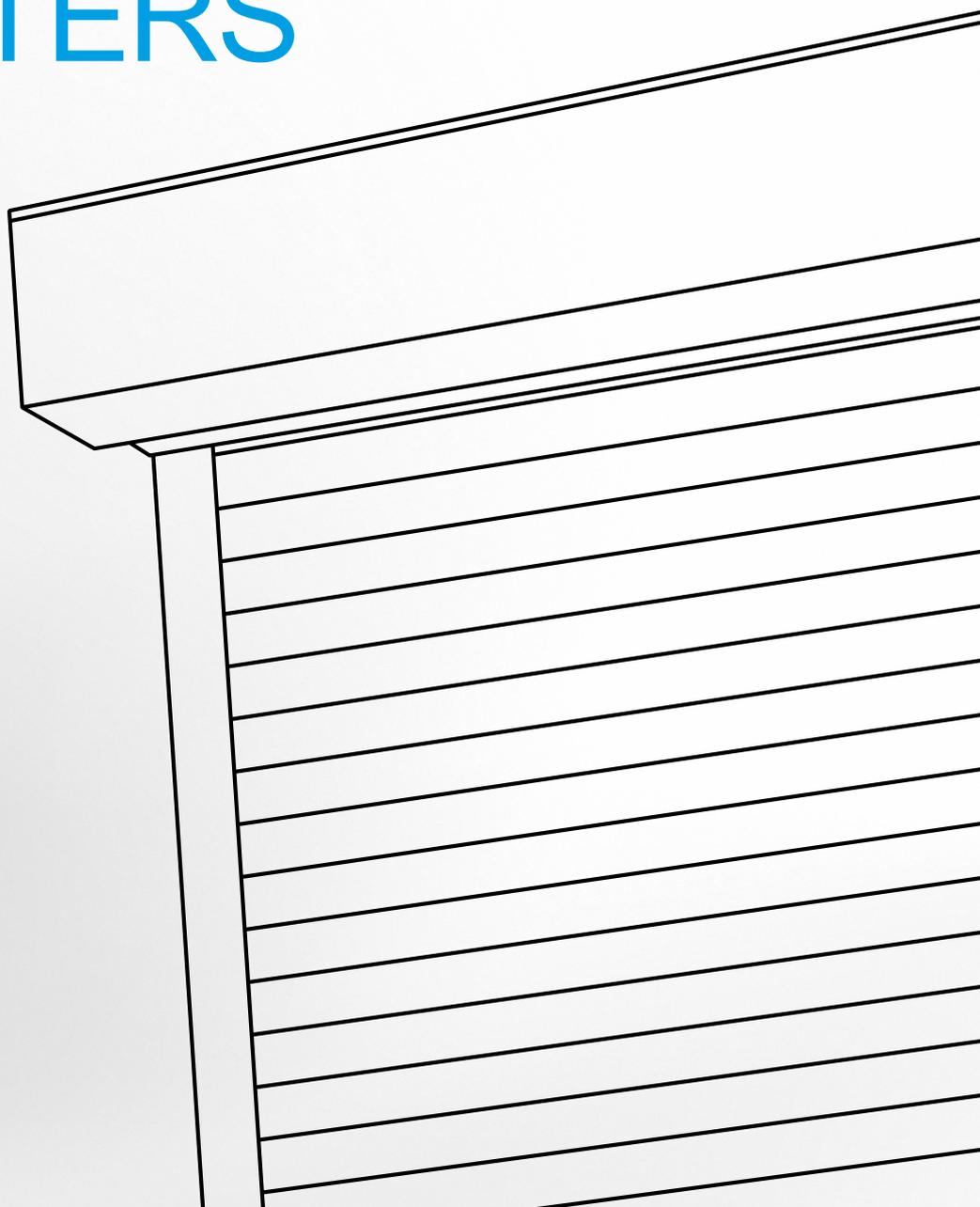




TECHNICAL MANUAL

# EXTERNAL ROLLER SHUTTERS



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Products in this assortment group are always measured from the interior.

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## **ISOTRA** *Quality*

A brand symbolizing years of tradition, innumerable investments into research and development, use of high-quality materials, technological advancement, reliable work of hundreds of employees and many more parameters, which together form one whole - the final product of the company ISOTRA.

## CE Product Marking

All external roller shutters of ISOTRA a.s. comply with the standard ČSN EN 13659:2007

European Marking of CE Compliance – marking on products:



European Marking of CE Compliance – marking in the accompanying commercial documents:

<b>CE</b>	<b>CE</b>	<b>CE</b>	<b>CE</b>
ISOTRA a.s. Bílovecká 2411/1, 746 01 Opava 07	ISOTRA a.s. Bílovecká 2411/1, 746 01 Opava 07	ISOTRA a.s. Bílovecká 2411/1, 746 01 Opava 07	ISOTRA a.s. Bílovecká 2411/1, 746 01 Opava 07
<b>EN 13659:2015</b> <b>VIVERA</b> <b>CPR 020/2017</b> External sun visor Wind resistance: 0 - 6 Additional thermal resistance $\Delta R$ : 0,18 m <sup>2</sup> .K/W Total transmittance Solar energy $g_{tot}$ : 0,026 - 0,08	<b>EN 13659:2015</b> <b>HELUZ</b> <b>CPR 021/2017</b> External sun visor Wind resistance: 0 - 6 Additional thermal resistance $\Delta R$ : 0,18 m <sup>2</sup> .K/W Total transmittance Solar energy $g_{tot}$ : 0,026 - 0,08	<b>EN 13659</b> <b>ROLOSA</b> <b>CPR 056/2024</b> External sun visor Wind resistance: 0 - 6 Additional thermal resistance $\Delta R$ : 0,18 m <sup>2</sup> .K/W Solar energy $g_{tot}$ : 0,026 - 0,08	<b>EN 13659</b> <b>SALVIS</b> <b>CPR 057/2024</b> External sun visor Wind resistance: 0 - 6 Additional thermal resistance $\Delta R$ : 0,18 m <sup>2</sup> .K/W Solar energy $g_{tot}$ : 0,026 - 0,08

## Standard EN 13659 – Control Force Limitation for Manual Control

The roller shutter armoring weight depends on the slat weight values (kg per m<sup>2</sup>) and the total roller shutter area (m<sup>2</sup>).

Use of Slat	m <sup>2</sup>	M 317; M 328; MY 442											M 317; MY 442		MY 442			
		0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5
Slat Type	kg/m <sup>2</sup>	roller shutter armoring weight (kg)*																
<b>M 317</b>	<b>2,80</b>	1	3	4	6	7	8	10	11	13	14	15	17	18				
<b>M 328</b>	<b>2,60</b>	1	3	4	5	7	8	9	10	12	13	14						
<b>MY 442</b>	<b>2,85</b>	2	3	5	7	9	10	12	14	16	17	19	21	22	24	26	28	29

\* The roller shutter armoring weight is rounded!

Control	Maximum Armoring Weight (kg)
Cord	5
Tape	9
Winder with crank tape/cord	9
Crank	15
Crank	15
Motor	29

Selection of control type based on roller shutter armoring weight (kg)

	m <sup>2</sup>	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5
Slat Type	kg/m <sup>2</sup>																	
<b>M 317</b>	<b>2,80</b>	6	6	6	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	4,5	4,5	4,5	4,5	4,5	5	5				
<b>M 328</b>	<b>2,60</b>	6	6	6	6	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	4,5	4,5	4,5	4,5						
<b>MY 442</b>	<b>3,45</b>	6	6	6	1,2,3,4,5	1,2,3,4,5	4,5	4,5	4,5	5	5	5	5	5	5	5	5	5

Explanatory Notes

Tape	1
Cord	2
Winder with tape/cord	3
Crank	4
Motor	5
All control types	6

## PRODUCT TOLERANCES

Manufacturer: **ISOTRA a.s., Bílovecká 2411/1, 746 01 Opava, IČ: 47679191**

Product: **EXTERNAL ROLLER SHUTTERS**

The review should help you to recognize the permissible limits of compliance and incompliance. At the same time the sheet will help you with reasoning as regards any unjust claims of the clients.

External roller shutters comprise of many metal and textile elements with various material features and production tolerances. Despite the optimally selected products, deviations from ideal function may occur even in case of new installation due to the product tolerances.

The external roller shutters are permanently exposed to the effect of weather, particularly temperature, moisture content, wind, and contamination. They have a great effect on the function and appearance of external blinds.

The deviations from the table values can be corrected by our technicians within a specific scope.

**Please, be aware:**

The specified limit values are created based on the actual state of technology, respective technical standards, and based on many years of experience.

The table values are valid only for the external roller shutters within the permitted production dimensions available in our actual technical catalogue.

	Feature	Description of deviation	Tolerance
1	Roller shutter width	Roller Shutter up to 2000 mm	+0, -3mm
		Roller Shutter from 2000 mm to 4000 mm	+0, -4mm
		Roller Shutter over 4000 mm	+0, -5mm
2	Roller shutter height	Roller Shutter height up to 1500mm	+0, -4mm
		Roller Shutter height from 1500 mm to 2500 mm	+0, -6mm
		Roller Shutter height over 2500 mm	+0, -10mm
3	Slats curvature	Deviation form the balance	max. 15mm
4	Slats slope run	Deviation form the balance	+/- 10mm
5	Roller shutter run time	Permanent length of the motor	max. 4min
6	Light permeability – as per EN 14501	In closed state, there is no horizontal view from outside inside.	permissible
		In closed state, there is no horizontal view from inside outside.	permissible
7	Acoustics	The operation and disconnection sounds result from technical solutions.	permissible
		Noise as per the wind force.	permissible

## Vivera

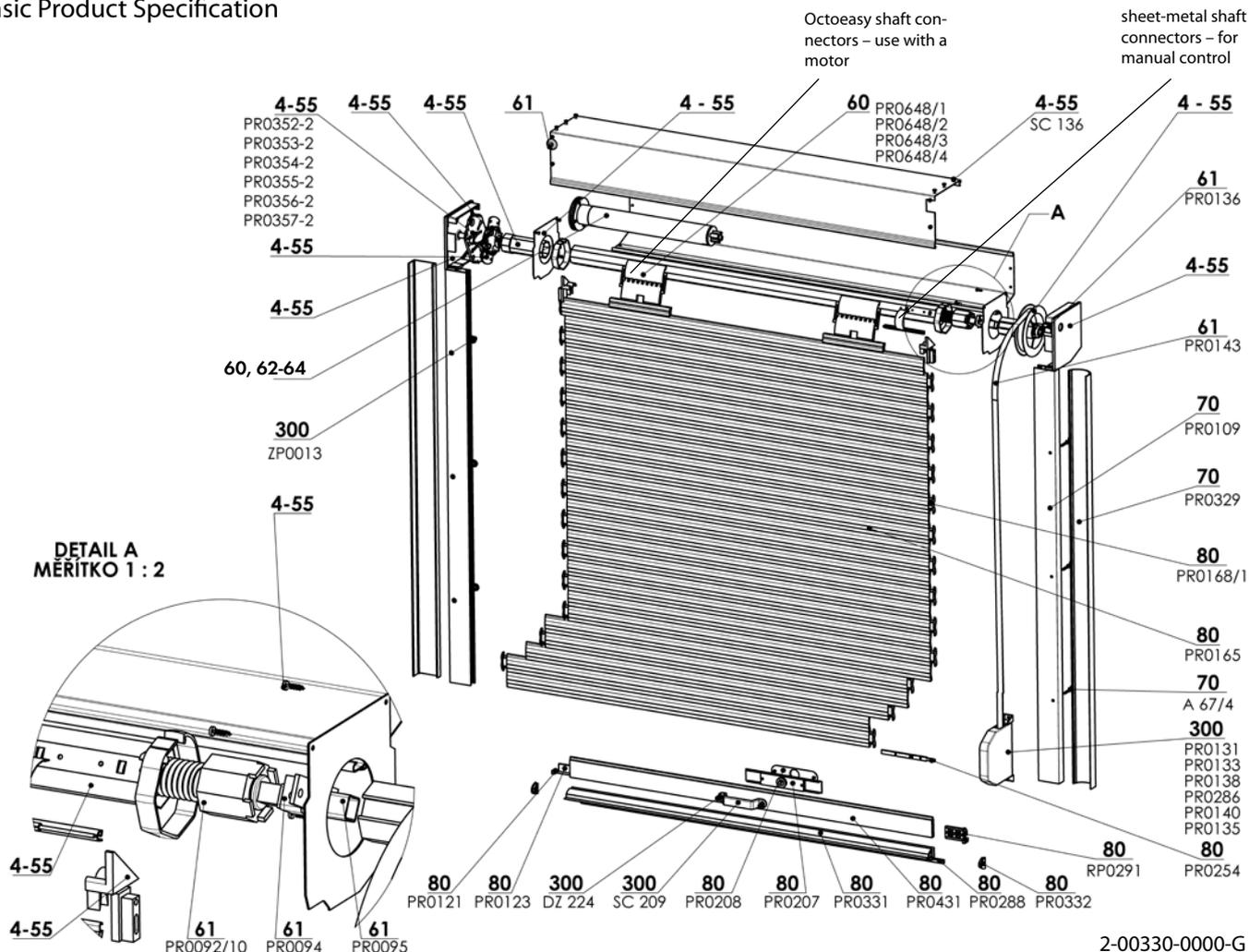


- ▲ High degree of shading and outside noise level reduction
- ▲ Electrical control option
- ▲ Suitable for additional installation on window frame or façade and for plastering under façade heat-insulating system too
- ▲ Aluminum profiles filled with PUR foam
- ▲ Optional design with integrated insect screen

**ISOTRA** *Quality*

# Vivera / Vivera-Sectra External Roller Shutter

## Basic Product Specification



### Control

- Cord** - used for pulling the roller shutter up and down. White or brown  $\varnothing$  4.5 mm cord.
- Handle** - used for pulling the roller shutter up and down. Handle – made of plastic material and steel ( $\varnothing$  15.5 mm or  $\varnothing$  13 mm tube). Handle passage at the angle of 45° or 90°.
- Tape** - used for pulling the roller shutter up and down. White or brown 14 mm wide tape.
- Spring** - used for pulling the roller shutter up and down. The shutter is controlled manually, whereas the blind is wound back by a pre-stressed spring, installed in the crank. Shaft with a diameter of 40 mm. It is required to use slats without apertures in the lock.
- Crank cord winder** - used for pulling the roller shutter up and down. White or brown color.
- Crank tape winder** - used for pulling the roller shutter up and down. White or brown color.
- Motor** - with the torque of 4–20 Nm, mounted in the octagonal rod with diameter of 40 mm or 60 mm. One motor can control more roller shutter simultaneously based on the roller shutter dimensions.

### Standard dimensions

#### Vivera

Slat	Control	Width (mm)		Height (mm)		Guaranteed area (m <sup>2</sup> )
		min.	max.	min.	max.	max.
M328	cord, tape	450	2700	800	4350	3,5
	handle, motor	450	2700	800	4350	5,8
	spring	-	-	-	-	5,6 (17 kg)
M317	cord, tape	450	2900	800	4340	3,2
	handle, motor	450	2900	800	4340	6,5
MY442	motor	450	4000	800	2860	8,5

### Standard dimensions

#### Vivera-Sectra

Slat	Width (mm)		Height (mm)		Guaranteed area (m <sup>2</sup> )
	min.	max.	min.	max.	max.
M328, M317, MY442	450	1800	800	2500	3

When indicating the height of box for motor operated ROLLER SHUTTER, we have to know that the box is suitable for ROLLER SHUTTERS 100mm less height than the standard for handle operation is.

Maximum width of underplaster common box for outside roller shutters is 4 m and 5,5 m for visible box.

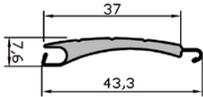
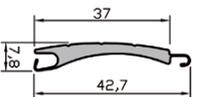
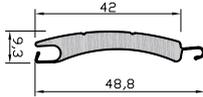
## VIVERA (2-00330-0000)

Position	Item name	Business name	Drawing number
<b>4-55</b>	<b>Covering boxes</b>		<b>2-00337-XXXX</b>
4-55	Rivet Al 4x10 Din 7337 A	SC 136	6-002680-XXXX
<b>60</b>	<b>Motors (SOMFY) EXTERNAL ROLLER SHUTTERS</b>		<b>2-00534-0000</b>
60	Octoeasy suspension - single-cell, shaft 40 mm, box 125-165	PR0648/1	6-013917-0000
60	Octoeasy suspension - single-cell, shaft 60 mm, box 125-165	PR0648/2	6-013918-0000
60	Octoeasy suspension - double-cell, shaft 40 mm, box 180-205	PR0648/3	6-013919-0000
60	Octoeasy suspension - double-cell, shaft 60 mm, box 180-205	PR0648/4	6-013920-0000
<b>61</b>	<b>Manual control</b>		<b>2-00790-0000</b>
61	Tape 14 mm brown/grey	PR0143/XXXX	6-001916-XXXX
61	Tape roller - white / brown	PR0136/XXXX	6-001920-XXXX
61	OCTO spring 40 - 600 mm	PR0092/10	6-002684-0000
61	Spring holder MINI for max. 30 kg	PR0094	6-002693-0000
61	Reduction for VR30	PR0095	6-002694-0000
61	Rubber cable, plastic, black		6-017078-0000
<b>62</b>	<b>Motors (GEIGER) EXTERNAL ROLLER SHUTTERS</b>		<b>2-00565-0000</b>
<b>63</b>	<b>Motors (BECKER) EXTERNAL ROLLER SHUTTERS</b>		<b>2-01297-0000</b>
<b>64</b>	<b>Motors (ELERO) EXTERNAL ROLLER SHUTTERS</b>		<b>2-01751-0000</b>
<b>64</b>	<b>Motors (ISOTRA BASIC) EXTERNAL ROLLER SHUTTERS</b>		<b>6-019175-XXXX</b>
70	Guiding channel A3	PR0109/XX	6-001786-XXXX
70	Rounded FAR-ES guiding channel cover	PR0329/XX	6-003880-XXXX
70	Screw 3,5x9,5 DIN 7504 M, Zn	A 67/4	6-003096-0000
80	Locking clip	PR0168/1	3-02239-0000
<b>80</b>	<b>Slats</b>		<b>2-00616-0000</b>
80	Aluminium slat M 317	PR0165/XX/B	6-002606-XXXX
<b>80</b>	<b>Slats</b>		<b>see Slats</b>
80	Ratchet 10x3 mm to the end slat 8 mm	PR0254	6-002685-0000
80	Rotary stop ABS - black - couple	RP0291/200	6-006288-0001
80	Lateral piece for SL-ES, black	PR0332/9004	6-012002-9004
80	End slat for the security shutter SL-ES	PR0331/XXXX	6-012001-XXXX
80	Sealing insert, round into end-slat	PR0288	6-003664-0000
80	End slat SL KU-N	PR0431/XX	6-010977-XXXX
80	Stopper VB rotative Poly, transparent - pair	PR0121	6-001866-0000
80	Cylinder round lock into KL white/brown/grey	PR0207/XX	6-002131-XXXX
80	Cylinder round lock into KL white/brown/grey	PR0208/XX	6-002133-XXXX
80	Weight down steel bar 18x3	PR0123	6-001869-0000
<b>300</b>	<b>Accessories</b>		<b>2-00690-0000</b>
300	Selve - cord coiler, without cord - white/brown	PR0131/XXXX	6-001908-XXXX
300	Selve - recessed cord coiler, without cord - white/brown	PR0133/XXXX	6-001913-XXXX
300	Selve - cord handle coiler without cord- white/brown	PR0138/XXXX	6-001914-XXXX
300	Selve - partially recessed tape coiler, without cord- white/brown	PR0286/XXXX	6-003640-XXXX
300	Selve - cor- handle coiler, without cord - white/brown	PR0140/XXXX	6-001954-XXXX
300	Selve - cord coiler, without cord - white/brown	PR0135/XXXX	6-001911-XXXX
300	Exterior aluminium handle white/brown	SC 209 XXXX	6-001387-XXXX
300	Cover caps 10 mm	ZP0013/XXXX	6-002066
300	Screw 2,9x6,5, DIN 7981 C,H, Zn	DZ 224	6-003135-0000
330	Engine holder MLP.2 125	PR0352-2	6-012064-01252
330	Engine holder MLP.2 138	PR0353-2	6-012064-01382
330	Engine holder MLP.2 150	PR0354-2	6-012064-01502
330	Engine holder MLP.2 165	PR0355-2	6-012064-01652
330	Engine holder MLP.2 180	PR0356-2	6-012064-01802
330	Engine holder MLP.2 205	PR0357-2	6-012064-02052

