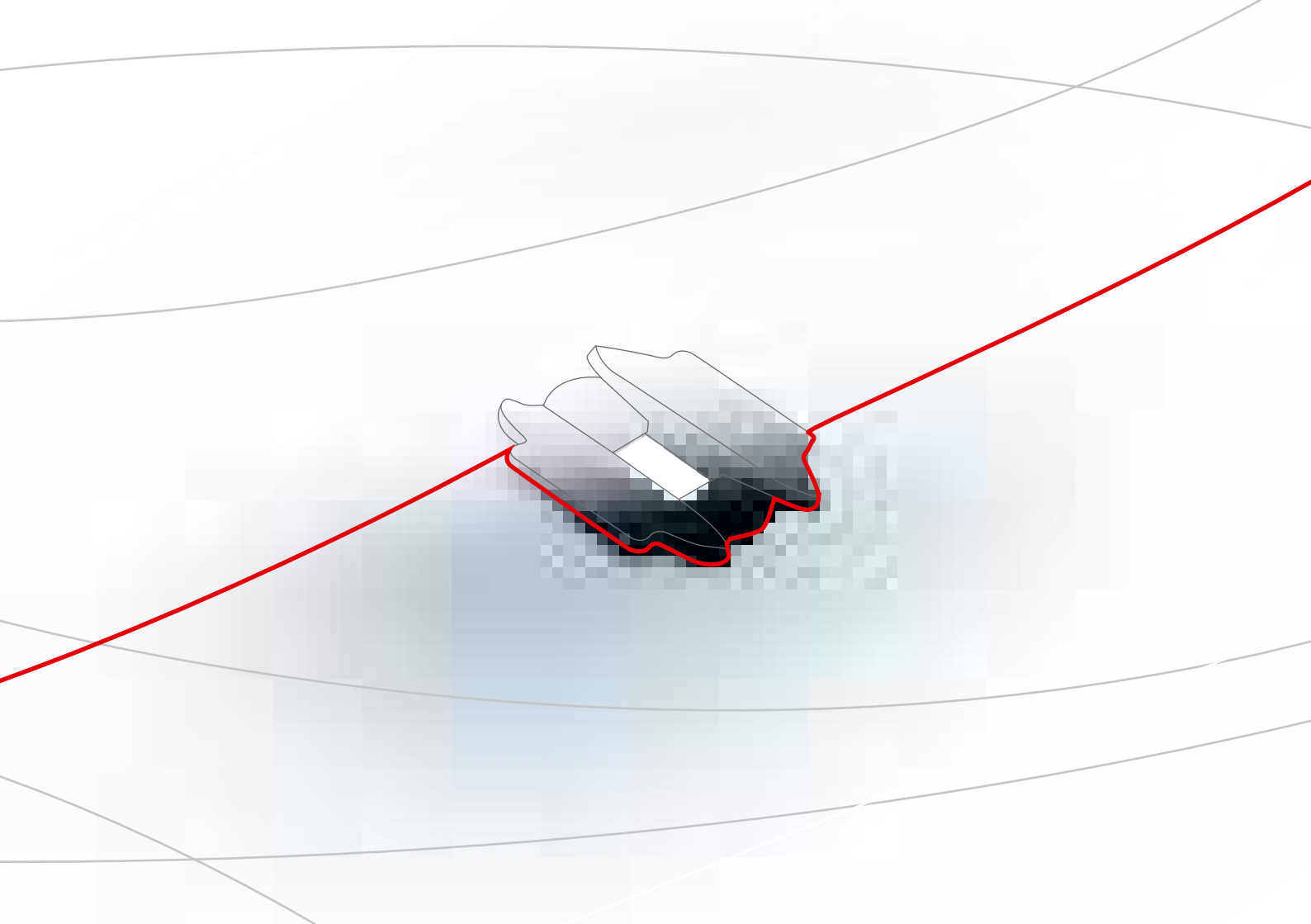
The clearly reduced diameter of the beading sustainably reduces the slat stack height and ensures a more delicate look during view out. The new cable guide eyelet has a positive effect on the slat stack height and simultaneously facilitates a tilting angle as big as possible.





JUST MORE SHADING

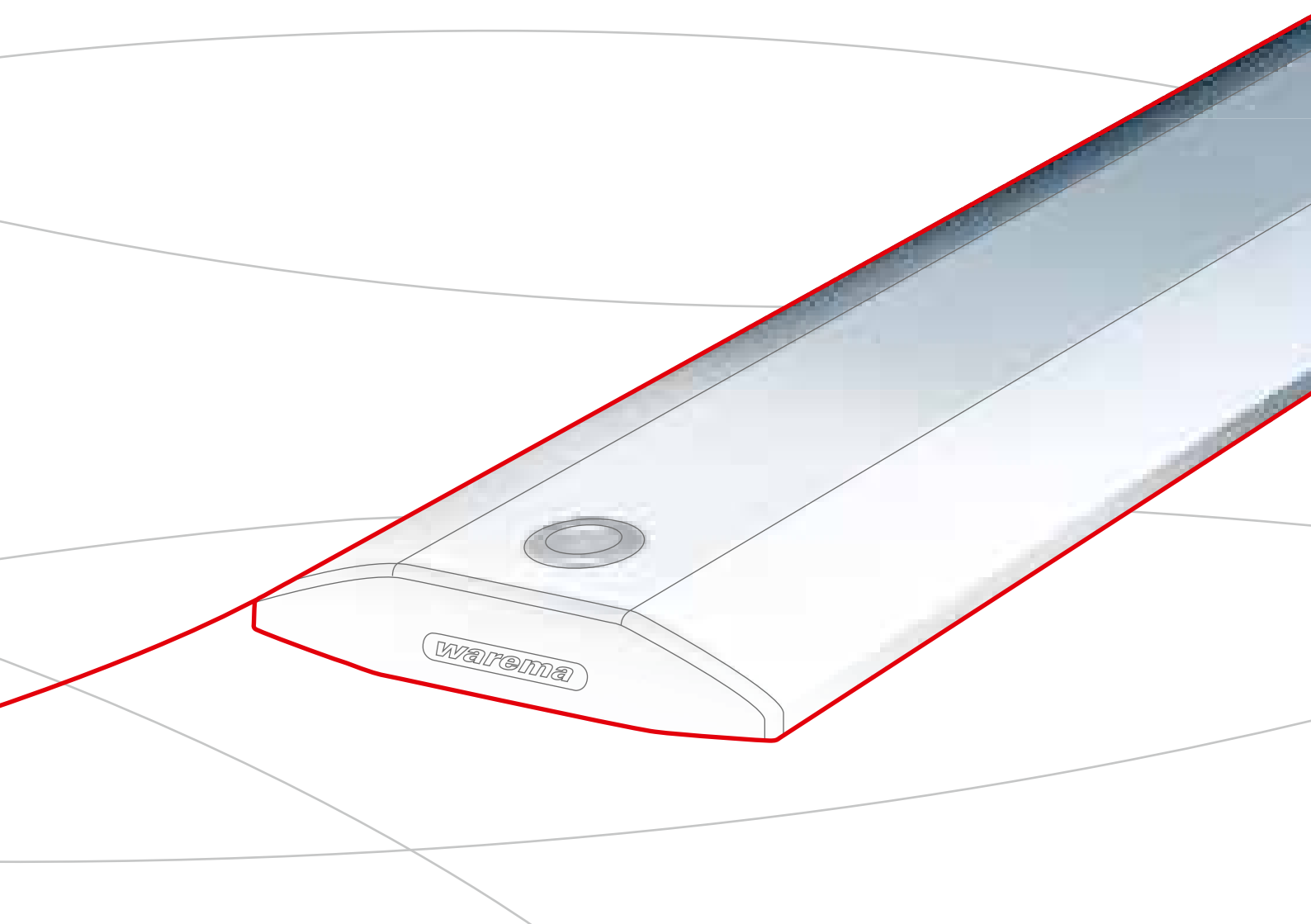
The optimised lift tape eyelets with the smallest outlet openings ensure minimised light points in the interior.