## Electric Motor Technical Parameters

Shaft	Maximum Roller Shutter Area	Torque	RPM	Maximum Operation Time	Power Input	International Protection Rating	Cable Length
40	3.8 m <sup>2</sup>	4 Nm	14 RPM	4 min.	65 W	IP44	3 m
40	5.8 m <sup>2</sup>	9 Nm	14 RPM	4 min.	100 W	IP44	3 m
60	7.9 m <sup>2</sup>	15 Nm	17 RPM	4 min.	140 W	IP44	1 m
60	7.8 m <sup>2</sup>	20 Nm	17 RPM	4 min.	160 W	IP44	1 m
60	6.6 m <sup>2</sup>	10 Nm	17 RPM	4 min.	120 W	IP44	1 m
60	5.3 m <sup>2</sup>	8 Nm	17 RPM	4 min.	90 W	IP44	1 m
60	4.1 m <sup>2</sup>	6 Nm	17 RPM	4 min.	90 W	IP44	1 m

## Slats

	Standard		
	M317	M328	MY442
	Vivera, Heluz	Vivera, Heluz	Vivera, Heluz
	Al	Al	Al
			
<b>Technical data ( mm )</b>	M317	M328	MY442
Covering height	37	37	42
Thickness	7,6	7,8	9,3
Material thickness	0,3	0,28	0,3
Weight	2,8 kg/m <sup>2</sup>	2,6 kg/m <sup>2</sup>	2,85 Kg/m <sup>2</sup>
Maximum Width	2900	2700	4000
Maximum Area	6,5 m <sup>2</sup>	5,8 m <sup>2</sup>	8,5 m <sup>2</sup>

## Vivera

### Winding table for 40 mm octagonal shaft.

Box size ( mm )	Slat					
	M317		M328		MY442	
	Roller shutter height ( mm )					
	manual control	motor	manual control	motor	manual control	motor
125	1270	1170	1390	1290	-	-
138	1600	1500	1720	1620	-	-
150	2090	1990	2160	2060	-	-
165	2720	2620	2640	2540	-	-
180	3260	3160	3260	3160	-	-
205	4350	4250	4360	4260	-	-

### Winding table for 60 mm octagonal shaft.

Box size ( mm )	Slat					
	M317		M328		MY442	
	Roller shutter height ( mm )					
	manual control	motor	manual control	motor	manual control	motor
125	-	780	-	970	-	660
138	-	1220	-	1480	-	950
150	-	1700	-	1960	-	1240
165	-	2250	-	2430	-	1800
180	-	2960	-	2950	-	2260
205	-	4070	-	4010	-	2860

## Vivera-Sectra

### Winding table for 40 mm octagonal shaft

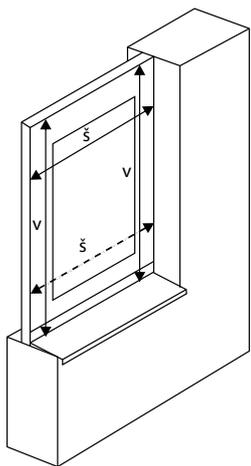
Box size ( mm )	Slat					
	M317		M328		MY442	
	Roller shutter height ( mm )					
	manual control	motor	manual control	motor	manual control	motor
138	1110	1010	1170	1070	-	-
150	1630	1530	1790	1690	-	-
165	2230	2130	2340	2240	-	-
180	2500	2400	2500	2400	-	-

### Winding table for 60 mm octagonal shaft

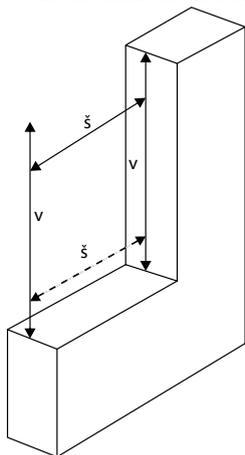
Box size ( mm )	Slat					
	M317		M328		MY442	
	Roller shutter height ( mm )					
	manual control	motor	manual control	motor	manual control	motor
138	-	720	-	960	-	-
150	-	1350	-	1470	-	-
165	-	1760	-	2060	-	-
180	-	2400	-	2400	-	-

## Measuring

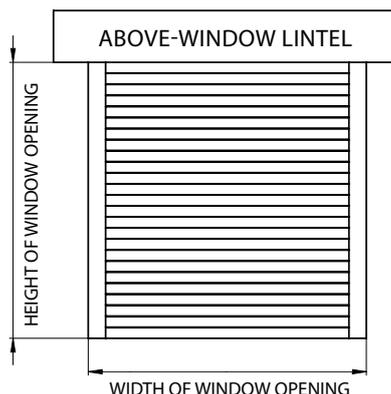
Front window roller shutter



Above-window roller shutter



Under plaster roller shutter



The ordering dimensions are the dimensions for the finished roller shutter.

Width of the roller shutter = X

Height of the roller shutter = Y

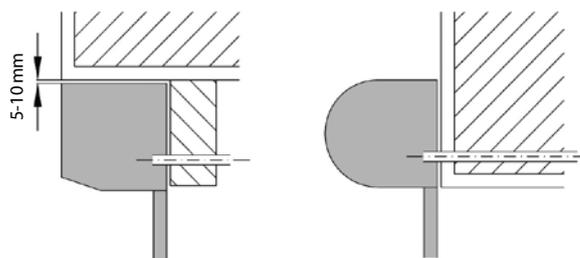
The height and the width are always measured in a minimum of three places. The manufacturing dimensions are always the minimum measured value. Measurements are taken after the frame or window is fitted into the construction hole after completion of the outside and inside reveals, including parapets. The method of measurement of external roller shutter is so specific that it is recommended to consult the technical plans at the construction site. Other specific solutions are possible.

## ASSEMBLY

The assembly may only be performed by a qualified professional employee! Construction preparedness for the assembly: finished reveal, coloured façade, finished outside parapets

### AREA FOR ASSEMBLY

- on the top 5 - 10 mm (closed with sealing substance)
- on sides also approximately 5 mm
- down: leave a maximum distance of 5 mm between the leading bar and the parapet



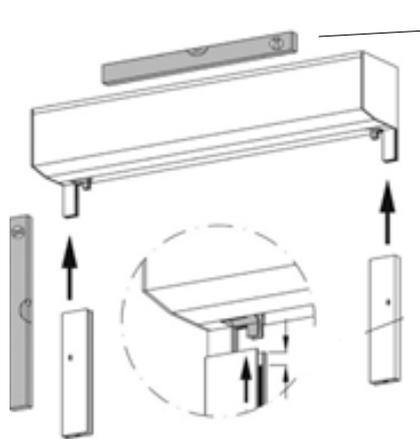
### ASSEMBLY TOOLS:

1. Tape measure
2. Water gauge
3. Pencil
4. Hammer
5. Electric drill as per the source material
6. Cordless electric drill
7. Magnetic adapter
8. Bits PZ2, PH2, magnetic adapter on hexagonal head 8 and 10
9. Set of Allen wrenches
10. Assembly cable
11. Small ratchet wrench and 8 nut
12. Set of screwdrivers, insulated, electric

## INSPECTION

Before assembly we recommend inspecting all the parts after delivery of the goods to prevent any problems. The manufacturer must be notified of any defects or comments concerning the assembly or roller shutter.

1. Check the dimensions of the roller shutter and the construction hole or the window
2. On the box cut the outlet for the strip, cable or lever of the conical gearbox and drill the passage on the wall or in the window. To prevent damage to the strip, it is necessary to drill the passage for the strip perpendicularly, if possible. Pay attention when drilling to the handle bar; the square must be located centrally in the drilled hole and must not be in contact with the walls in the hole and the scrub in them. (For the 14 mm strip, drill about 16 mm / for strip 23 mm strip, drill a hole of about 32 mm / for the cable, drill a hole about 10 mm / for the conical gearbox, follow the manual).

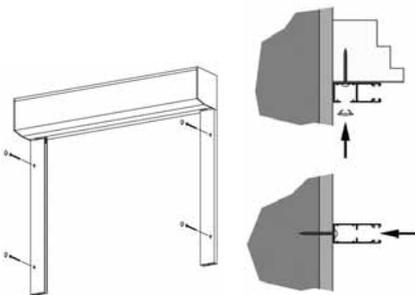


Pay attention to the exact horizontal and vertical location of the roller shutter

3. Insert the guiding bars into the leg of the side wall; check the guiding bars are the same height. (The insertion of the guiding bar into the side wall must not damage the starting point of the armour located in the side wall.)
4. Marking of drilling points in which the screws fix the blind (the size is according to the masonry and screws used). In the upper part of the guide rail, there is a fixing hole for additional fixing of the box, which it prevents it from tipping over.

## CONTROL USING THE STRIP OR THE CORD

5. On the strip attach the penetration, plastic tube, tape roll, etc. (roll downward, brush upward).
6. Suspend the strip or the cord into the spring clamp so that during the movement of the armour the upward strip is automatically wound into the winding mechanism (according to the construction the winding mechanism must be open and the strip must be hooked and fixed to the spring mechanism). We advise that when shortening the strip, the blind armour must be lowered. When working with the strip, the spring mechanism must be secured against winding!
7. Fixation of the winding mechanism on the frame of the window or the wall.
8. Fixation of the strip penetration on the wall or the window frame (the roll simplifies the movement of the strip).



Stage drilling when using PVC cover caps installation to window frame

Drilling through the guiding bar (without cover caps) installation to reveal

**ENGINE CONTROL**

9. Attach the cable from the engine to the connection box.

N.B. It is necessary to connect the cables according to the drawing of the engine supplier. The work with parts connected to the electricity current must be carried out by trained experts. During the connection all the electric lines must be without electric current. Engines are pre-adjusted, but in the place of the installation of the roller shutter they must be tested and the border settings must be adjusted.

**CONTROL BY HANDLE:**

10. Passing through the wall of the square joint bearing and fixation into the conical gearbox (in the box the square must be shortened according to the fixation).

11. Fixation of the joint bearing by the attached screws on the wall or the window frame.

12. Insert the handle (profiled tube) into the joint bearing and fix it with the fixation clamp (plastic ring).

13. Fixation of the handle holder on the window frame or the wall.

14. Version of the box under the plaster.

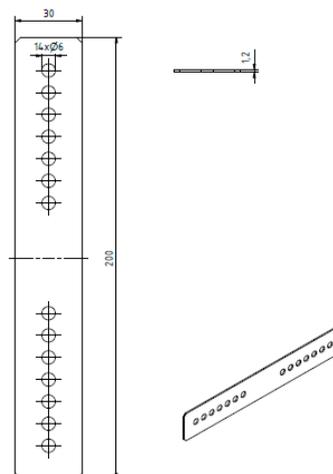
- Before starting plaster work it is necessary to cover the joints between the box and the wall and the large area joint. (Additional fixation and armouring prevents the origination of cracks from tension.)

In the upper part of the guide rail, there is a fixing hole for additional fixing of the box, which it prevents it from tipping over.

- When installing the plastering boxes, you must follow the plastering guidelines, or consult a plastering company. In principle, the box must be fixed to the masonry with the supplied perforated fastening tapes or similar fastening means. The following should be observed: the screw for fixing the perforated tape should be screwed into the upper part of the box as far as possible to avoid damage to the hinge inside the box.
- Fixing strap for flush-mounted boxes, abbreviation 2: PR0511, can be selected as an optional accessory.



**The roller shutters must be assembled and serviced by trained specialists**

**NUMBER OF FIXATIONS FOR ONE GUIDING BAR:**

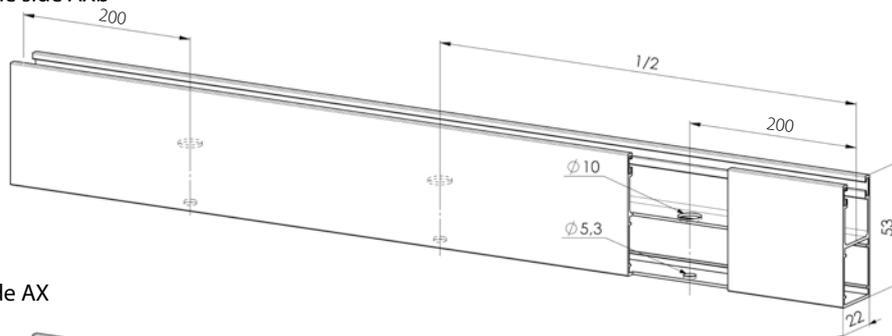
Height of the roller shutter up to **150 cm** > 2 fixation points in one guiding bar  
 Height of the roller shutter up to **250 cm** > 3 fixation points in one guiding bar  
 Height of the roller shutter over **250 cm** > 4 fixation points in one guiding bar

37,5 mm from the upper edge of the guide rail, there is a fixing hole for strengthenig the guide rail and the plaster box.

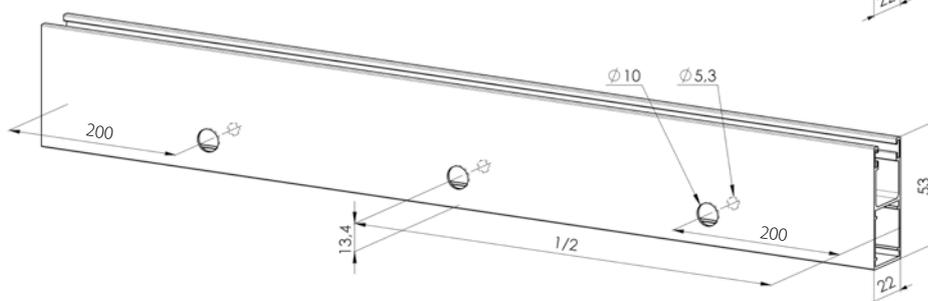
This data is valid during assembly into the masonry with a sufficient load-bearing capacity. The same is also valid for data for the attached joining material. The fixation material must be chosen according to the strength of the masonry and the static conditions of the particular case.

**Guiding rails drilling**

A) from the side AXb



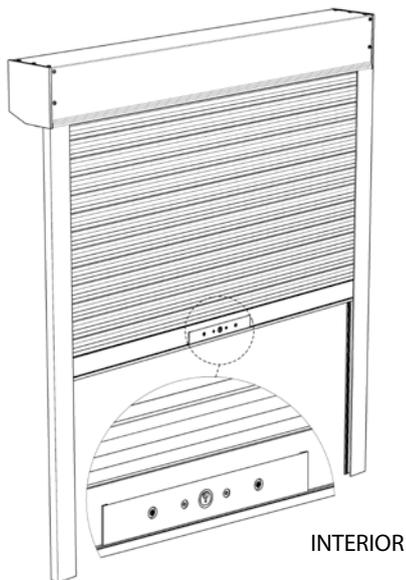
B) face side AX

**Guide rails - frontway/sideway drilling (200 mm on both sides from the edges)**

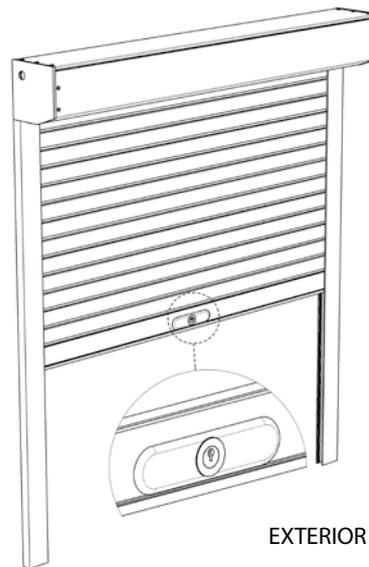
up to a height of 1500 mm	2 openings (on the edges)
more than 1500 mm up to 3000 mm	3 openings (2 openings on the edges + 1 centre opening)
from 3000 mm up to 4500 mm	4 openings (2 openings on the edges + 2 centre openings)
from 4500 mm	5 openings (2 openings on the edges + 3 centre openings)

Dismantling of the revision cover of the box must always be enabled. Therefore, the revision cover cannot be plastered or fixed into the construction. For the installation of boxes under the plaster, the strip is prepared which is fixed to the side by the rivet which can be plastered.

## Lock position



INTERIOR



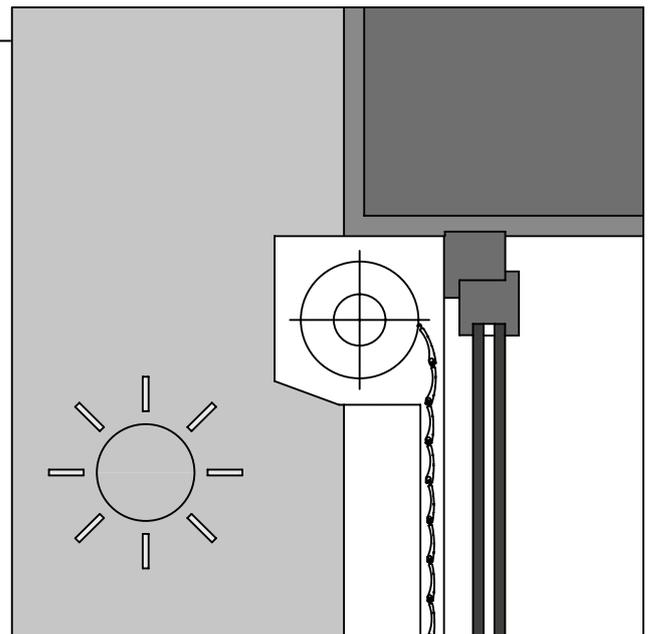
EXTERIOR

## Assembly Alternatives

### Vivera and Sectra Roller Shutter Assembly

#### Assembly A

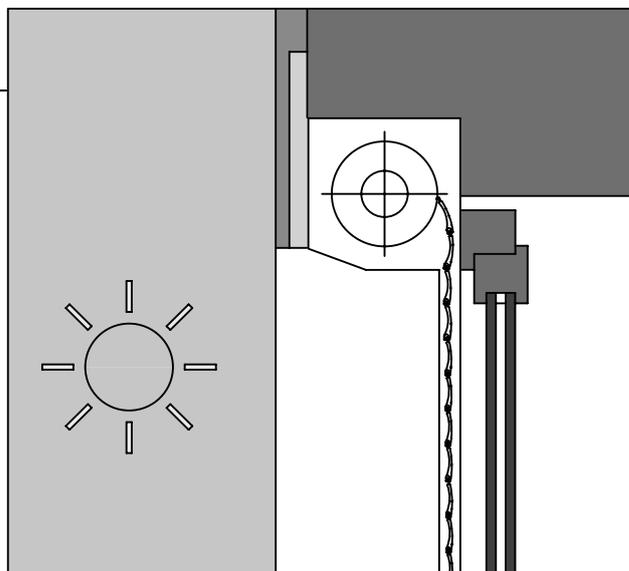
**Assembly on window frame.** Prepare the aperture for passage of the control mechanisms into interior, prepare the passage for cord, crank or electrical cable based on the control method and lower the rolling Shutter to the low position. Put the box onto the guiding rails and then screw the complete set onto the window frame. Cover the screws with covers. After checking the roller Shutter function, attach the bushing for cord, tape or crank in the interior. In the case of electrical control, complete the wiring, which can only be done by a qualified person. In the case of absence of the expanding profile on the window, the disadvantage of the installation is the window clearance reduction.



### Admira and Vivera Roller Shutters Assembly

#### Assembly A

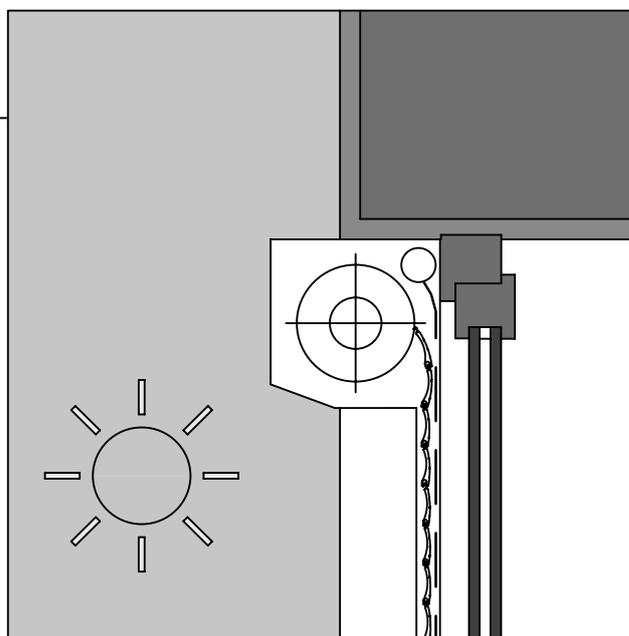
**Assembly on window frame.** An advantage of these roller shutter is that they are hidden under the façade or heat-insulating system that does not disturb the building aesthetics. Prepare the aperture for passage of the control mechanisms into interior, prepare the passage for cord, crank or electrical cable based on the control method and lower the roller shutter to the low position. Put the box onto the guiding rails and then screw the complete set onto the window frame. Cover the screws with covers. After checking the roller shutter function, attach the bushing for cord, tape or crank in the interior. In the case of electrical control, complete the wiring, which can only be done by a qualified person.



### Vivera-Sectra Roller Shutters Assembly

#### Assembly A

**Assembly on window frame.** Prepare the aperture for passage of the control mechanisms into interior, prepare the passage for cord, crank or electrical cable based on the control method and lower the roller shutter to the low position. Put the box onto the guiding rails and then screw the complete set onto the window frame. Cover the screws with covers. After checking the roller shutter function, attach the bushing for cord, tape or crank in the interior. In the case of electrical control, complete the wiring, which can only be done by a qualified person. Drill apertures for the screen locking in the guiding rail. The SECTRA roller shutter can also be mounted in above-window pockets or lintels.



## Vivera Roller Shutter Assembly

### Assembly B

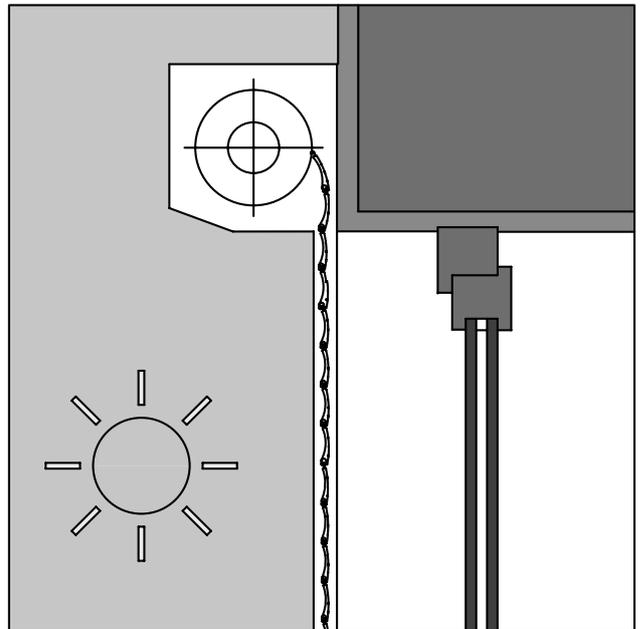
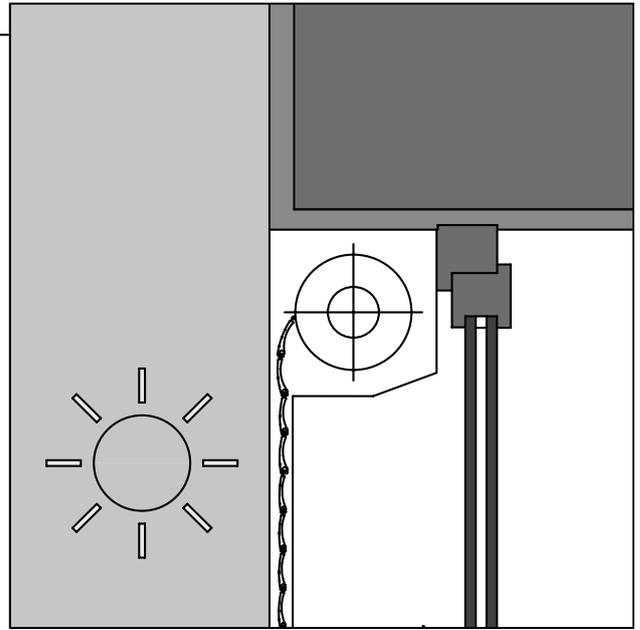
**Reverse Assembly on window frame.** The box is screwed onto the window frame en face and the distance between guides and window is based on the box size. Prepare the aperture for passage of the control mechanisms into interior, prepare the passage for cord, crank or electrical cable based on the control method and lower the roller shutter to the low position. Put the box onto the guiding rails and then screw the complete set onto the window frame. Cover the screws with covers. Screw the guiding rails onto the window lining. After checking the roller shutter function, attach the bushing for cord, tape or crank in the interior. In the case of electrical control, complete the wiring, which can only be done by a qualified person.

### Assembly D

**Assembly on window frame from interior.** This is practically Installation A with the only difference that the roller shutter and the roller shutter control are installed inside the room. Put the box onto the guiding rails and then screw the complete set onto the window frame. Cover the screws with covers. Complete the control system. After checking the roller shutter function, attach the bushing for cord, tape or crank in the interior. In the case of electrical control, complete the wiring, which can only be done by a qualified person.

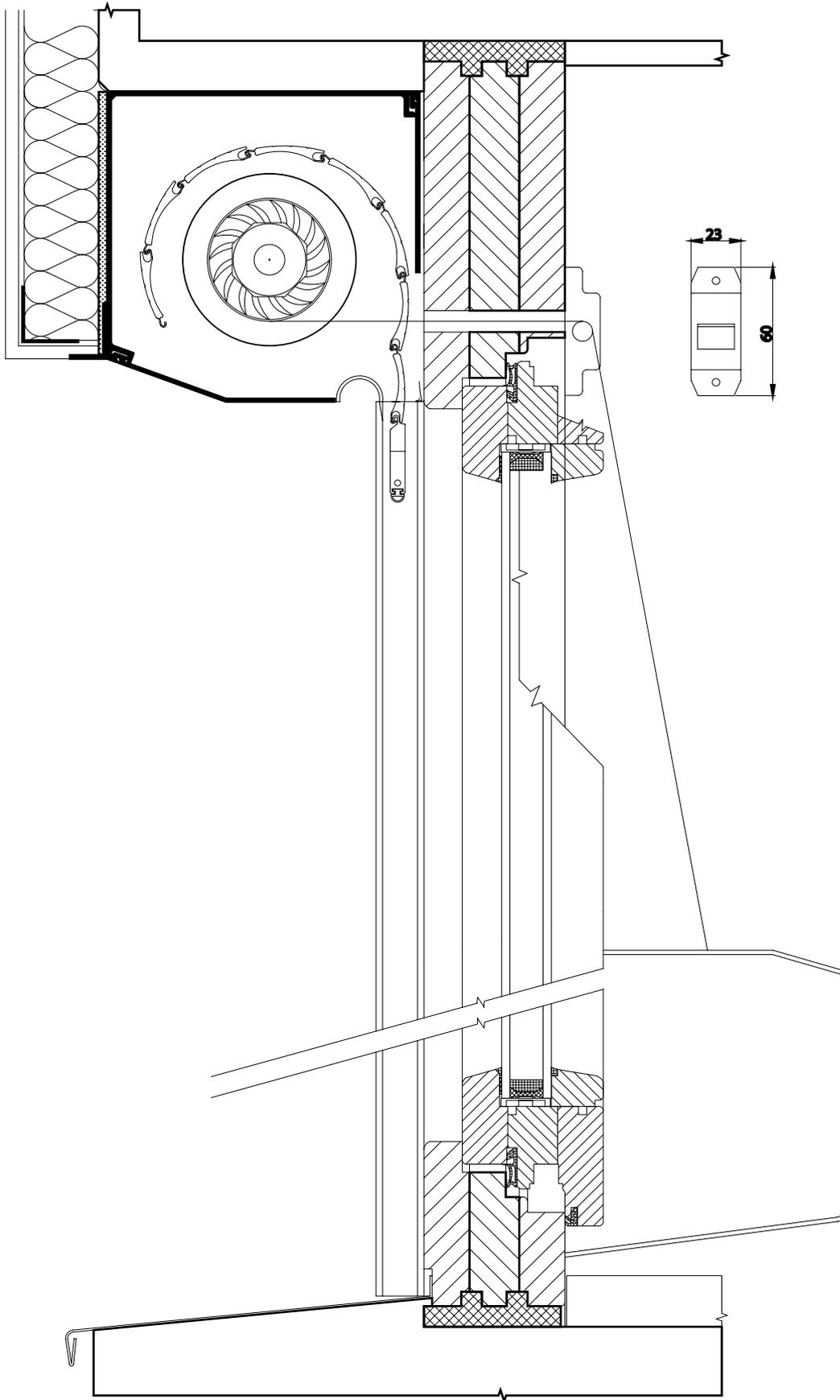
### Assembly E

**Assembly on facade.** Prepare the aperture for passage of the control mechanisms into interior, prepare the passage for cord, crank or electrical cable based on the control method and lower the roller shutter to the low position. Put the box onto the guiding rails and then screw the complete set onto the facade. Cover the screws with covers. After checking the roller shutter function, attach the bushing for cord, tape or crank in the interior. In the case of electrical control, complete the wiring, which can only be done by a qualified person. The guiding rails should have end stops.



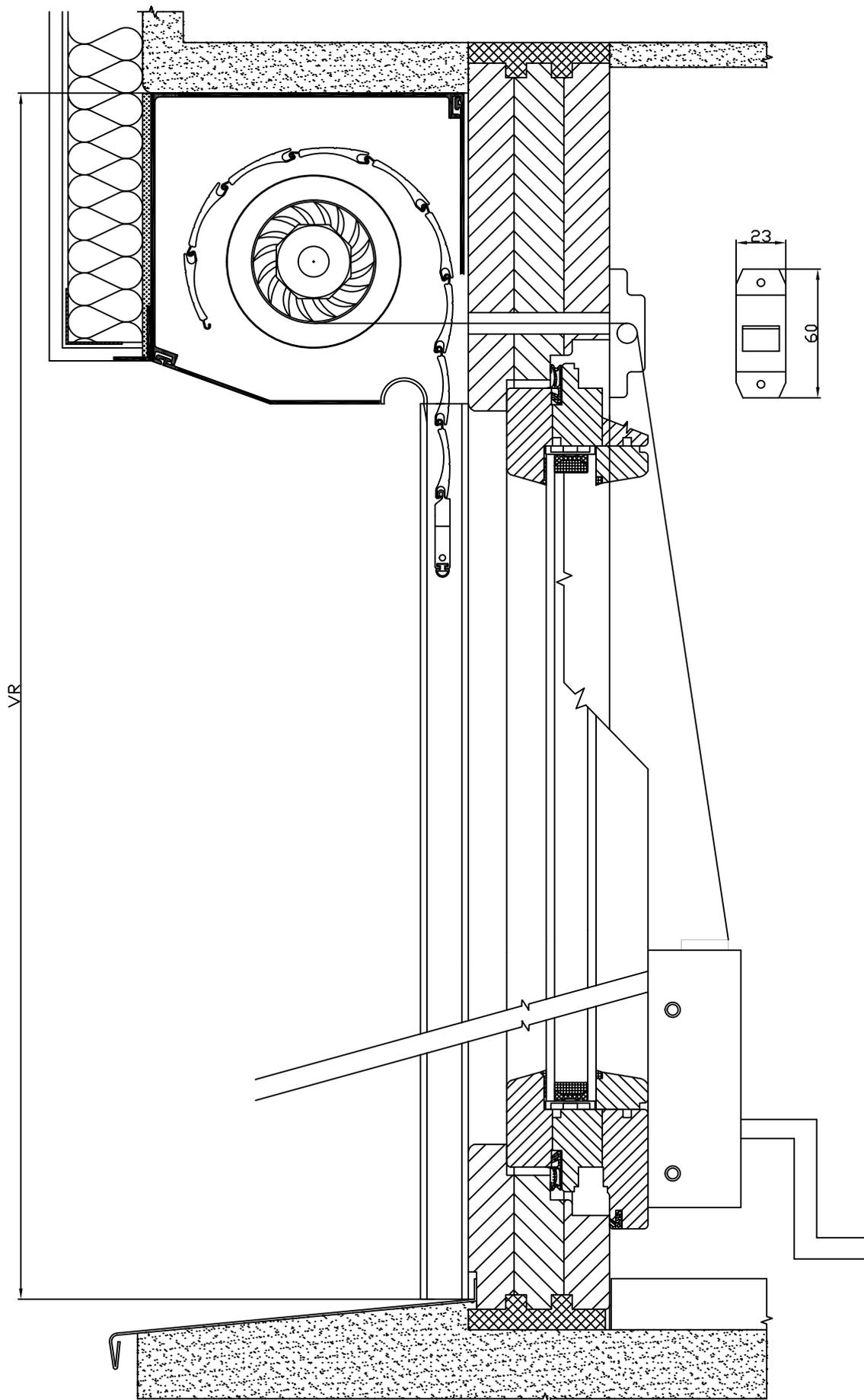
## Schematic Sections for Individual Control Types

### Tape Controlled Roller Shutter – vertical section



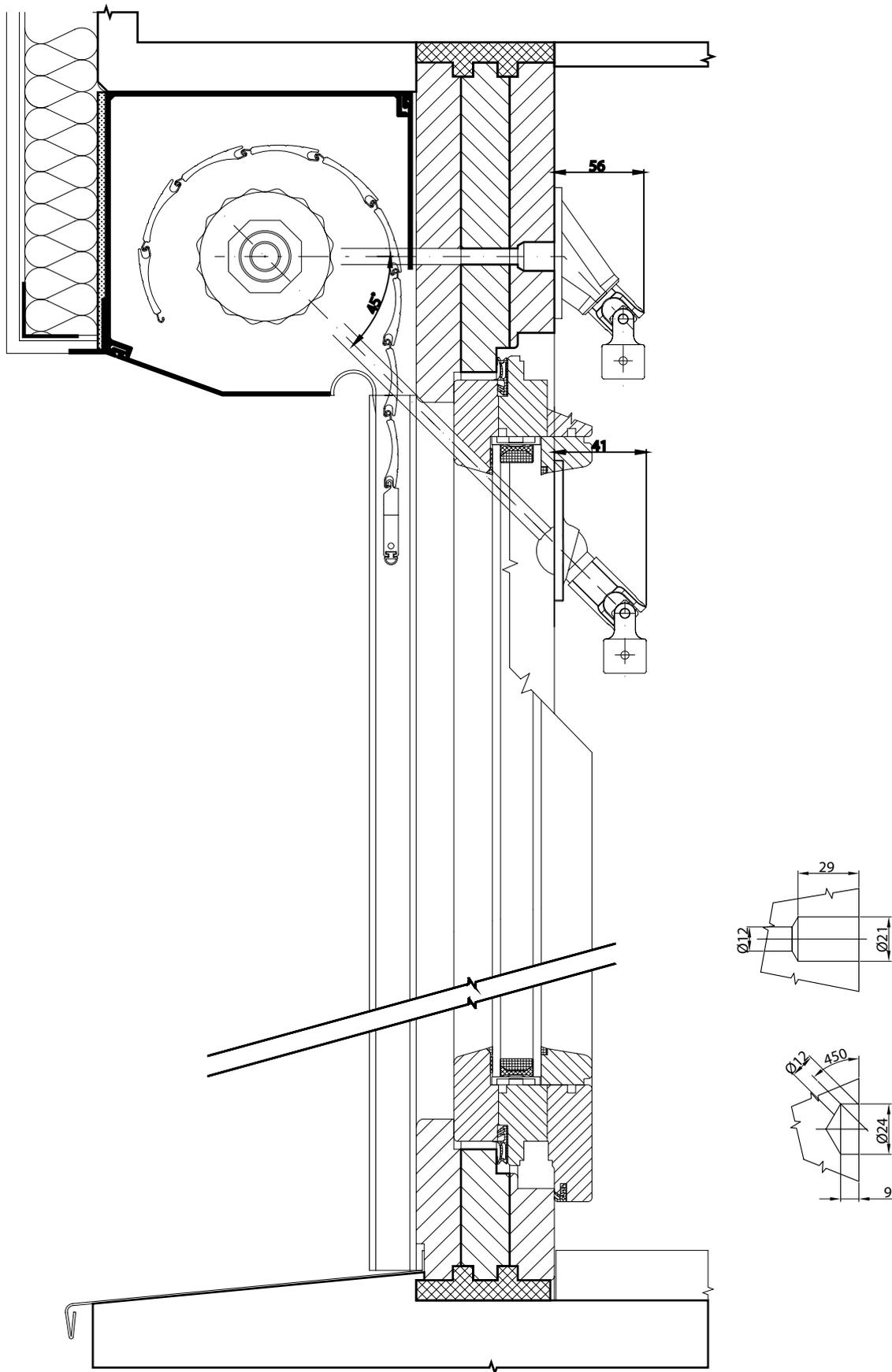
This is a schematic drawing whose shape varies according to the configuration of the product.