DISCREET AND HIGH-GRADE

The optimised bottom rail is convincing due to its surface with constant stability. At the same time it captivates with its modern and timeless delicate design.

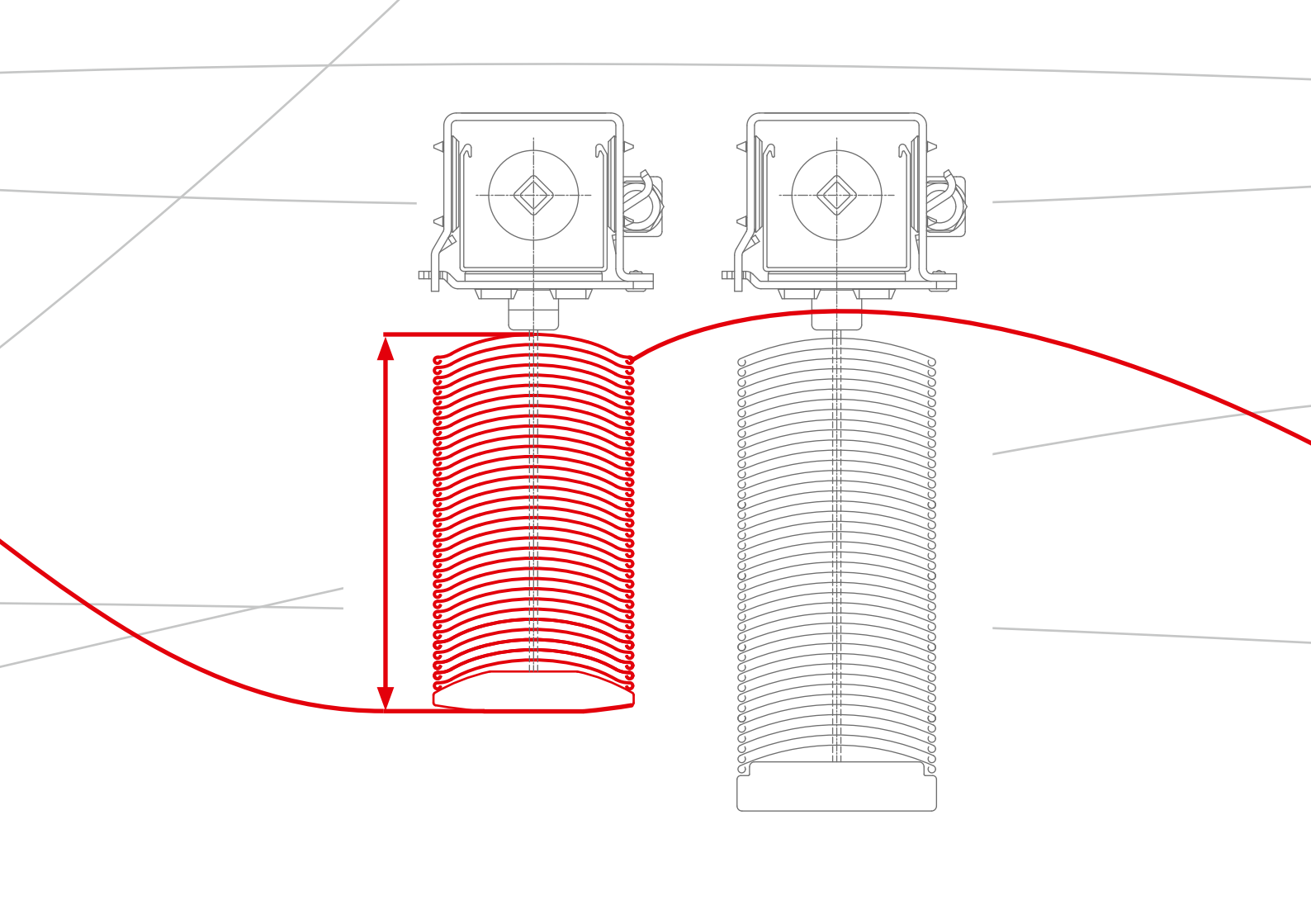


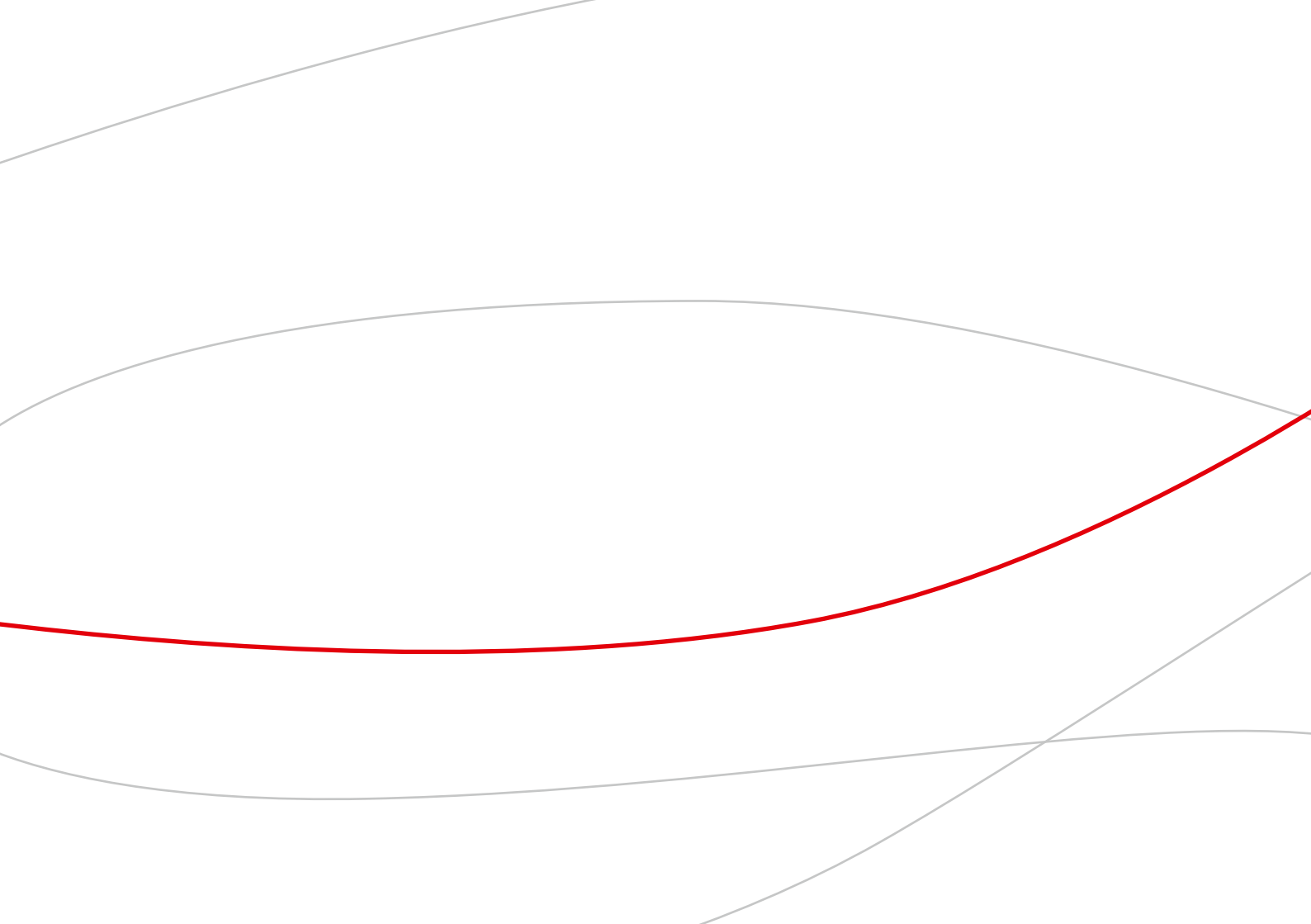
warema

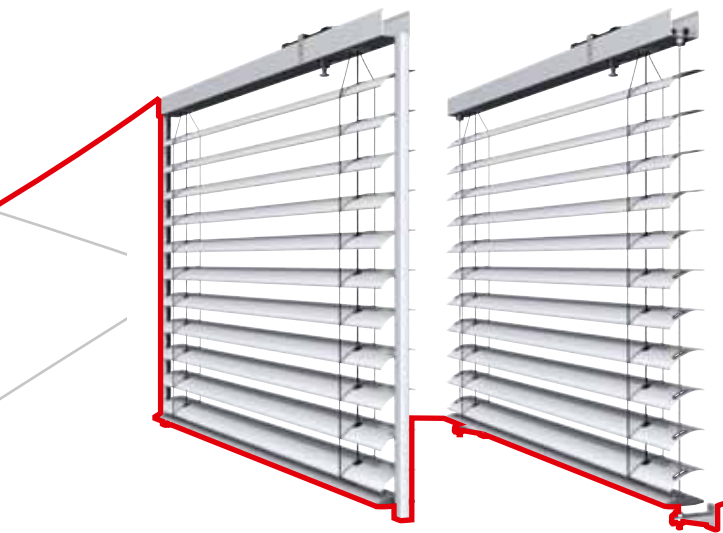
The background features a prominent red arc that spans across the middle of the page. Several thin, grey lines of varying orientations and lengths are scattered across the white background, creating a modern, architectural feel.

POSITIVE EFFECT ON THE ENERGY BALANCE

Thanks to the new slat geometry and the optimised bottom rail the new WAREMA external venetian blind 80 S in standard design offers the smallest external venetian blind package on the market. The lower slat stack height has a positive effect on the energy balance of buildings in the case of shafts which are integrated into the facade. When using visible cover panels there is little influence on the facade view.







The new WAREMA external
venetian blind

80 S

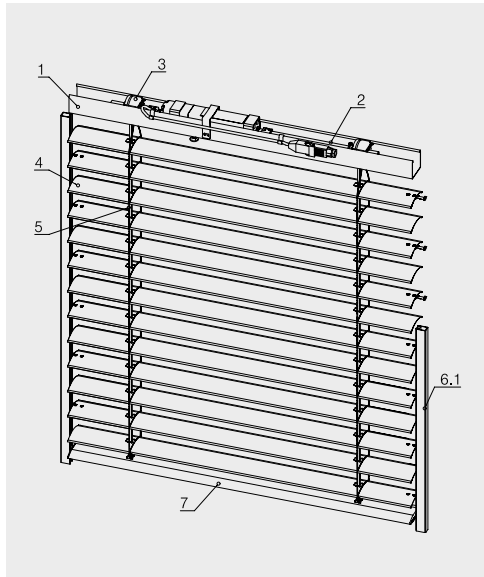
PROVEN THINGS IN PERFECTION



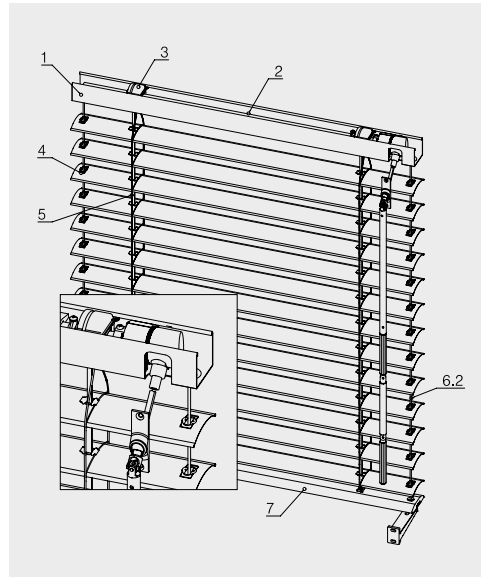


Venetian blind facade system with beaded slats

E 80 A2 S, E 80 A6 S, C 80 A2 S, C 80 A6 S



External venetian blind E 80 A6 S



External venetian blind C 80 A2 S

- 1 Top rail
- 2 Tilt shaft
- 3 Bearing
- 4 Slats
- 5 Tilting tape and lifting tape
- 6 Lateral guidance
- 6.1 Rail
- 6.2 Tension cable
- 7 Bottom rail

Application

For mounting on transom and mullion facades or conservatories, in the reveal or in ventilated facades, in double skin facades, in front of the facade or indoors.

Operation

Motor

The slats are raised and lowered as well as tilted by actuating an operating switch.

Voltage: 230 V AC, other voltages optional

Frequency: 50 Hz, other frequencies optional

Degree of protection: IP 54

Plug connector: Hirschmann coupling

The drive switches off upon reaching the upper or lower limit position using built-in, adjustable limit switches.

Crank

The slats are raised and lowered as well as tilted with the crank.

Crank rod with collapsible crank; sealed joint plate and square with patented thermal separation.

Material: Aluminium

Surface: C0 anodised

Crank holder: plastic, grey, white or brown, crank holder with magnet optional

Top rail

Material: aluminium, extruded

Material thickness: 1.5 mm

Dimensions (w x h): 59 x 51 mm

Profile: C profile

Surface: plain, optionally powder-coated or anodised

Fixing: with noise-optimised top rail brackets made of plain aluminium.

Tilt shaft

Material: Galvanised steel

Material thickness: 1 mm

Dimensions (w x h): 12 x 12 mm

Profile: Square tube

Surface: plain

Bearing

Maintenance-free, enclosed

Enclosure: plastic, with Teflon

Tilting reel: Plastic

Tape reel: Plastic

Segment tilting to prevent self-acting adjustment of slats.

Slats

on both sides optimally beaded with regard to slat stack height, curved

Material: aluminium, special alloy

Material thickness: approx. 0.44 mm

Dimensions (W): 80 mm

Installation: convex

Surface: enamel finish resistant to corrosion using a special process

Colour: according to WAREMA colour chart for external venetian blinds

All cutouts in the slats have black protection eyelets, with an outlet size of 5 x 8 mm, to guide the lift tapes (reduction of wear) and fix the webs of the ladder tape.

The blind moves down with the slats closed to the outside and moves up with the slats closed to the inside.

Tilting tape and lifting tape

Tilting tapes

In special heavy-duty version with double cross ladders

Material: polyester with Kevlar core

Colour: black, optionally grey or white

Each slat is fixed to the top web of the tilting tape and threaded through the double webs.

Lifting tapes

Material: polyester, with special coating

Colour: black, optionally grey or white

Lateral guidance

Rail – A6

With black sealing strips inserted for noise reduction

Material: aluminium, extruded

Dimensions (w x d): 25 x 18 mm, optionally other rail variants

Profile: C profile

Surface: powder-coated, optionally anodised

Fixing: 2-piece guide rail bracket H1, aluminium and plastic

End cap: plastic, black, optionally grey or white

Sealing strip: weather-proof, UV stable, black

Guiding nipple: Polyamide, glass fibre reinforced, impact-resistant connection with the slats, alternatively nippedled

Tension cable - A2

Strand wire

Material:	Steel, resistant to corrosion
Coating:	polyamide
Dimensions (Ø):	3.3 mm
Colour:	black or transparent coating
Fixing:	tension cable bracket S01, aluminium

The cable guides are fixed with a special spring tension device to compensate for thermal changes in the length of the top rail. Cable guidings run trough oblong holes in the slats and the bottom rail. They are fixed to the window or the wall using tension cable brackets.

Bottom rail

With end caps

Material:	aluminium, extruded
Dimensions (w x h):	80 x 15 mm
Surface:	powder-coated, optionally anodised
End caps:	plastic, black

Bottom rail for rail guidance A6 with sliding guiding nipples with slotted end caps to prevent the external venetian blind from unhinging.

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 anodized-look colours (WC31 - WC34) and further colours according to WAREMA standard colour fan (in WAREMA colour specification).

Other colour specifications and special colours are available upon request and at a surcharge.