Crank Winder Controlled Roller Shutter – vertical section



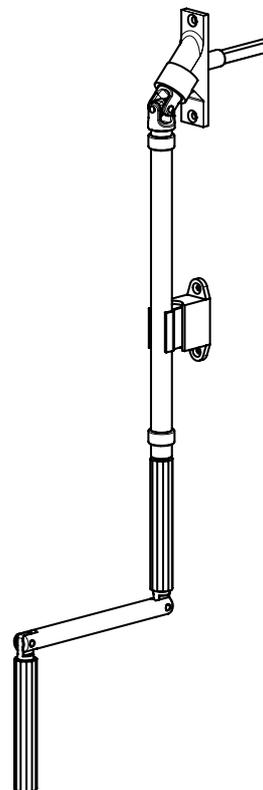
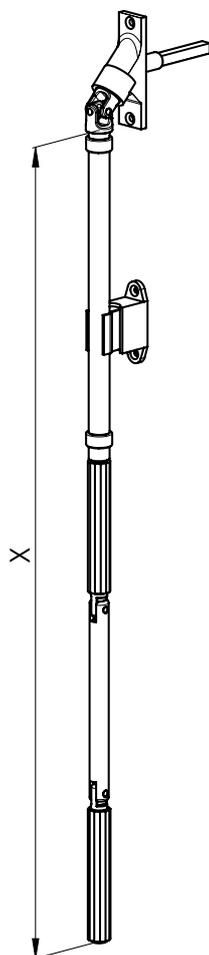
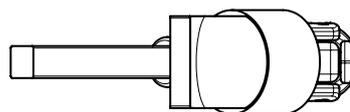
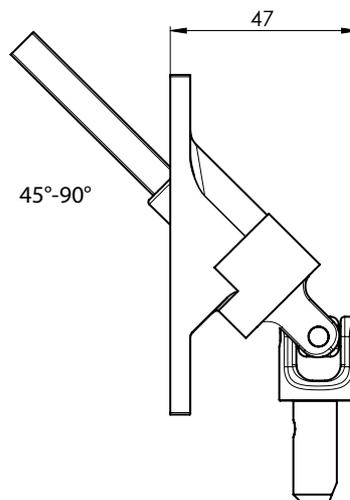
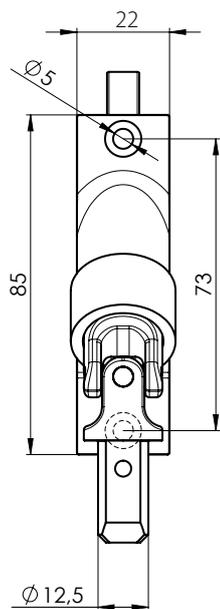
This is a schematic drawing whose shape varies according to the configuration of the product.

## Crank Controlled Roller Shutter – vertical section

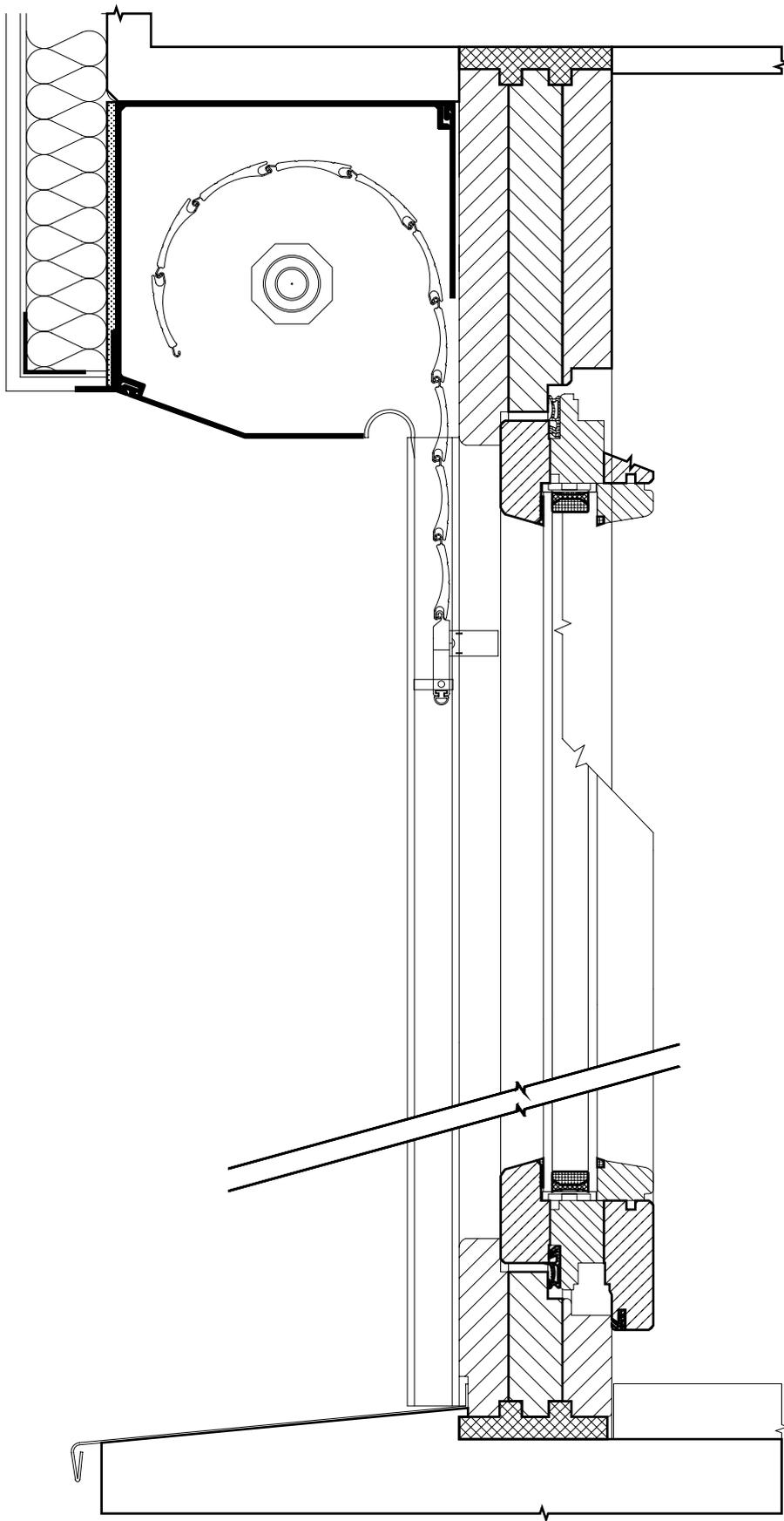


This is a schematic drawing whose shape varies according to the configuration of the product.

Articulated coupling 45-90°  
PR0185  
(6-002709-0000)



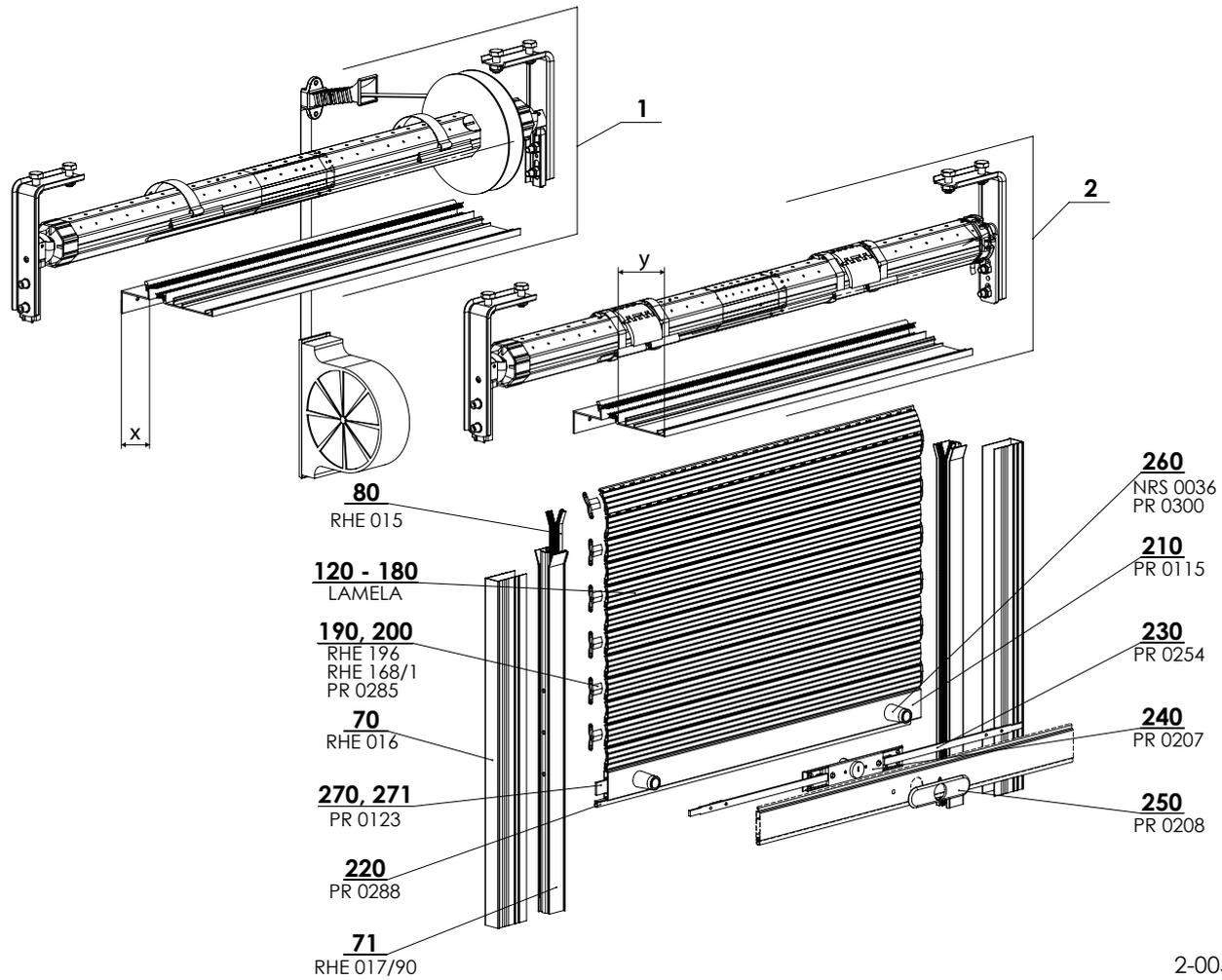
## Spring or Motor Controlled Roller Shutter - vertical section



This is a schematic drawing whose shape varies according to the configuration of the product.

# HELUZ Lintel External Roller Shutter

## Basic Product Specification



2-00528-XXXX-E

### Control

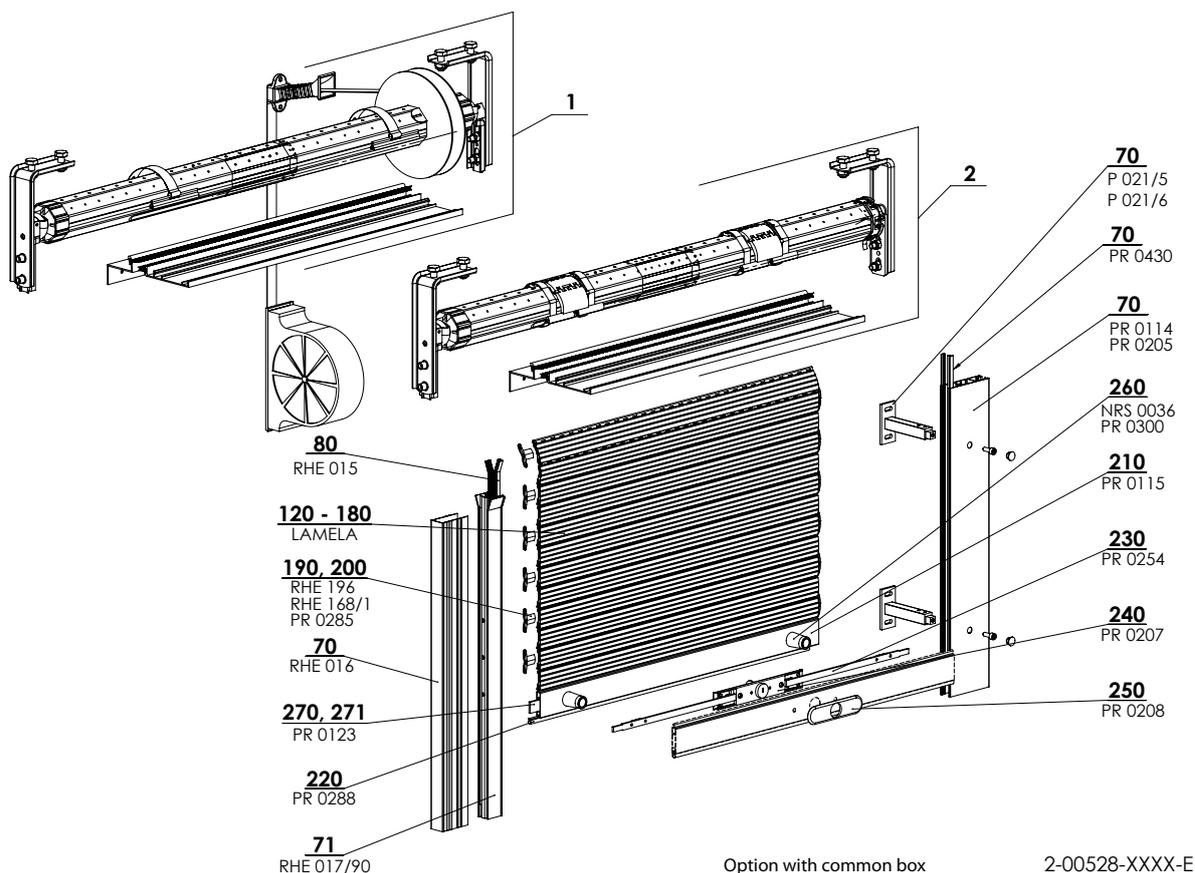
- Tape - used for pulling the roller blind up and down. White or grey 22 mm wide tape.
- Motor - with the torque of 4–20 Nm, mounted in the octagonal rod with diameter of 40 mm or 60 mm.

### Standard Dimensions

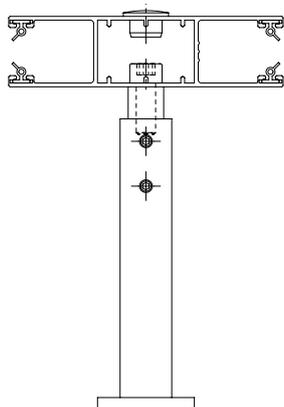
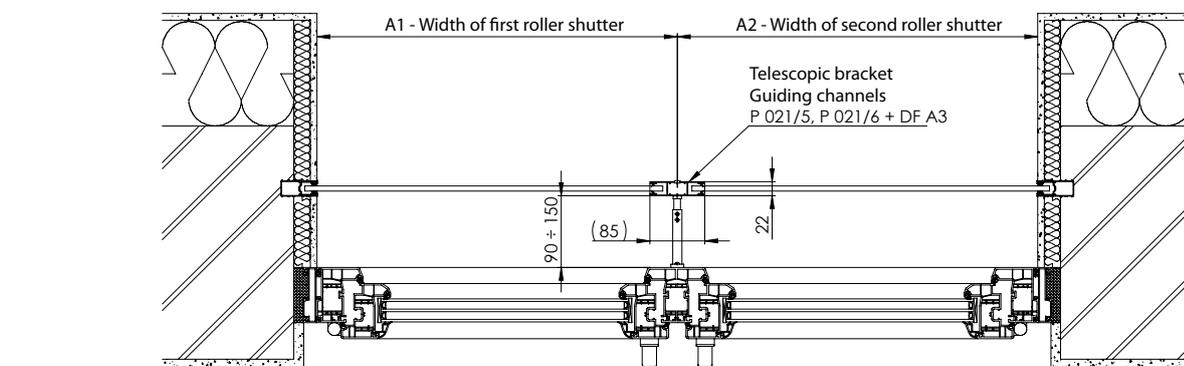
Slat	Control	Width (mm)		Height (mm)		Guaranteed area (m <sup>2</sup> )
		min.	max.	min.	max.	max.
M328	tape	600	2700	600	2800	3,5
	motor	600	2700	600	2800	5,8
M317	tape	600	2900	600	2800	3,2
	motor	600	2900	600	2800	6,5
MY442	motor	600	4000	600	2300	8,5

Maximum width of underplaster common box for outside roller shutters is 4 m and 5,5 m for visible box.