Construction limit values/Measuring instructions

Venetian blind facade system

Beaded slats with cable or rail guidance

Construction limit values in mm

For external venetian blinds with equipment variant vivamatic® (VM), slowturn (ST) or work setting (AS) the construction limit values of the corresponding basic type should be assumed. Max. 3 curtains are possible here as a coupled unit with one drive.

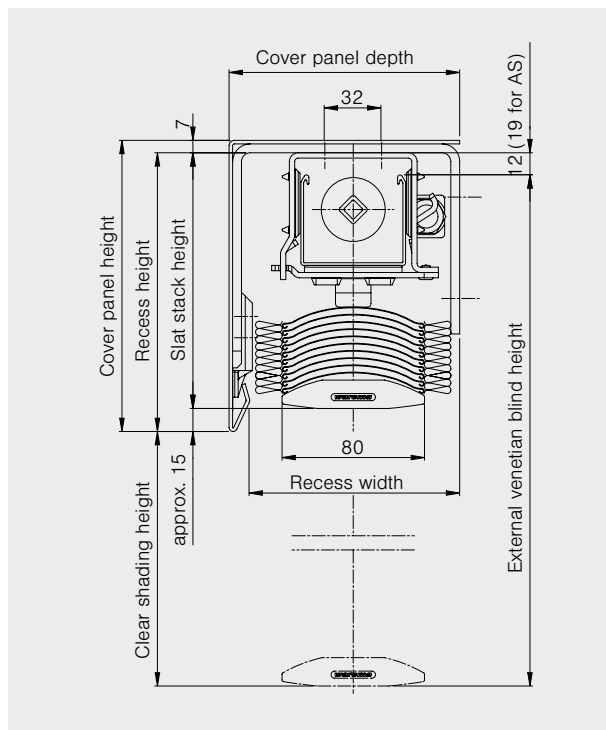
Types	Construction limit values								average weight in kg/m ² ¹⁾
	Individual unit				Coupled units				
	Width ²⁾		Height	Surface ³⁾ in m ²	max. width	Surface ³⁾ in m ²	left/right of driving curtain max. coupl. each side		
	min. ⁴⁾	max.					Surface in m ²	Number of curtains	
C 80 A2 S	450	5000	4000	12	12000	12	12	2	2.7/2.8
C 80 A6 S			5000						
E 80 A2 S	600	5000	4000	20	12000	26-30	13	2	3.0/3.1
E 80 A6 S			5000						

1) Cable force: 450 N per tension cable.

2) Width = slat size, slat size + 65 mm = back edge of the guide rail for FSCH types 1 and 2.

3) The maximum surfaces indicated depend on the height in each case.

4) Sloped running of the slats cannot be prevented for small widths.



Measuring instructions external venetian blinds C/E 80 A2 S/A6 S

Measuring instructions

Slat stack height from the table

Slat stack height with work setting (AS) + 7 mm

Recess height = slat stack height + 15 mm

Cover panel height = slat stack height + 20 mm

Types	Min. recess width	Cover panel depth min.
80 A2 S/A6 S	120	130

Number of guide cables for 80 A2 S

Order width	Cable guidances
less than 3 m	2
from 3 m	3
from 4 m to 5 m	4

When ordering, please indicate positioning of additional cable guiding (starting inside from the left)!

For model A6 we recommend an additional cable guide at the centre of the blind for external venetian blind widths > 3000 mm.

Slat stack heights in mm

Slat stack height determined using external venetian blind height

Types	External venetian blind height in mm																				
	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000
E 80 A2 S / E 80 A6 S	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350

Slat stack height determined using clear shading height

Types	Clear shading height in mm																		
	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600
E 80 A2 S / E 80 A6 S	159	169	180	191	201	212	222	233	243	254	264	275	285	296	306	317	327	338	348

Slat stack heights are approximate values. For technical reasons, they might be higher or lower.

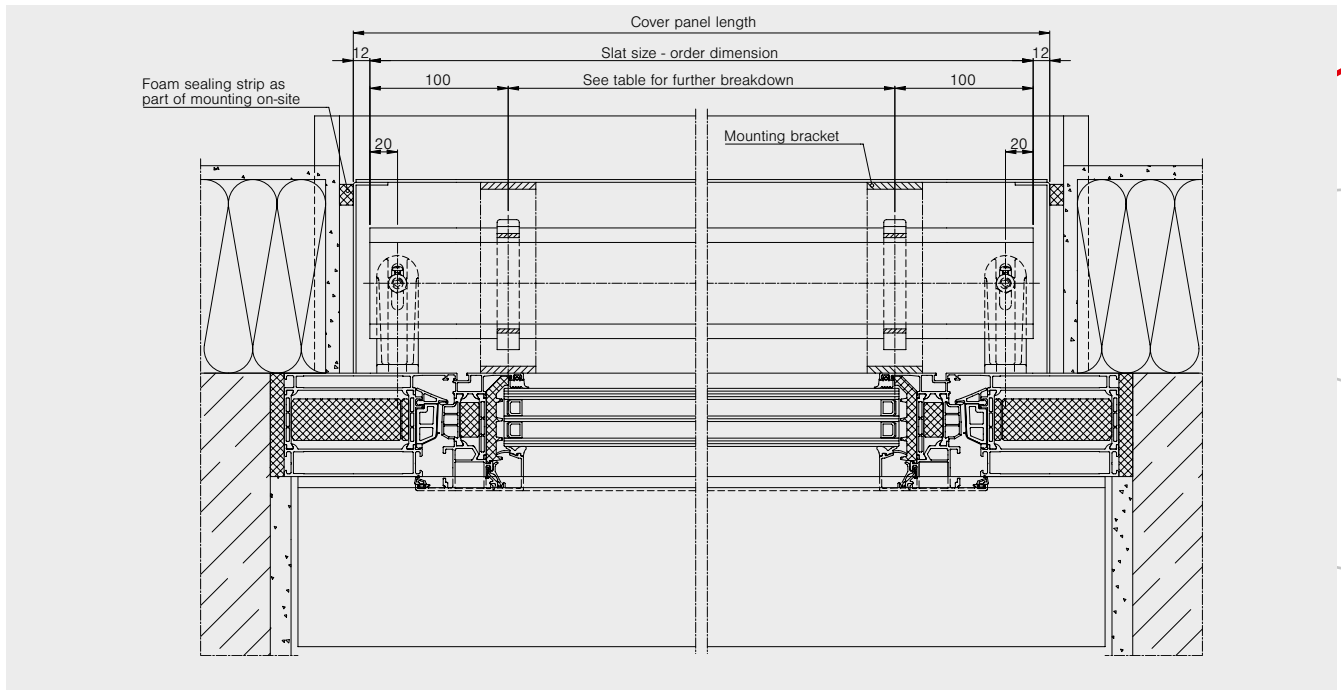
External venetian blinds with crank drive: Slat stack height is reduced by 20 mm.

External venetian blinds with work setting: Stack 7 mm higher, top rail support Art. No. 551012

**Construction limit values for venetian blind window system,
top-mounted external venetian blinds for new buildings as well
as front-mounted external venetian blinds in mm**

Types	Cover panel / Box height	Individual units						Combination		
		Width		Height			Surface in m ²	Width	Surface in m ²	Number of curtains
				max.	Order height with- out stack protrusion in mm	approx. protrusion per 100 mm additional height in mm				
		min.	max.		max.	max.	max.	max.		
Venetian blind window system 1 - 4										
E 80 A6 S	230	680	4000	4000	2200	5	16	4000	16	3
E 80 A6 S	260				2800					
E 80 A6 S	300				3600					
Top-mounted external venetian blinds for new buildings										
E 80 A6 S	300	680	4000	4000	3500	5	16	4000	16	3
Front-mounted external venetian blinds										
R6 without insect screen										
E 80 A6 S	16.5	680	4000	4000	2600	5	16	6000	24	3
E 80 A6 S	18.5				3000					
R10 without insect screen										
E 80 A6 S	16.5	680	4000	4000	2600	5	16	6000	24	3
E 80 A6 S	18.5				3000					
R10 with insect screen										
E 80 A6 S	16.5	710	2000	2500	2100	5	5	6000	15	3
E 80 A6 S	18.5				2500					

Venetian blind facade system
Beaded slats with cable guidance
E 80 A2 S with angular cover panel

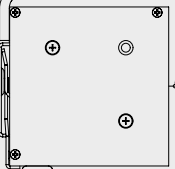
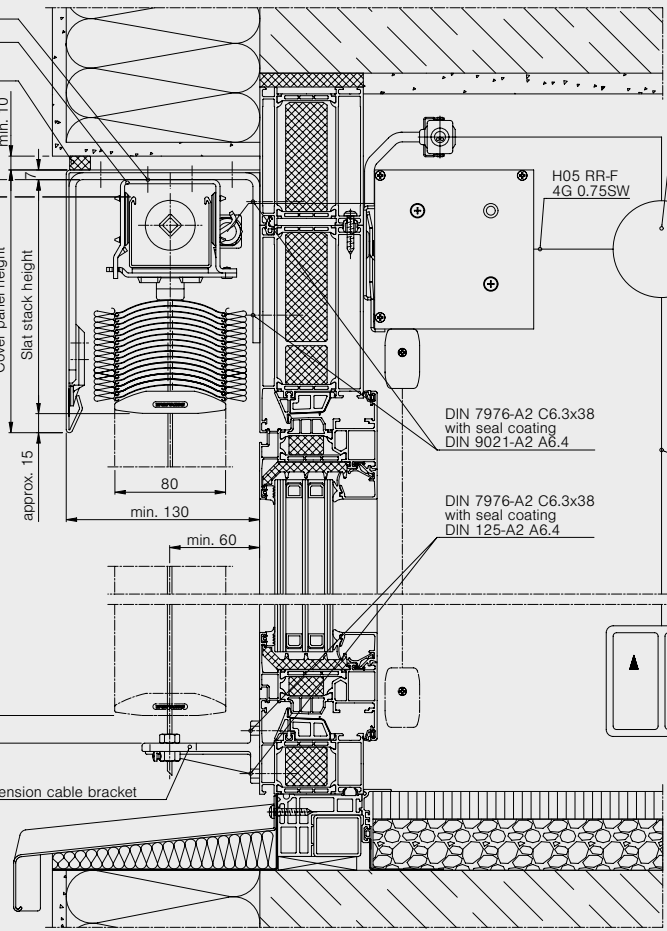


DIN 7985-A2 M5x8
Bracket
Foam sealing strip as
part of mounting on-site

min. 10.
12
Cover panel height
Slat stack height
External venetian blind height
approx. 15

min. 130
80
min. 60

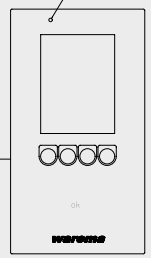
approx. 20
Tension cable bracket



DIN 7976-A2 C6.3x38
with seal coating
DIN 9021-A2 A6.4

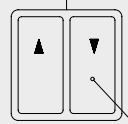
DIN 7976-A2 C6.3x38
with seal coating
DIN 125-A2 A6.4