## Roller shutter for Heluz lintel - common guiding channel



## Roller shutter for Heluz lintel - connected roller shutters



Telescopic bracket P 021/5, P 021/6

Recommended quantity of telescopic brackets for guide rail DF A3					
Height of roller shutter	0 - 75	76 - 125	126 - 175	176 - 225	226 - 290
Amount of brackets	2	3	4	5	6

Connected roller shutters for Heluz lintel

2-00528-XXXX-E

HELUZ 2-00330-0000

Position	Item name	Business name	Drawing number
1	Motor drive		2-00531-0000
2	Manual drive		2-00532-0000
70	Al pocket for guiding channel	RHE016	6-006565-0000
71	Al. guiding channel without brush	RHE017/90	6-006566-0090
80	Brush for guiding channel	RHE015	6-006564-0000
<b>120-180</b>	<b>Slats</b>		<b>see page 36</b>
190,200	Staple	PR0285	6-003139-0000
210	End cap	PR0115	6-001858-xxxx
220	Staple	PR0288	6-003139-0000
230	Ratchet 10x3mm into last slat	PR0254	6-002685-0000
240	Cylinder round lock into last slat	PR0207	6-002131-0000
250	Round end cap lock	PR0208	6-002133-xxxx
260	Dead stop 28 mm	NRS0036	6-005477-0000
260	PVC block for last slat	PR0300	6-009813-0004
270,271	Weight down steel bar	PR0123	6-001869-0000

Electric Motor Technical Parameters

Shaft	Maximum Roller Shutter Area	Torque	RPM	Maximum Operation Time	Power Input	International Protection Rating	Cable Length
60	4,1 m <sup>2</sup>	6 Nm	17 RPM	4 min.	90 W	IP44	1 m
60	5,3 m <sup>2</sup>	8 Nm	17 RPM	4 min.	90 W	IP44	1 m
60	6,6 m <sup>2</sup>	10 Nm	17 RPM	4 min.	120 W	IP44	1 m
60	7,8 m <sup>2</sup>	20 Nm	17 RPM	4 min.	160 W	IP44	1 m
60	7,9 m <sup>2</sup>	15 Nm	17 RPM	4 min.	140 W	IP44	1 m

Heluz

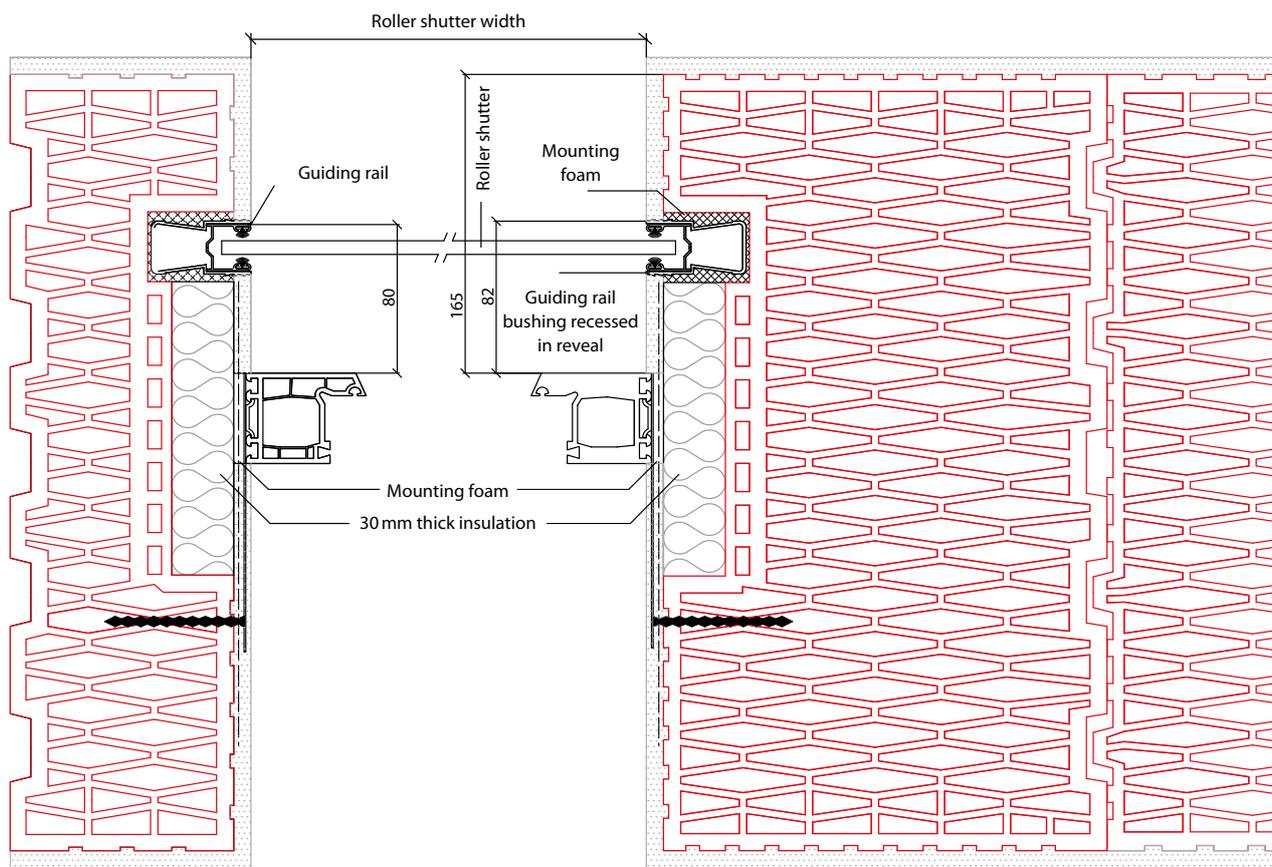
Winding table for 60 Octagonal Shaft

Box Size	Slat					
	M317		M328		MY442	
	manual control	motor	manual control	motor	manual control	motor
165	2300	2200	2480	2380	1850	1750
180	3000	2900	3000	2900	2300	2200

## Measuring and Installation of HELUZ Lintel External Roller Shutter

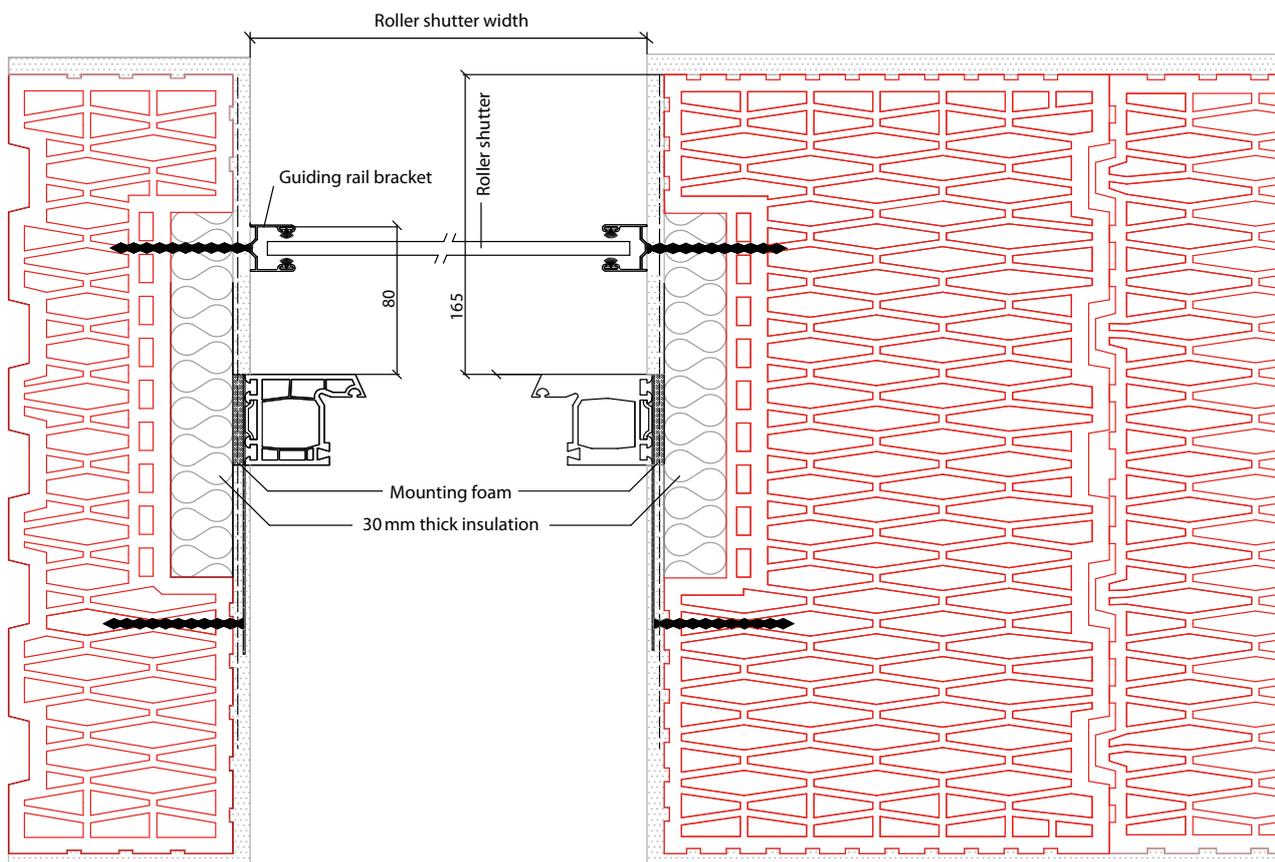
The guiding rail bushings can be recessed in an insulation sandwich. The roller shutter guiding rails can also be attached to the windows frame using attachments.

### Fitting of roller shutter bushing with recessed guiding rail – standard Installation



Use the Fisher FFS or FFSZ screw for window frames or appropriate frame dowels with a minimum length of 80 mm.

### Fitting of roller shutter guiding rail in reveal



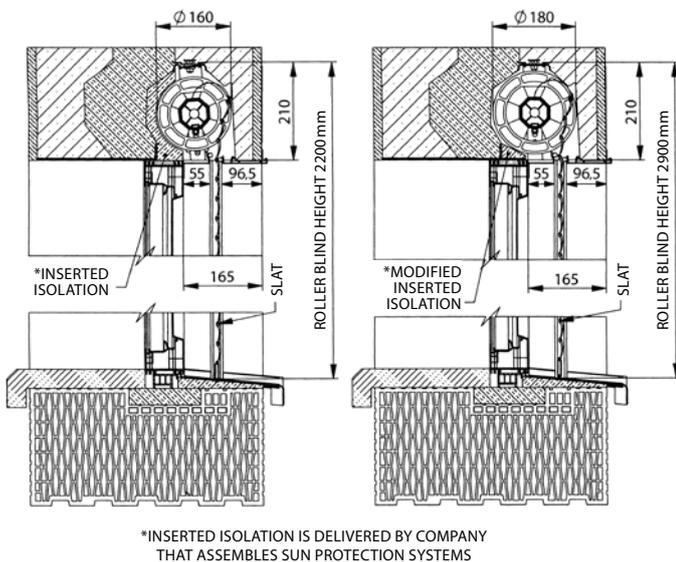
Use the Fisher FFS or FFSZ screw for window frames or appropriate frame dowels with a minimum length of 80 mm.

## Fitting of window frame for roller shutter assembly

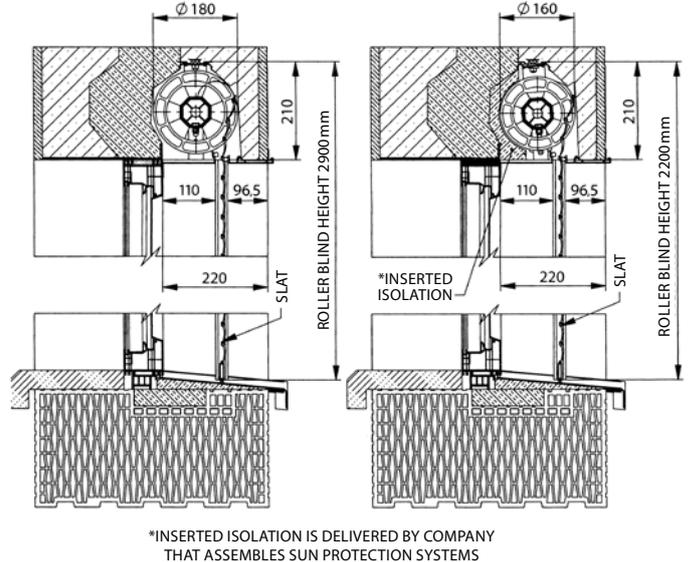
The distance between the outside brick lining of lintel and outside part of window frame is 220 mm.

This distance is identical for assembly of roller shutters and Venetian blinds. The distance of 165 mm is suitable for using the inserted isolation for the roller shutter assembly.

FITTING THE WINDOW FRAME FOR ROLLER SHUTTERS  
165 mm FROM THE OUTSIDE LINING OF THE LINTEL



FITTING THE WINDOW FRAME FOR ROLLER BLINDS 220 mm  
FROM THE OUTSIDE LINING OF THE LINTEL



## Control

The bearing HELUZ roller shutter lintel can be fitted either with manual or electric control.

If the customer decides for the manual control using a tape, it is necessary to keep the lintel seating of 200 mm, rather 250 mm, if possible, on the control side. The tape winds into the box located in the wall next to the window (from the left or from the right). The box must be located along the vertical axis of the lintel aperture. In the case of electrical control of the shading systems, a wiring branch box is to be installed next to the lintel and a cable with minimum of 3 wires with the section of 1.5 mm<sup>2</sup> for 230 V power supply will lead into it. The branch box with the cable tube with the minimum diameter of 16 mm will be interconnected with the inner part of the lintel, eventually with a switch. The electrical drive is to be located in the roller shutter rod or Venetian blind carrier. The entire wiring system needs to be consulted with the shading equipment assembling company prior to applying the plastering.

When using the electrical control, we can place the lintel symmetrically on the assumption of keeping the minimum lintel seating of 200 mm on both sides.



Motor control

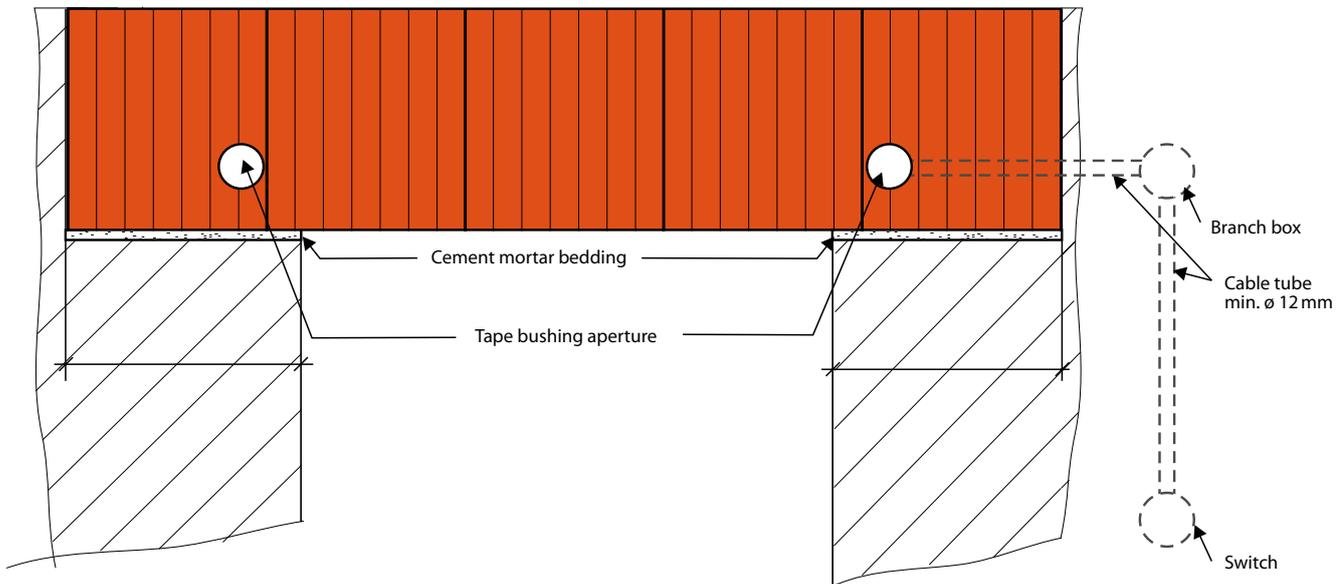


Tape control

### Recessing of components for motor control

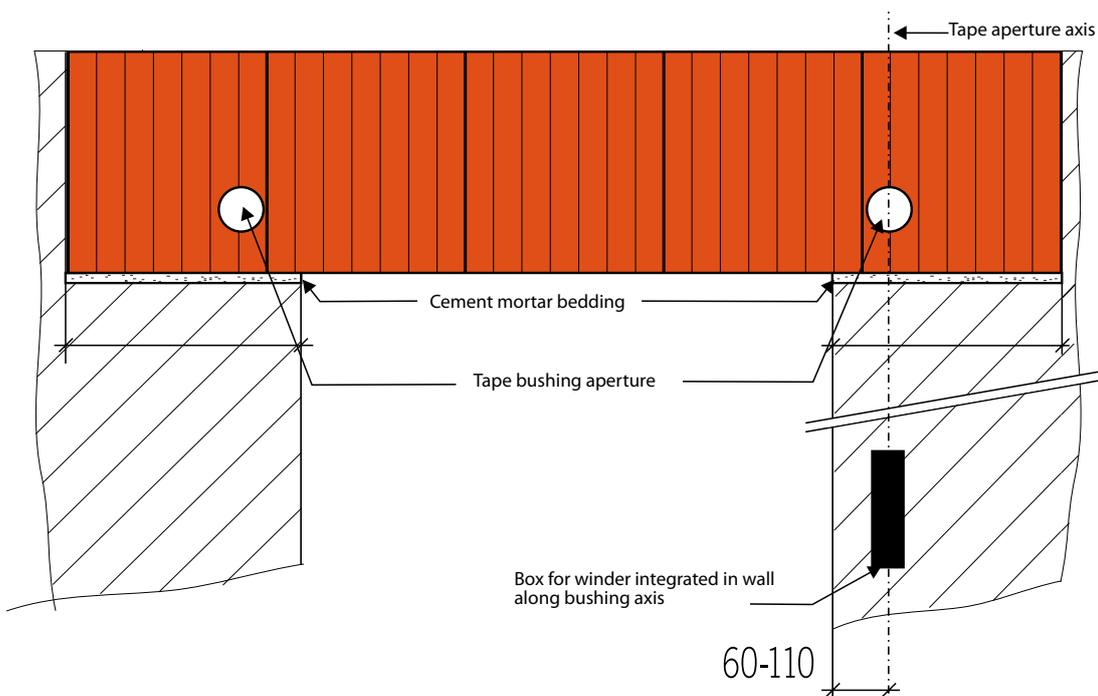
In the case of the motor control, the electric motor is installed in the roller shutter crank. We do not fit the winder box or tape bushing. In this case, we install a branch box, cable tube and eventually a switch box next to the lintel.