Device connection socket Wisotronic



230V, 50Hz, 10A

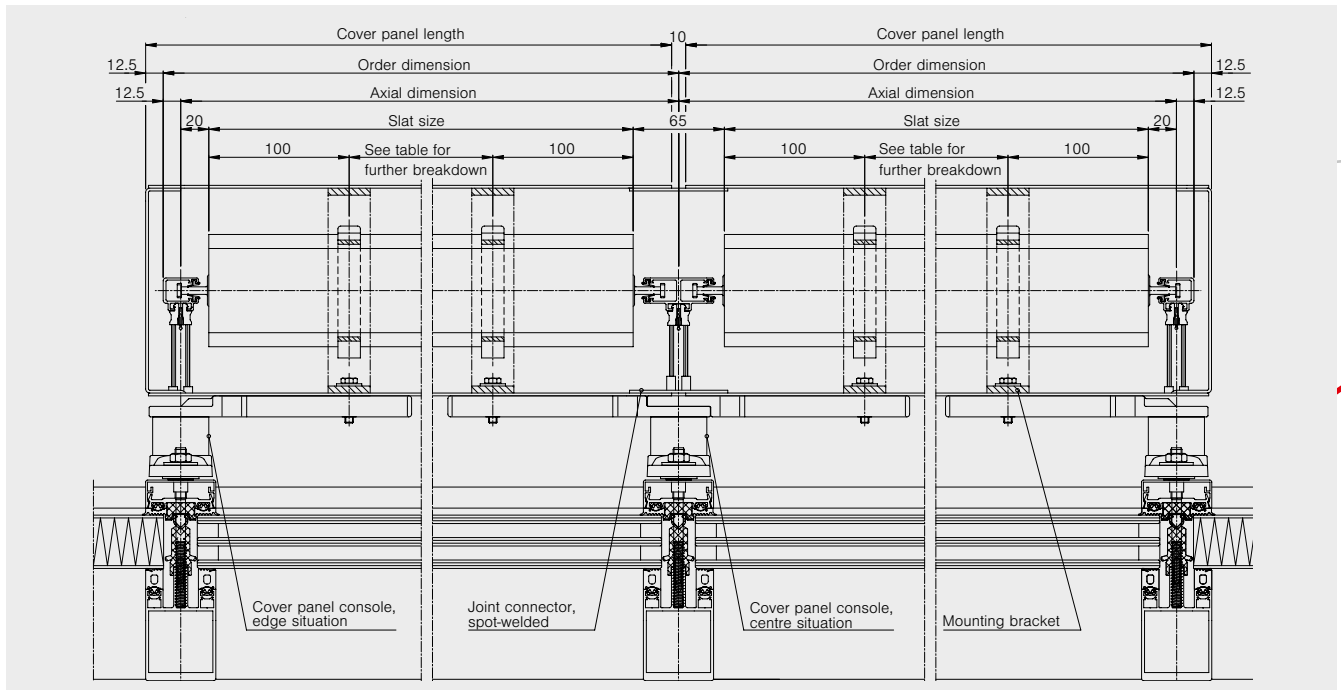
NYM-J 4x1.5mm²

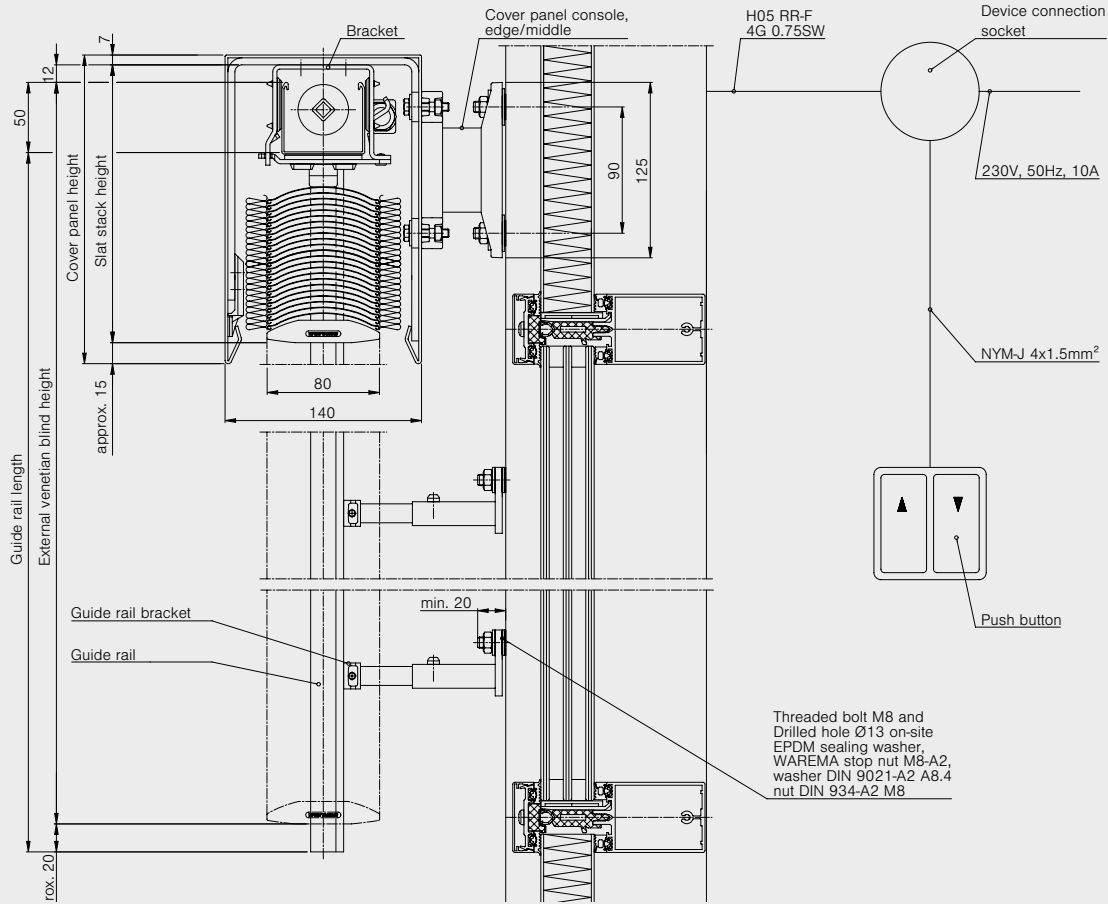


Push button

Venetian blind facade system

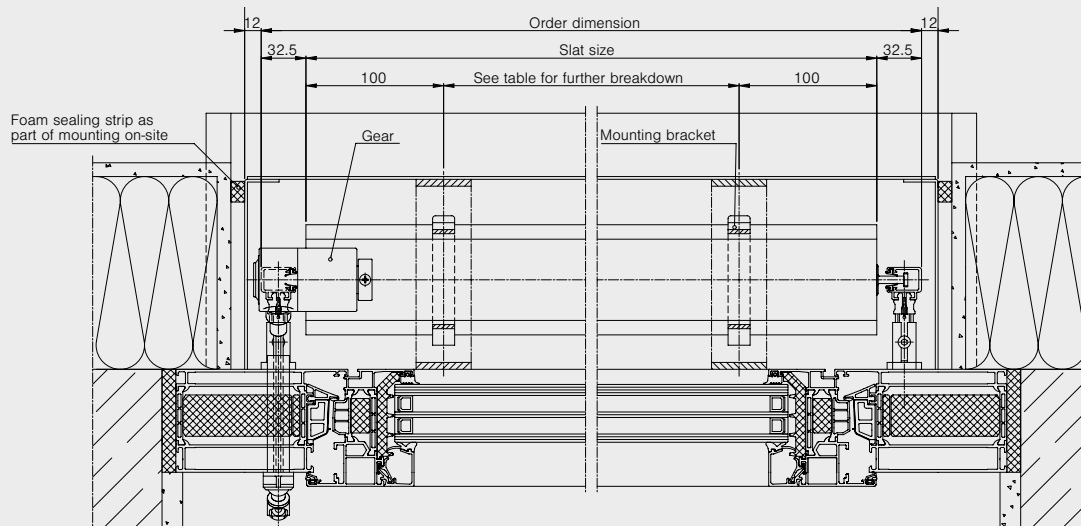
Beaded slats with rail guidance E 80 A6 S with U-shaped cover panel at transom and mullion facade