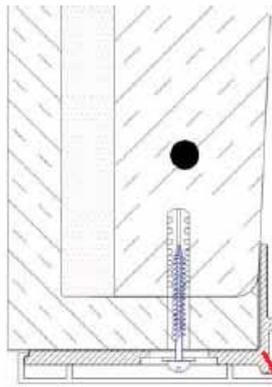
**Do not cut out the polystyrene inside the lintel!**



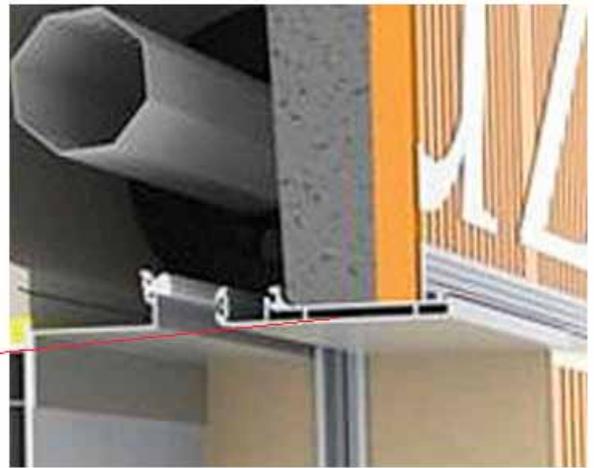
### Recessing of components for manual control

The manual control is performed using a tape bushing, 22 mm tape and winder recessed in the masonry next to the window.

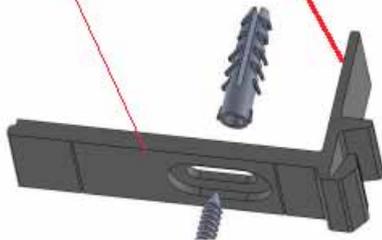




External aluminium flap.  
Width 96.5 mm  
Order number: 6-011038-0090

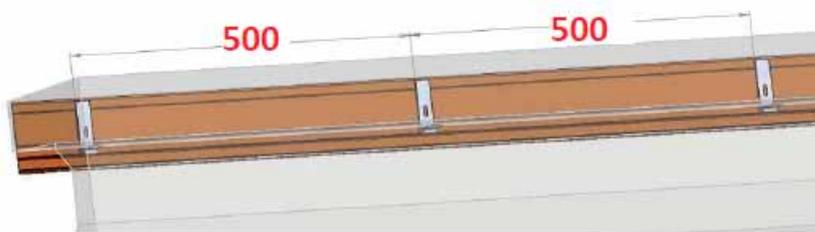


Front flap plastic brackets.  
Order number: 6-012196-0000



**Installation of the new version:**

Recommended distance between brackets approx. 500 mm.



## ROLOSA



- ▲ Complete solution for lintel systems
- ▲ Self-supporting
- ▲ For lintels in new as well as refurbished buildings
- ▲ Simple and fast shutter installation
- ▲ Convenient motor operation
- ▲ Made of high-quality, durable materials

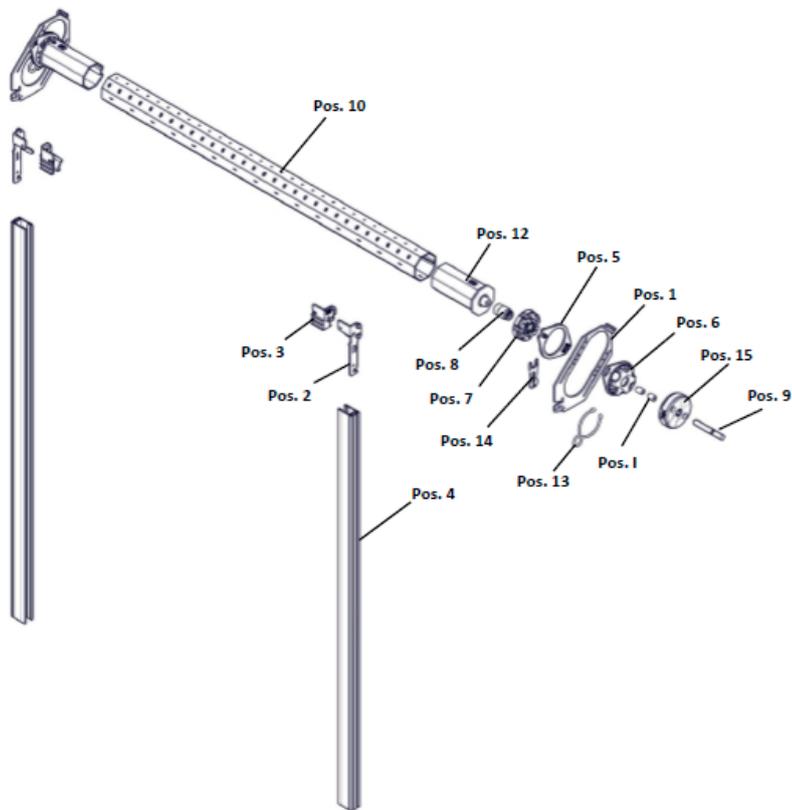
**ISOTRA** *Quality*

# ROLOSA External Roller Shutters

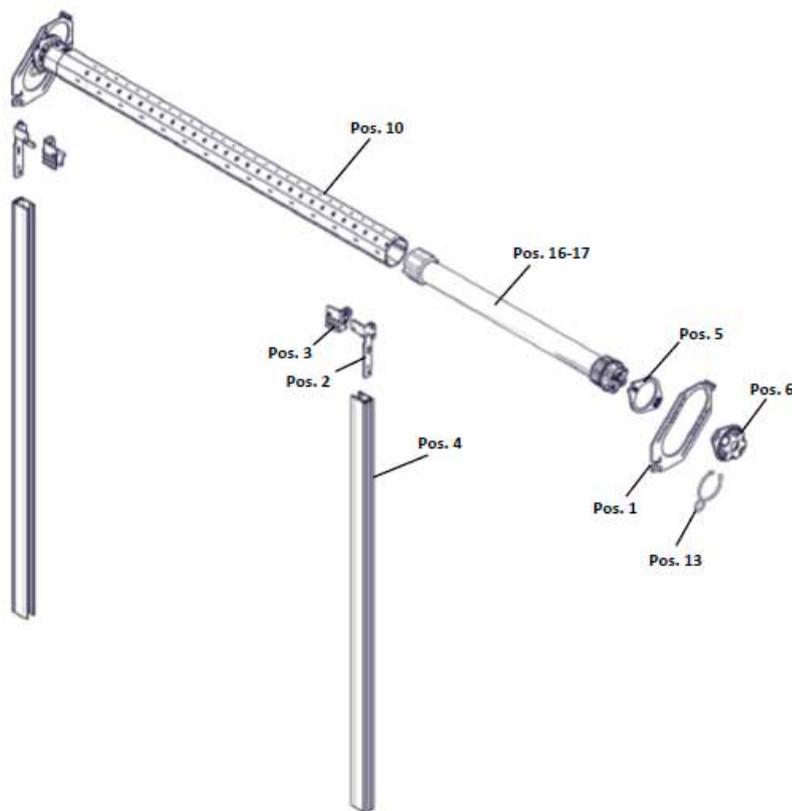
## Basic product specification

### Controls

#### Handle



### Motor



## Standard dimensions

## Slat M317

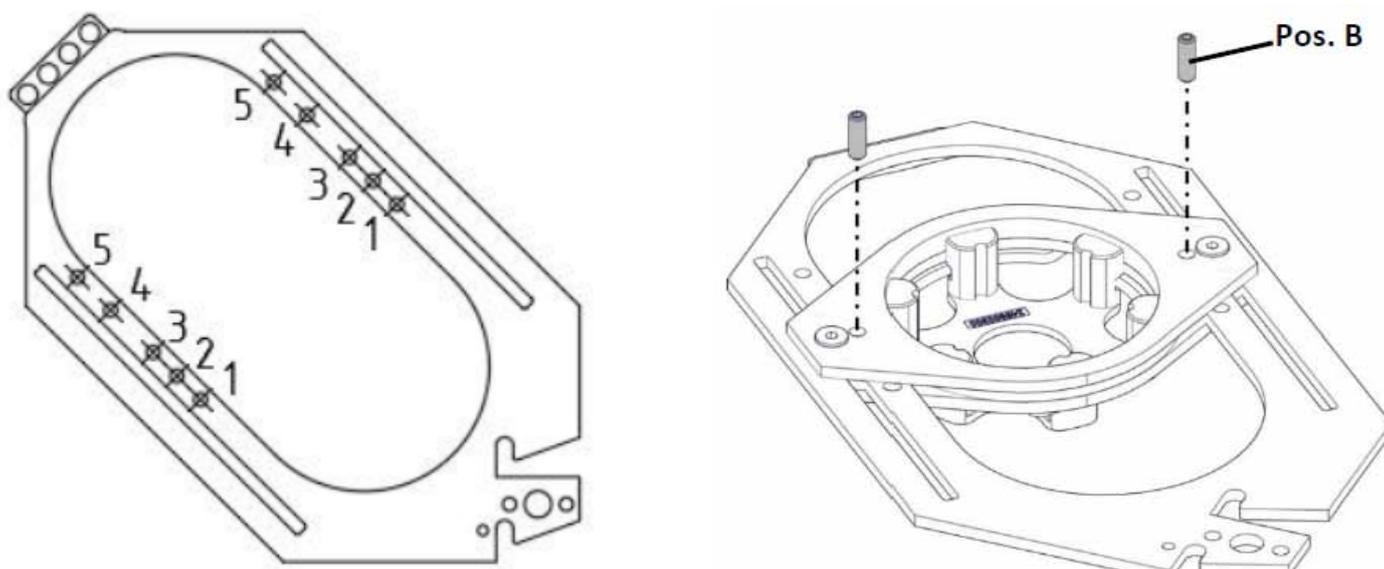
Controls	Width (mm)		Height (mm)		Guaranteed area (m <sup>2</sup> )
	min.	max.	min.	max.	max.
Handle	400	2900	1130	5880	6,5
Motor	720	2900	1130	5880	6,5
Solar motor	840	2500	400	3000	5,5

## Slat MY442

Controls	Width (mm)		Height (mm)		Guaranteed area (m <sup>2</sup> )
	min.	max.	min.	max.	max.
Motor	720	4000	1370	4370	8,5
Solar motor	840	2500	400	3000	5,5

The minimum and maximum heights depend on the position of shaft positioning elements.

The shaft is offered only in 60 mm diameter.



## Standard dimensions

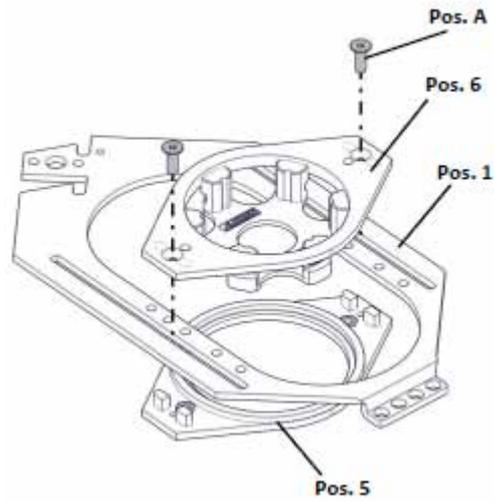
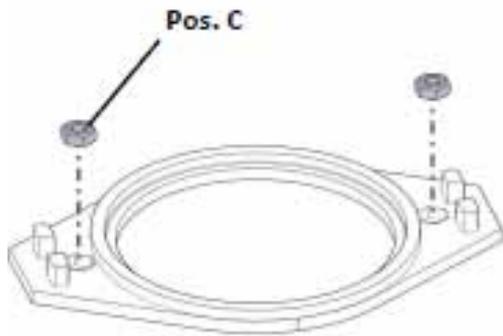
Slat	M317	MY442
<b>Poloha hřídele</b>	<b>Shaft position acc. to the element height</b>	
Position 1	≤1130 mm	---
Position 2	>1130 mm - ≤1880 mm	≤1370 mm
Position 3	>1880 mm - ≤2880 mm	>1370 mm - ≤1870 mm
Position 4	>2880 mm - ≤4380 mm	>1870 mm - ≤3120 mm
Position 5	>4880 mm - ≤5880 mm	>3120 mm - ≤4370 mm

**ROLOSA (2-01122-0001)**

Item	Item name	Trade name	Drawing No.
<b>10</b>	<b>Motors (SOMFY) EX. ROLLER SHUTTERS</b>		<b>2-00534-0000</b>
<b>20</b>	<b>Motors (GEIGER) EX. ROLLER SHUTTERS</b>		<b>2-00565-0000</b>
30	Star-shaped motor holder		6-019105-000
40	Worm gear 4 : 1		6-019114-0000
41	Coupler, galvanised		6-019100-0000
42	L coupler holder, galvanised		6-019101-0000
43	R coupler holder, galvanised		6-019102-0000
45	Lead for guide rail NB-N 22		6-019103-0000
46	Universal holder		6-019104-0000
49	Friction bearing bush		6-019106-0000
49	Friction bearing bush		6-019106-0000
50	Friction bearing with recessed square 10×10 mm		6-019107-0000
50	Friction bearing with recessed square 10×10 mm		6-019107-0000
51	Square 10×10×80 mm		6-019108-0000
51	Square 10×10×80 mm		6-019108-0000
52	Carrier of tube 60 mm, 115 mm		6-019111-0000
56	Carrier of tube 60 mm, 115 mm		6-019111-0000
60	Lock ring		6-019112-0000
65	Safety lock		6-019113-0000
65	Safety lock		6-019113-0000
66	Ceiling holder, galvanised		6-019110-0000
70	Grommet 90 deg.		6-019115-0000
75	Steel octagonal shaft 60 mm, 0.9 mm		6-019109-0000
80	Steel octagonal shaft 60 mm, 0.9 mm		6-019109-0000
<b>140</b>	<b>Roller shutter slat – (CURTAIN)</b>	<b>PANCIR VR</b>	<b>2-00616-0000</b>
250	Octoeasy link – two-part, shaft 60 mm, box 180–205	PR0648/4	6-013920-0000
251	Octoeasy link – two-part, shaft 60 mm, box 180–205	PR0648/4	6-013920-0000
252	Octoeasy link – two-part, shaft 60 mm, box 180–205	PR0648/4	6-013920-0000
260	Spring lock (link with steel band), Mini No. 1	PR0102	6-001871-0000
<b>270</b>	<b>Guide rail STS</b>	<b>PRR016/1</b>	<b>7-304436-0000</b>
302	Plastic screw 3.5×12 mm		6-019118-0000
304	Grub screw M4×12		0-019119-0000
307	Nut M4 DIN 934, 8.8		6-004600-0001
313	Bolt M5×50, countersink head		6-019120-0000
325	Nut M5 DIN 934, 8.8, Zn	P 041/3/2	6-001178-0000
350	Bolt M5×12 Zn DIN 967		6-012863-0000
375	Extension 5.2×10		6-019121-0000
<b>400</b>	<b>Accessories package as per summary</b>		<b>2-00341-0000</b>

**Preparation of side pieces**

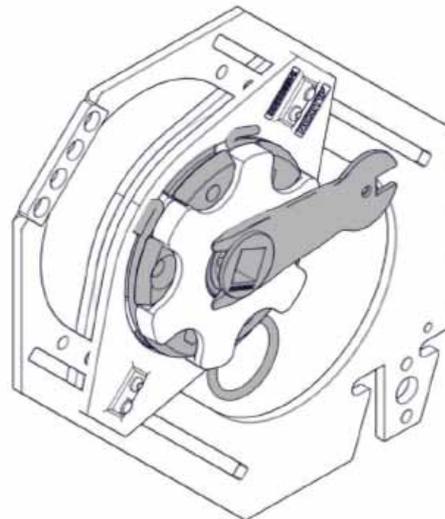
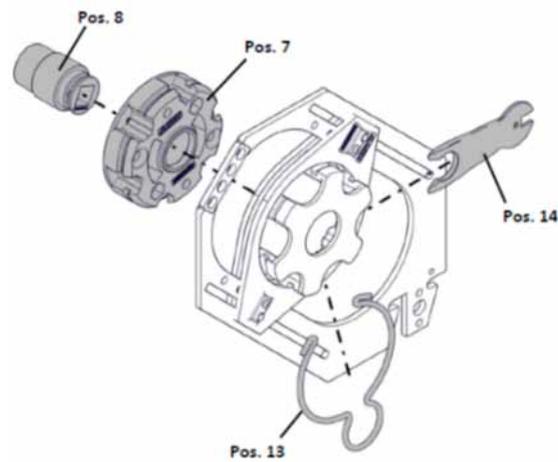
2 side pieces  
1x left 1x right



**Assembly of the bearing**

1x opposite side of the drive  
1x by the handle

1x opposite side of the drive  
1x by the handle

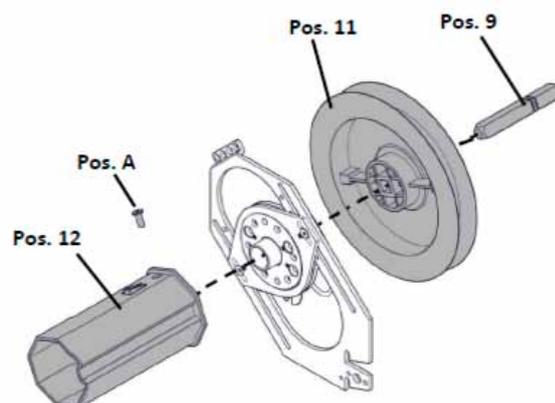
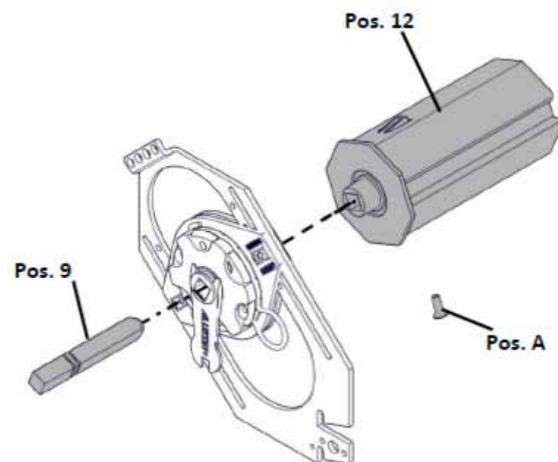


**Assembly of the cylindrical cap**

1x opposite side of the drive

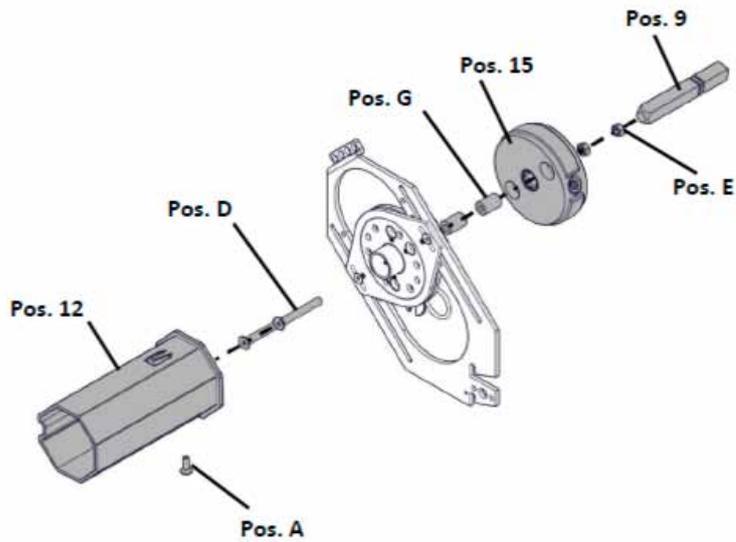
**Assembly of the pulley**

1x drive side



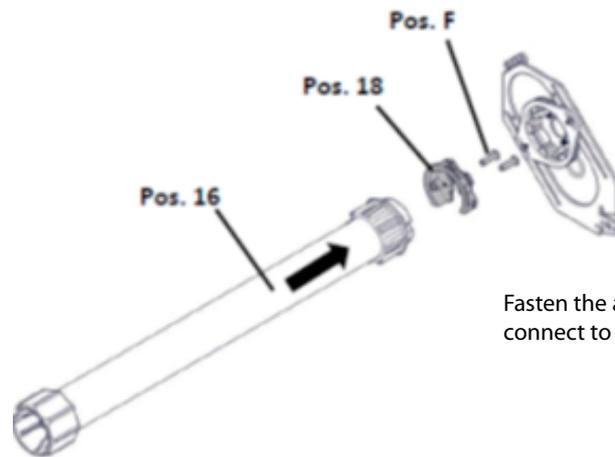
### Assembly of the handle

1× drive side



### Assembly of the Becker motor

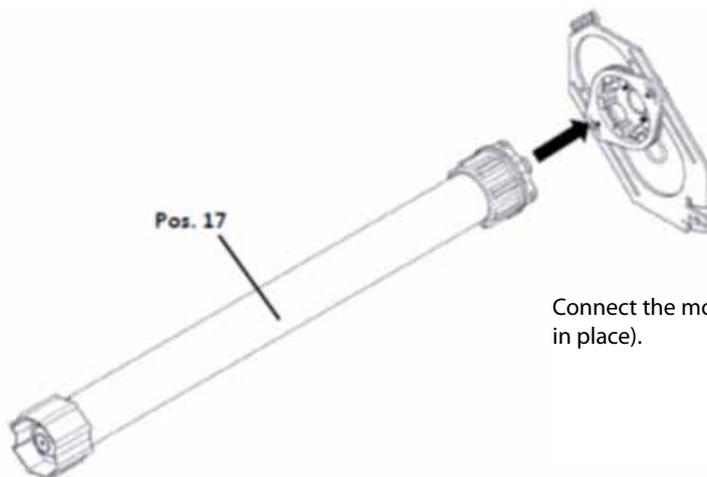
1× drive side



Fasten the adapter (Item 18) to the motor and connect to the side piece (it will lock in place).

### Assembly of the Somfy motor

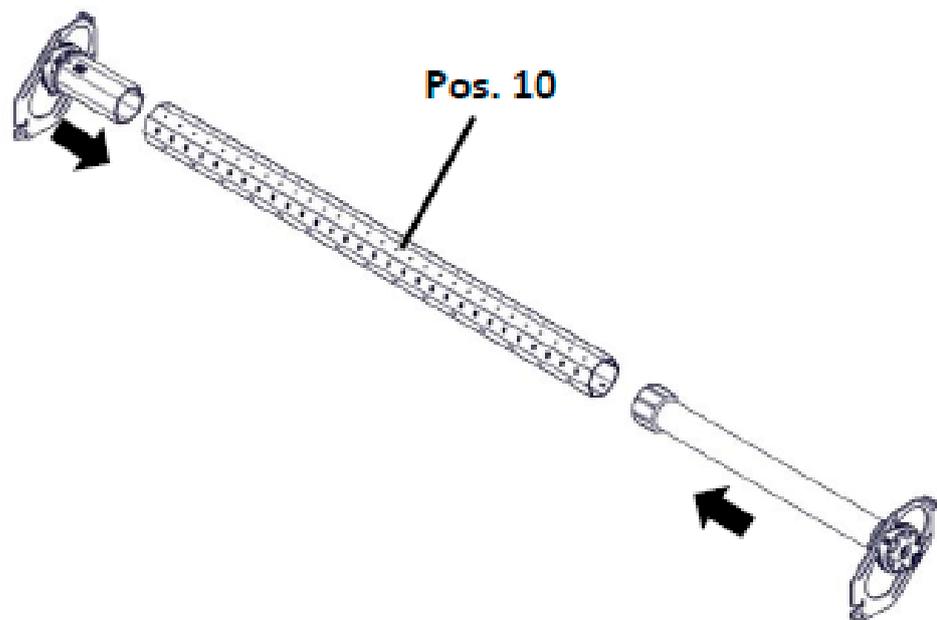
1× drive side



Connect the motor to the side piece (it will lock in place).

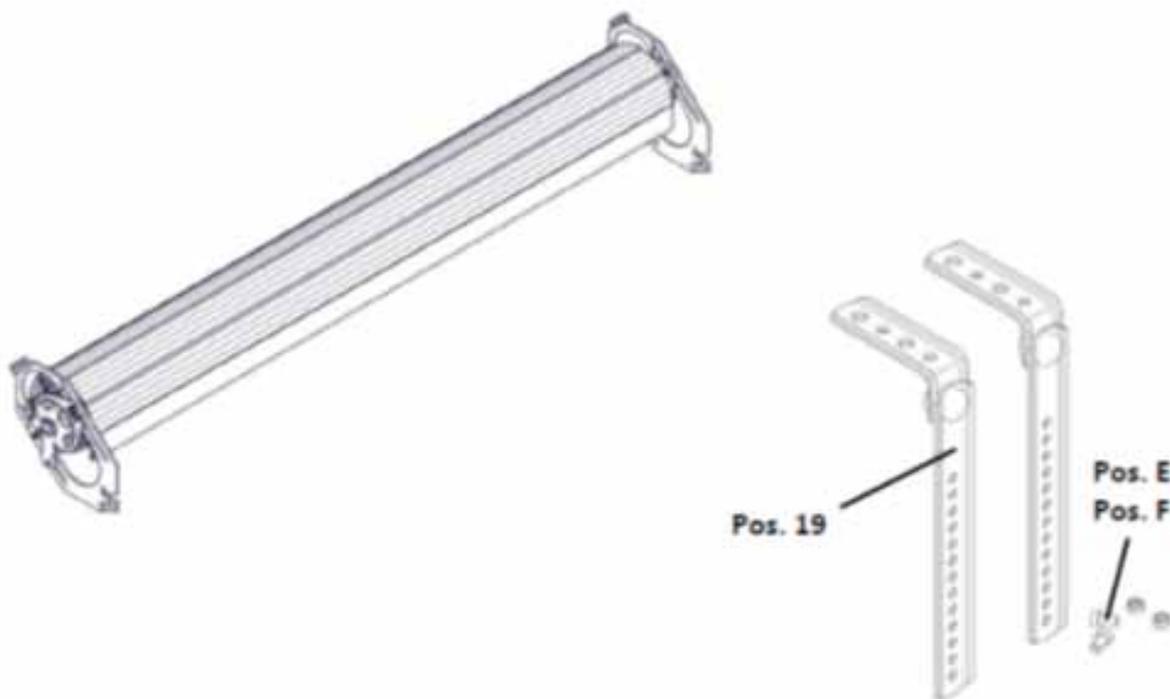
### Assembly of the shaft

Slide the shaft through the side p

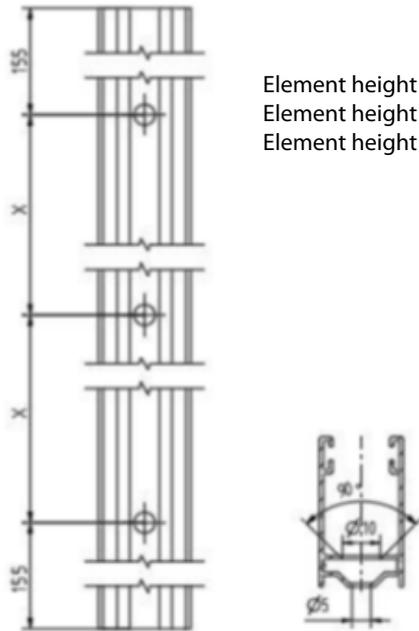


Attach the curtain to the shaft and roll it to the shaft.

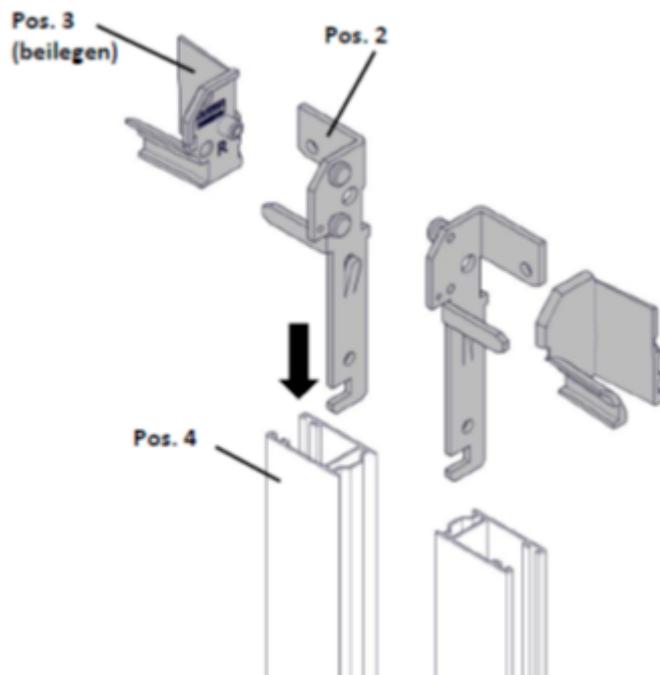
Place the assembly to the ceiling (Item 19, Item E, Item F).



## Guide rail (chamberless NB-N22)

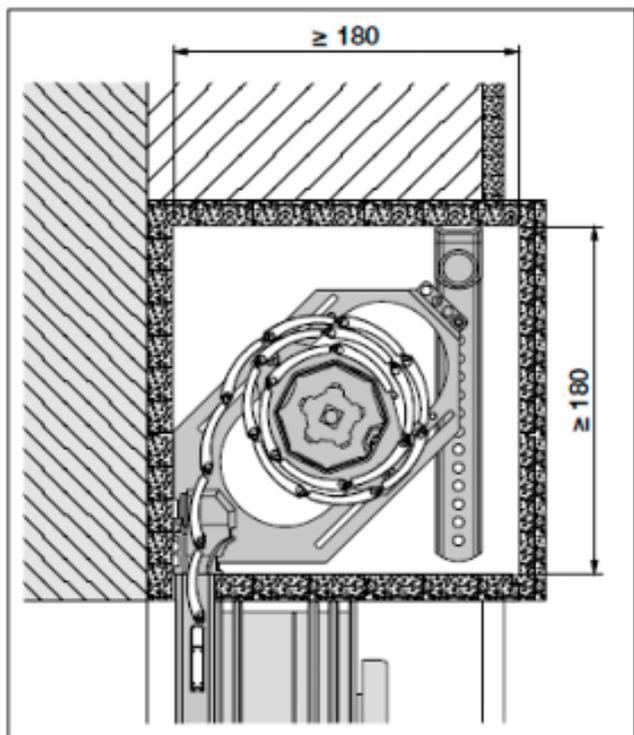
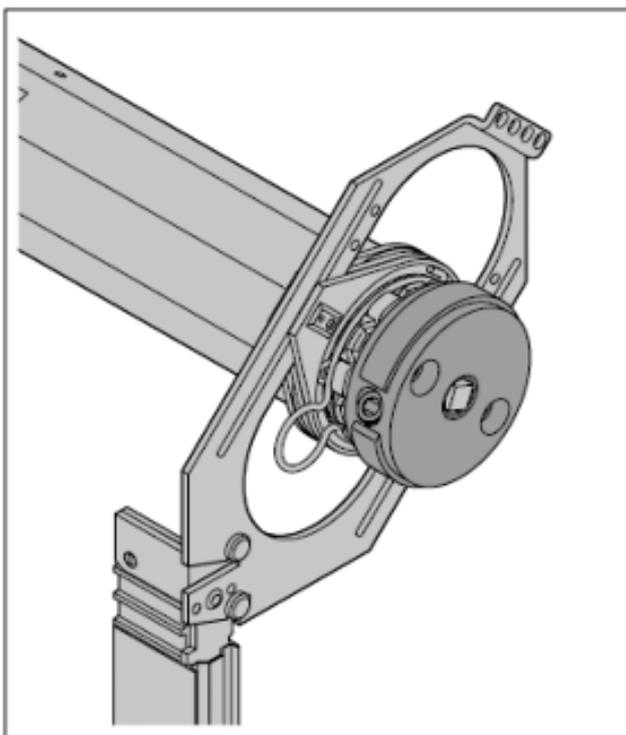
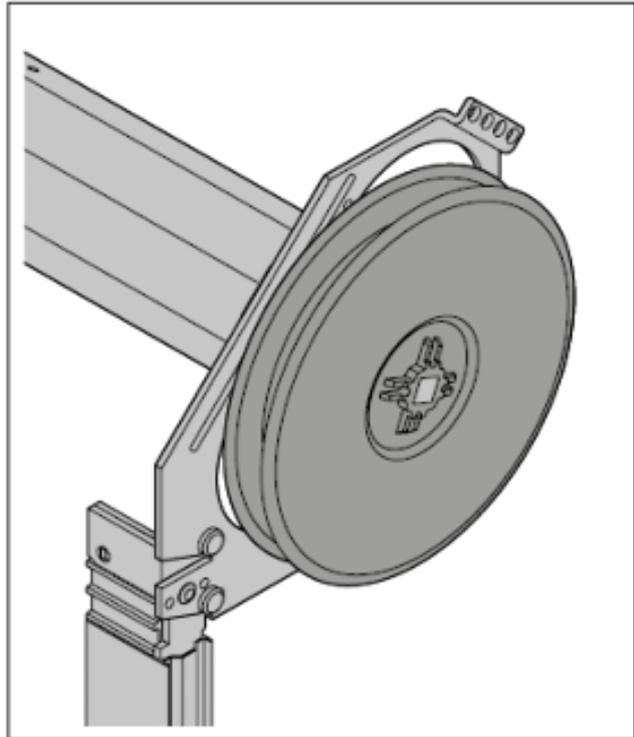
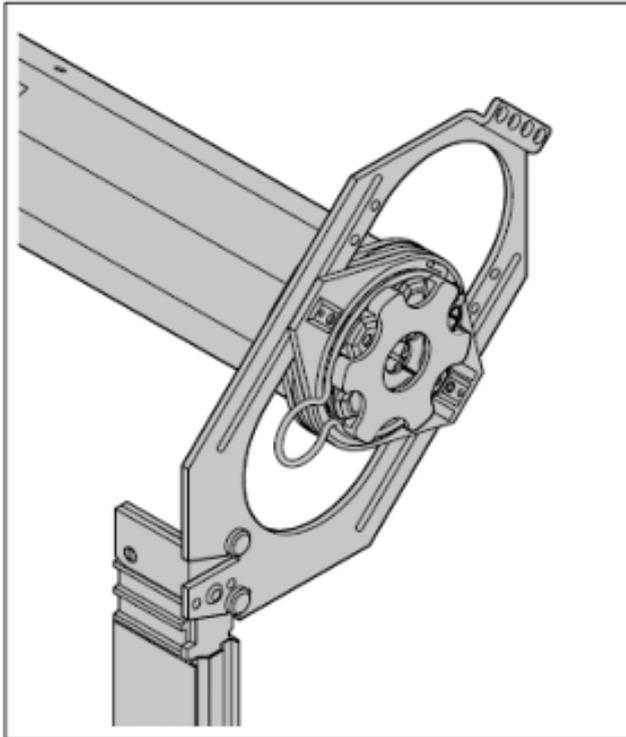
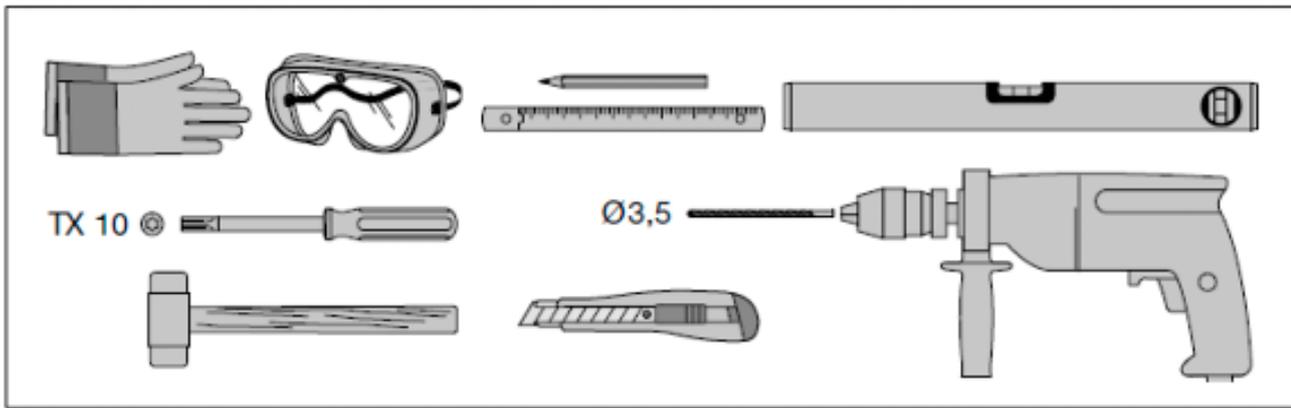


Element height up to 150 cm -> 2 holes in the guide rail  
Element height up to 250 cm -> 3 holes in the guide rail  
Element height exceeding 250 cm -> 5 holes in the guide rail

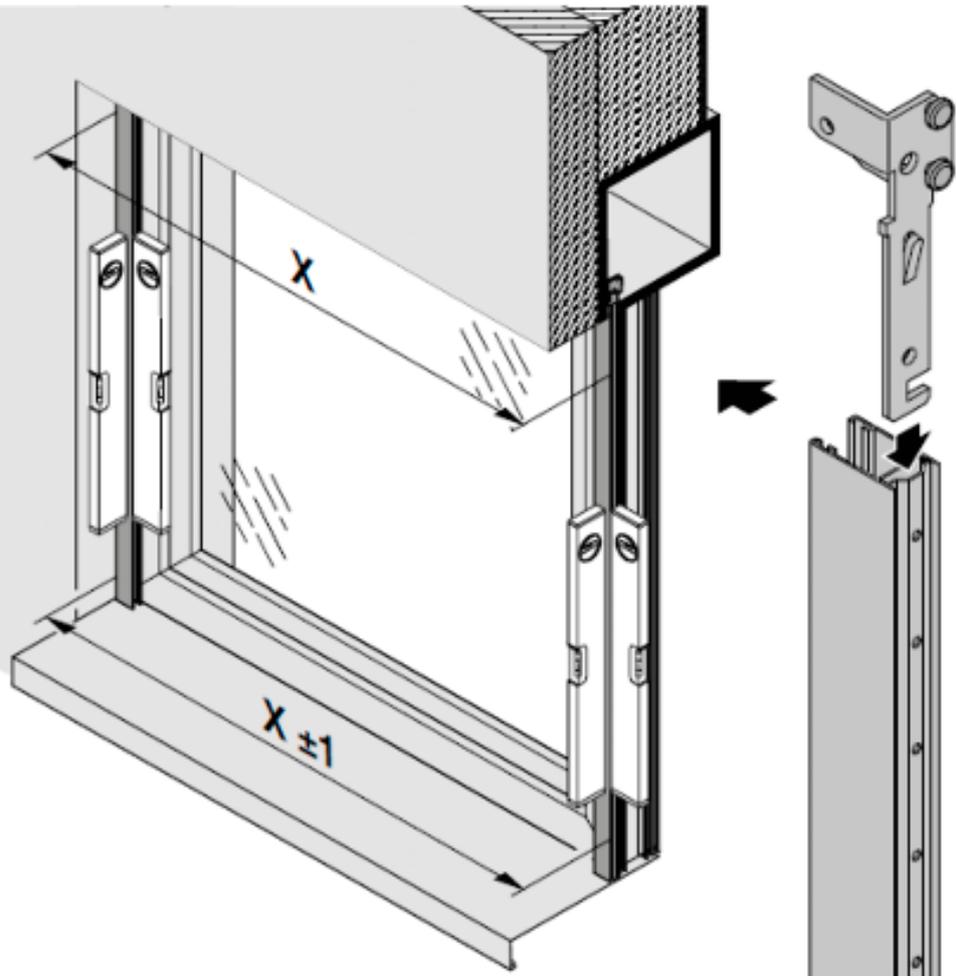


Slide the foot (Item 2) in the guide rail chamber (Item 4). Apply the input funnel (Item 3).