Venetian blind facade system

Beaded slats with rail guidance C 80 A6 S
with angular cover panel



DIN 7985-A2 M5x8

Bracket

Foam sealing strip as part of mounting on-site

min. 10
12
Cover panel height
Slat stack height
33
approx. 15

Guide rail length
External venetian blind height

approx. 20

DIN 7976-A2 C6.3x38
with seal coating
DIN 9021-A2 A6.4

Guide rail bracket

Guide rail

80

min. 130

min. 60

DIN 7976-A2 C6.3x38
with seal coating
DIN 9021-A2 A6.4

ø16 on site

DIN 7983 C4.2x13

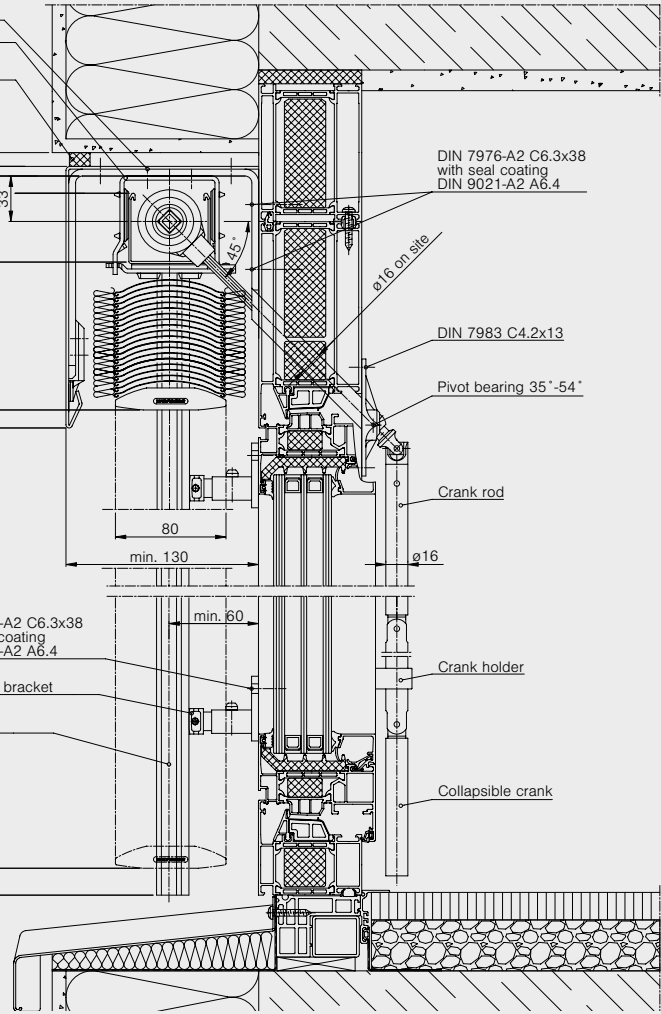
Pivot bearing 35°-54°

Crank rod

ø16

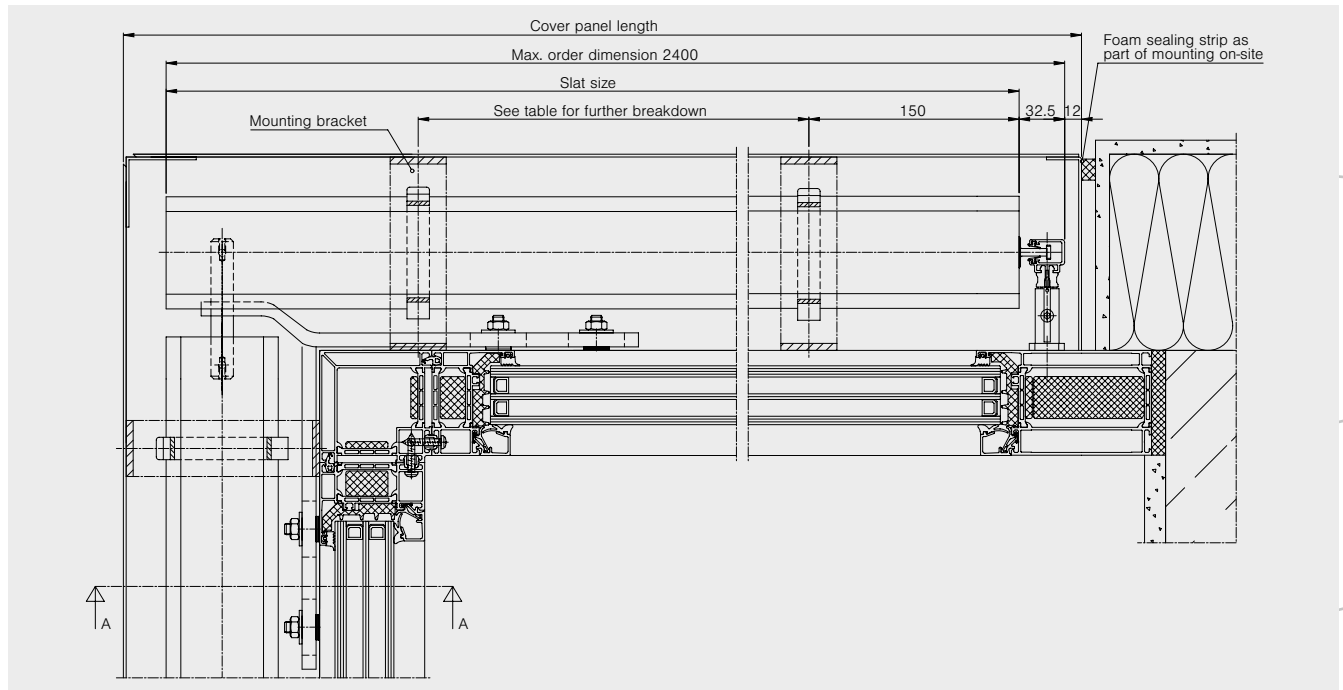
Crank holder

Collapsible crank



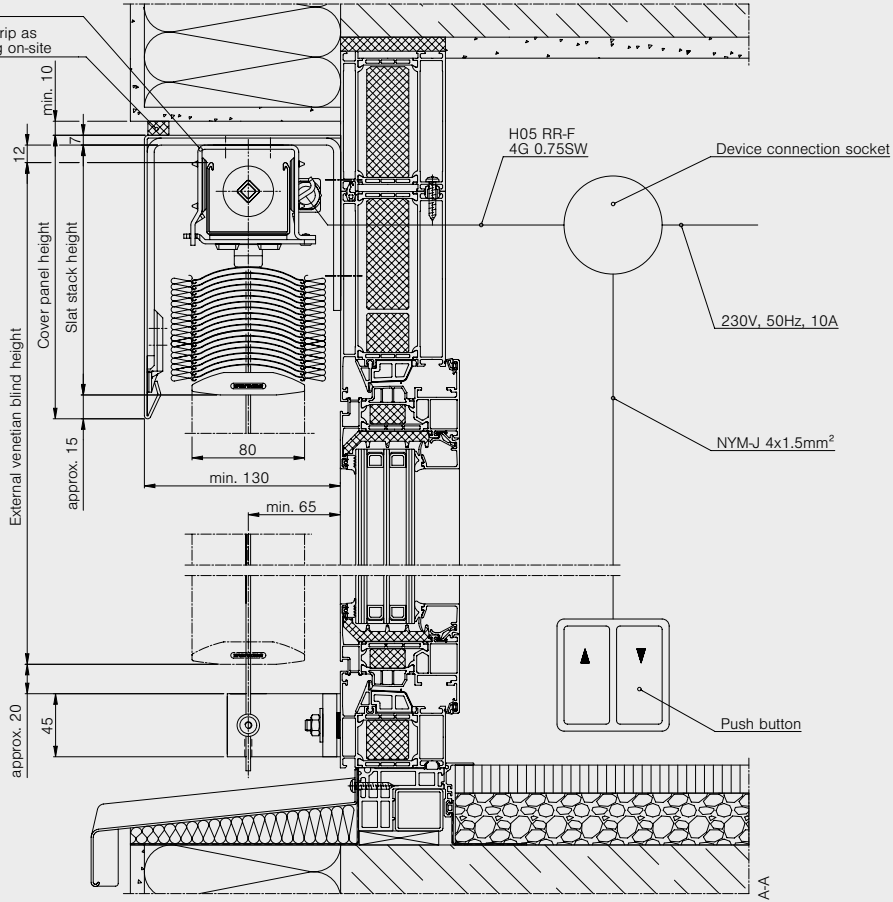
Venetian blind facade system

Beaded slats with rail and cable guidance E 80 A2 S/
A6 S with angular cover panel - corner position



Bracket

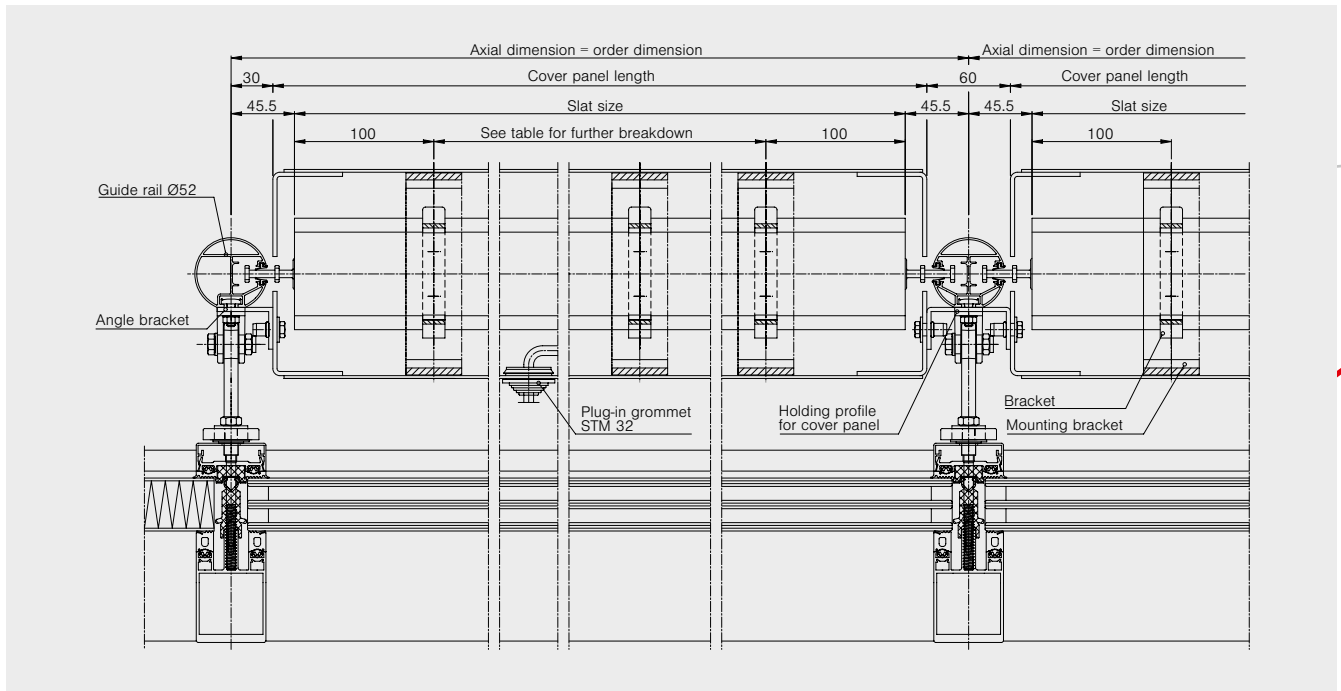
Foam sealing strip as part of mounting on-site

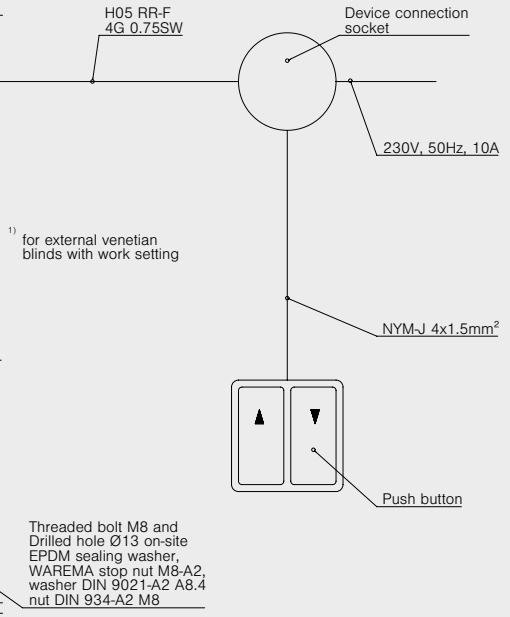
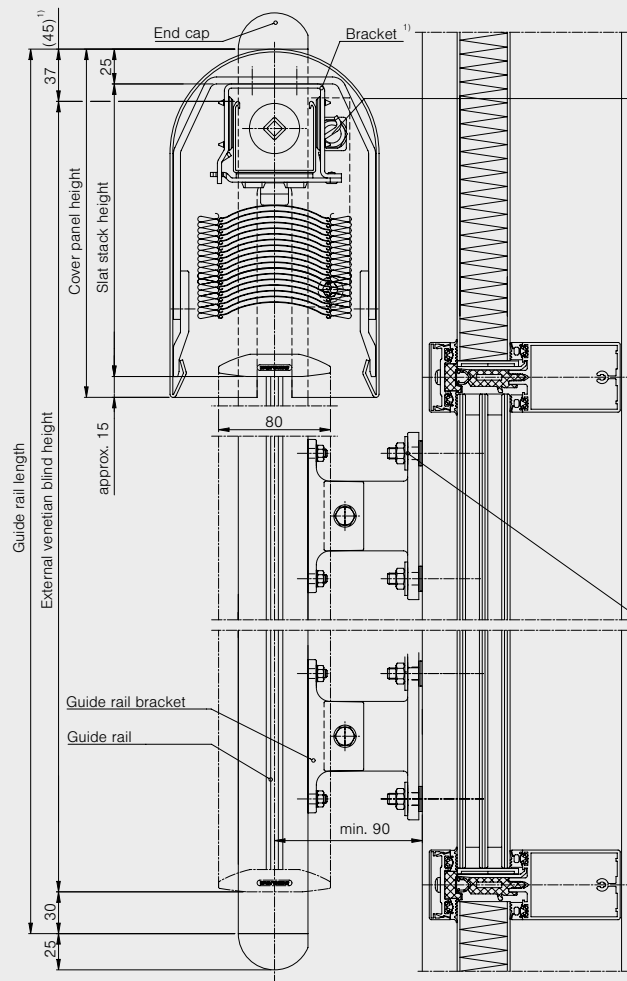


A-A

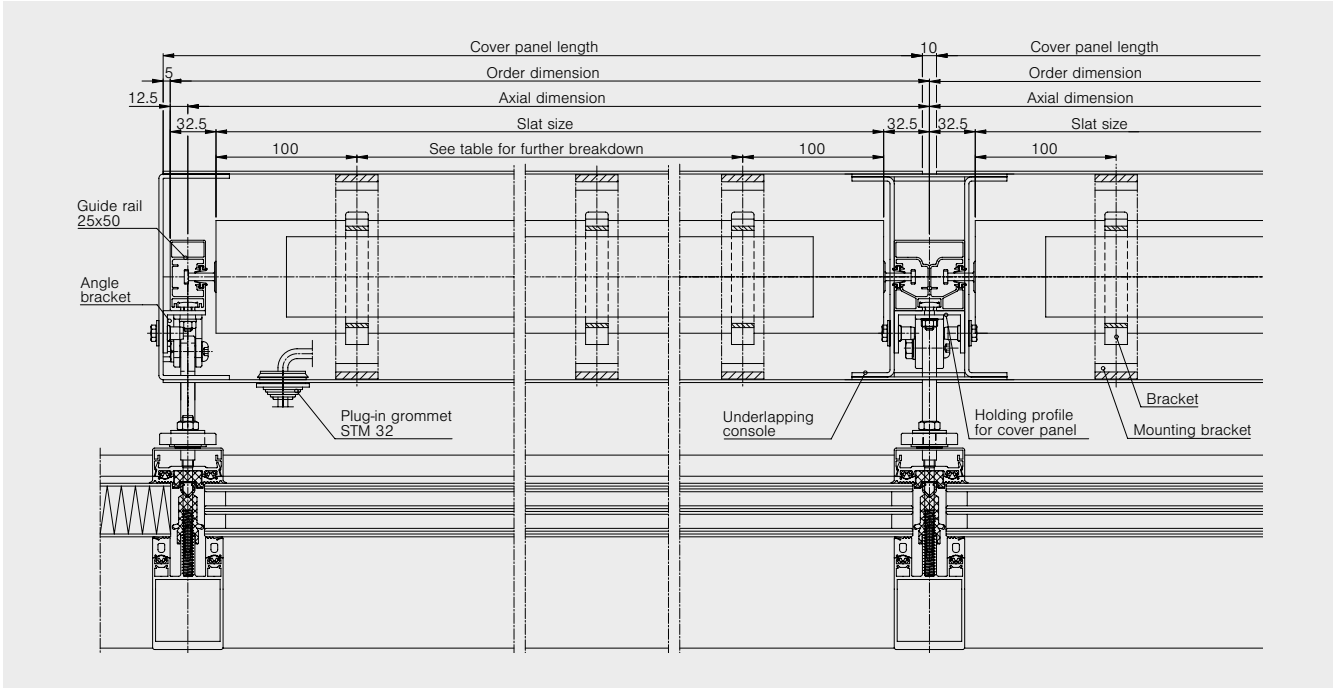
Self-supporting external venetian blinds

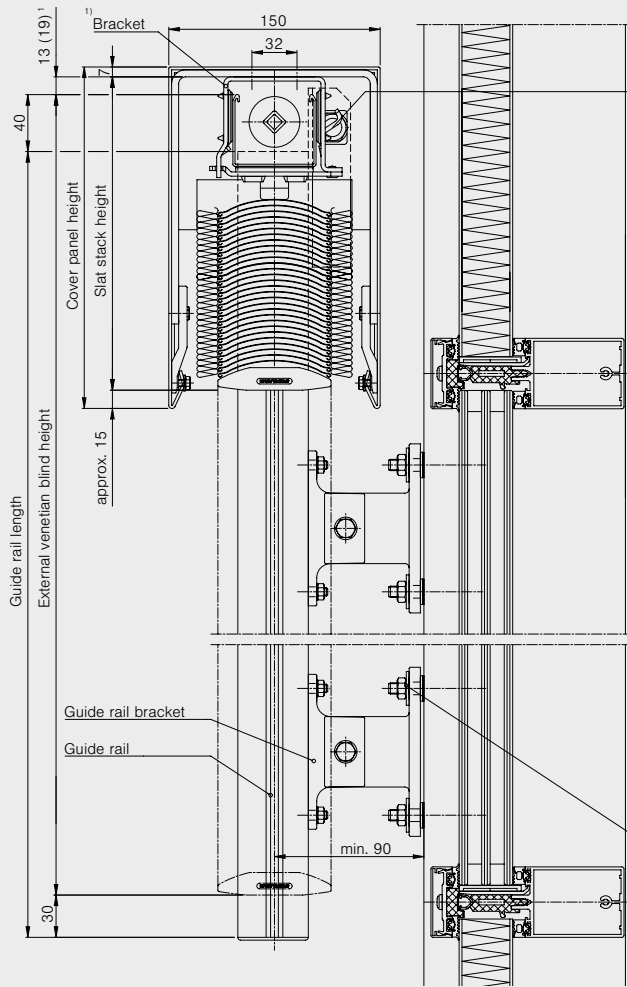
Cover panel mounting between the guide rails E 80 A6 S with round-shaped cover panel on transom and mullion facade





Self-supporting external venetian blinds
 Cover panel mounting on the guide rails E 80 A6 S
 with U-shaped cover panel at transom and mullion
 facade





H05 RR-F
4G 0.75SW

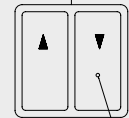
Device connection socket

230V, 50Hz, 10A

NYM-J 4x1.5mm²

Push button

Threaded bolt M8 and
Drilled hole Ø13 on-site
EPDM sealing washer,
WAREMA stop nut M8-A2,
washer DIN 9021-A2 A8.4
nut DIN 934-A2 M8



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