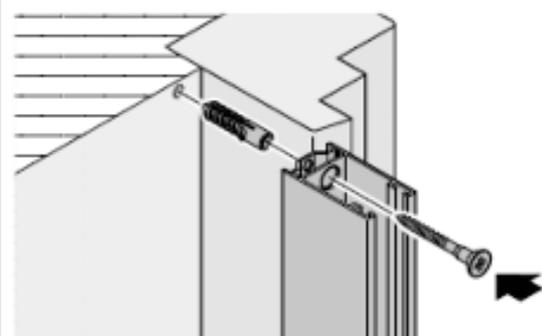
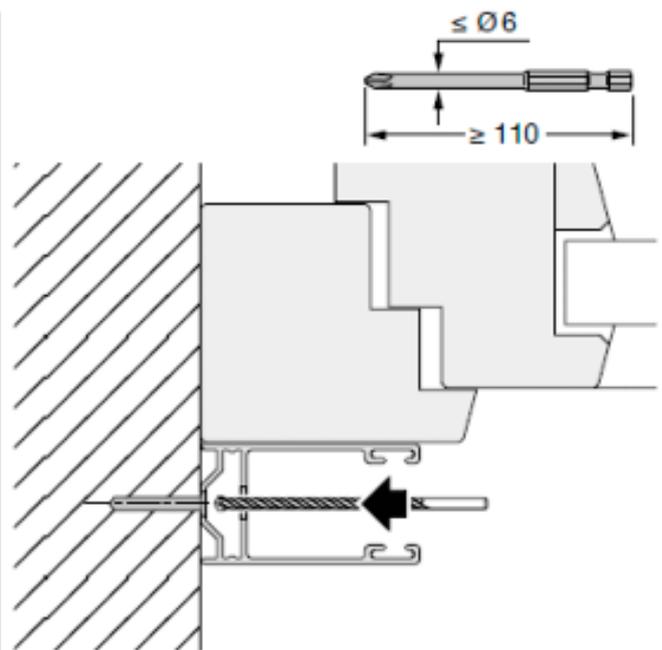
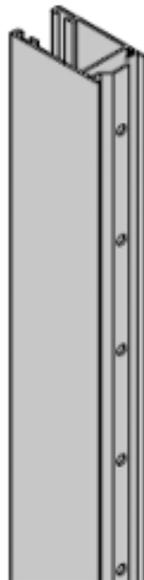
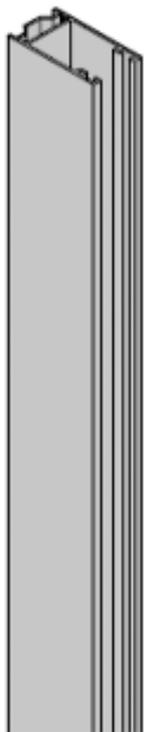
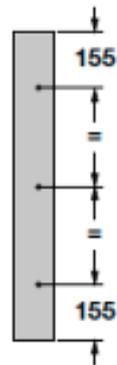
## Measurements and installation

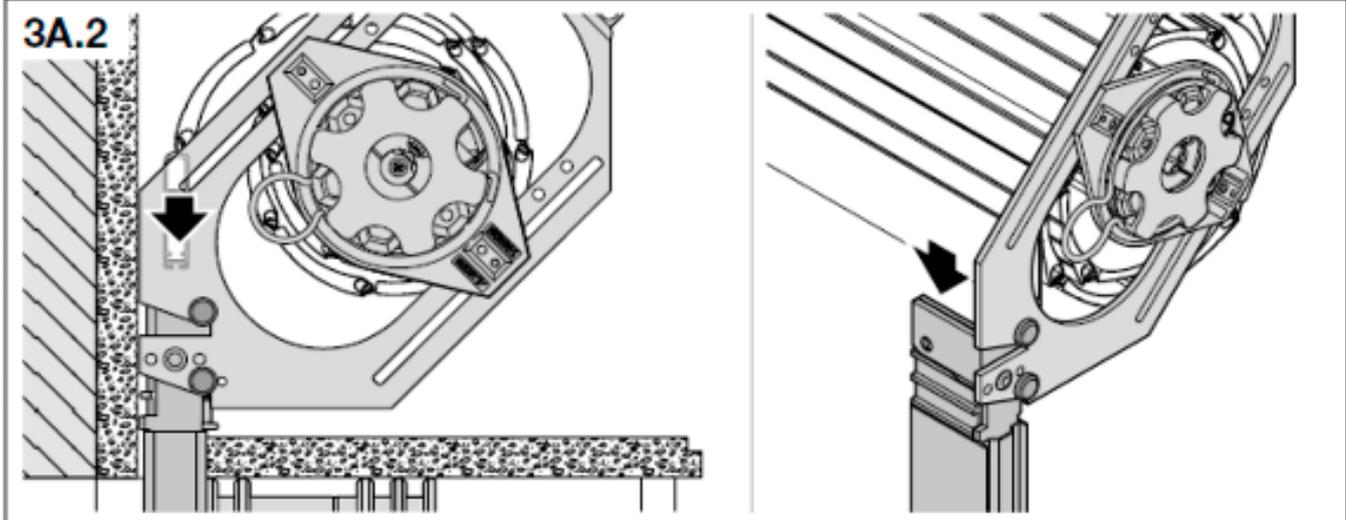
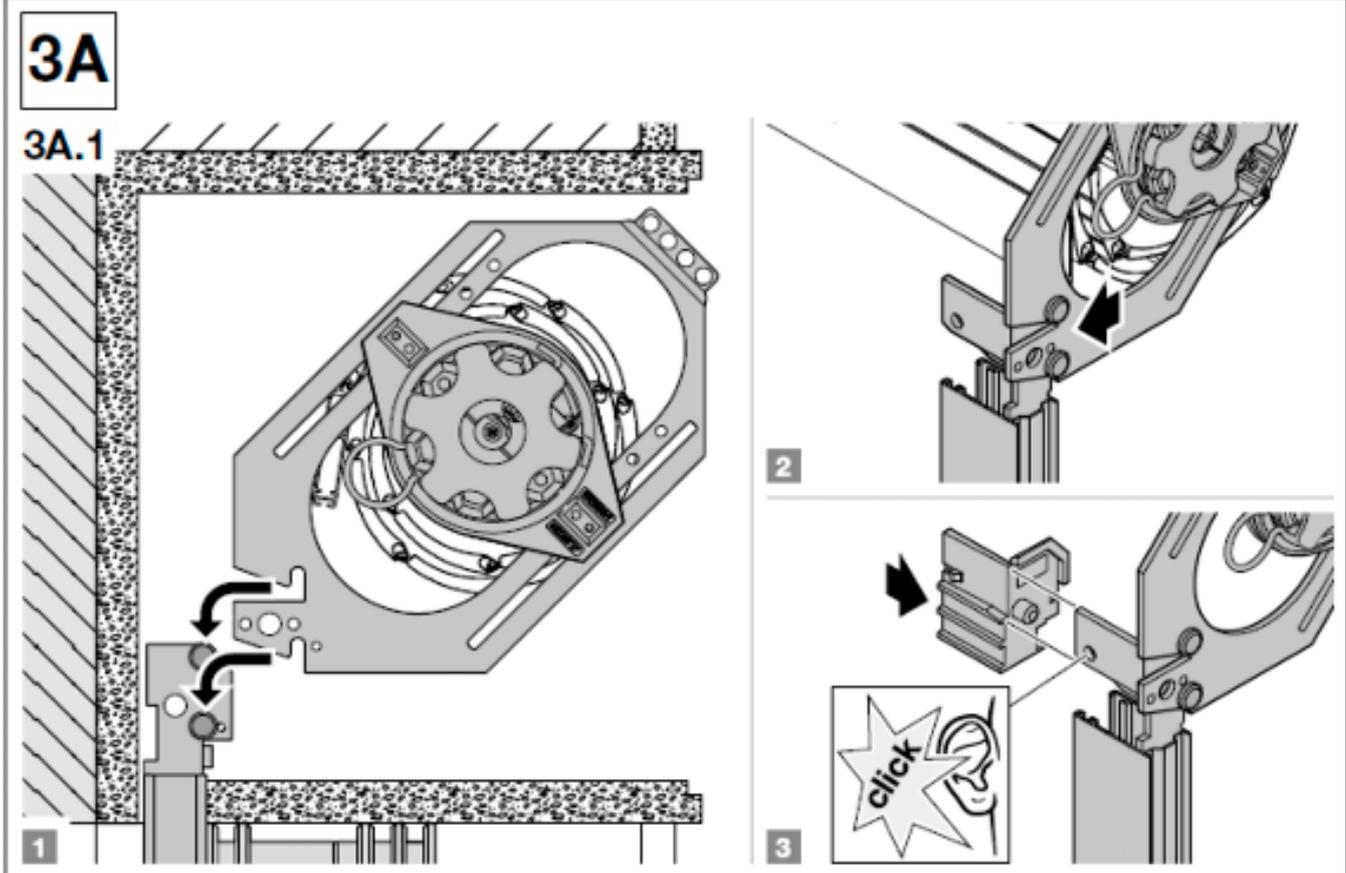
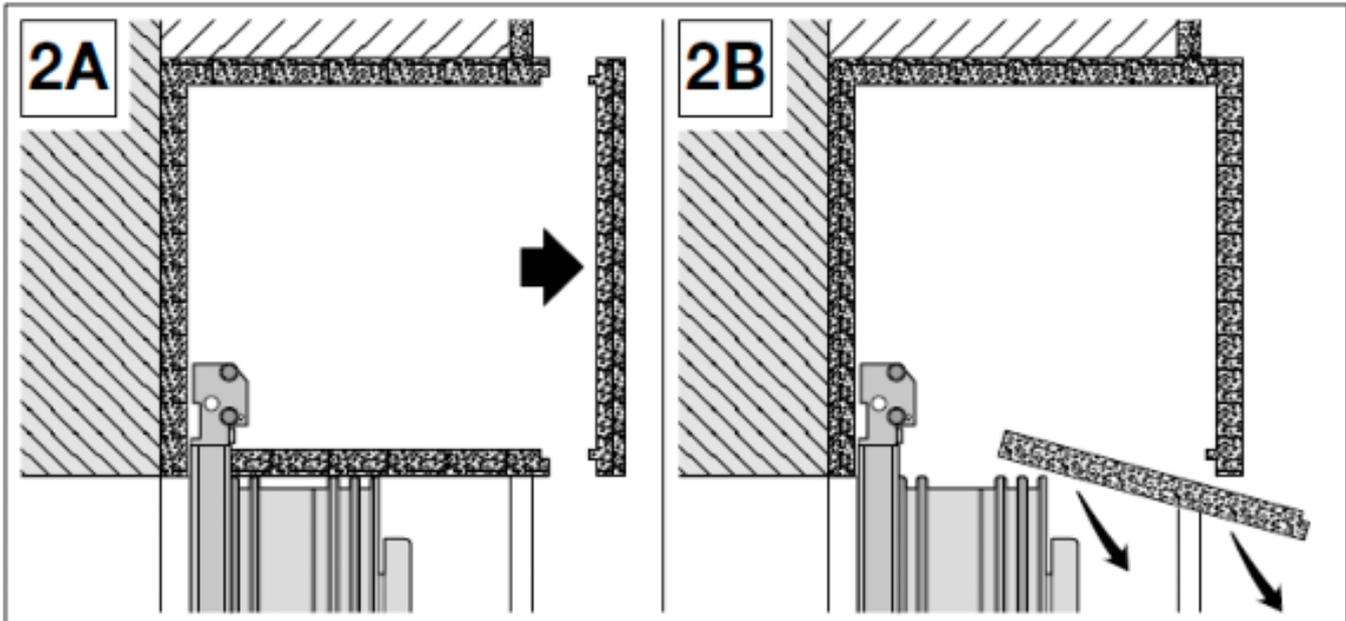


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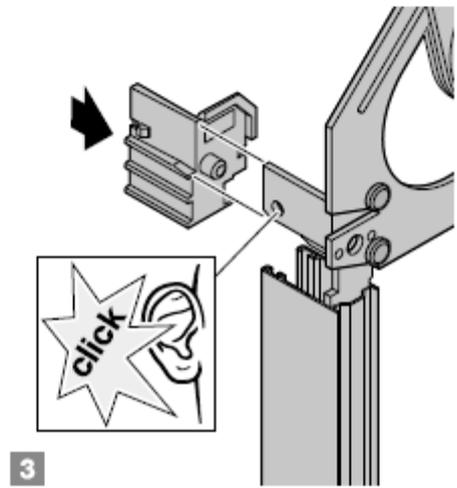
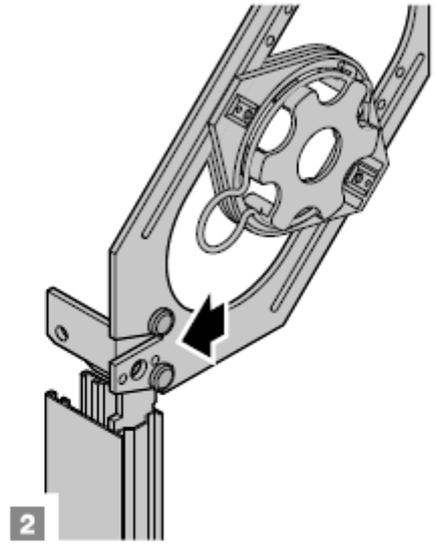
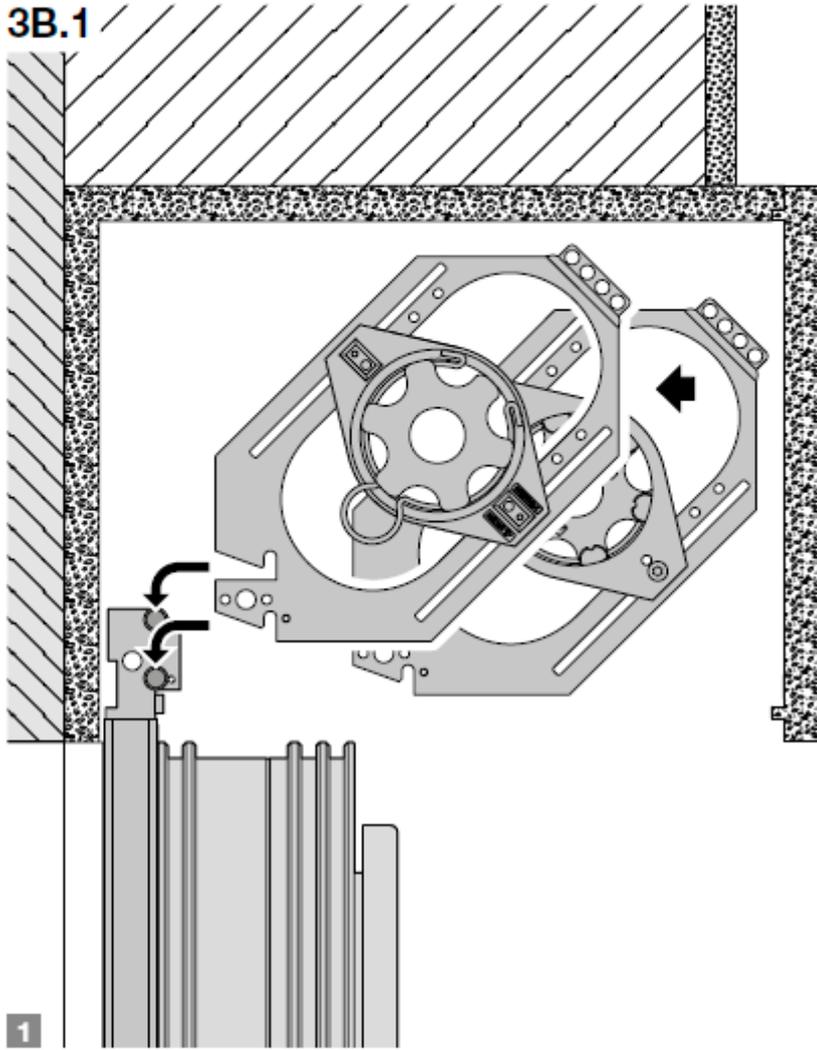
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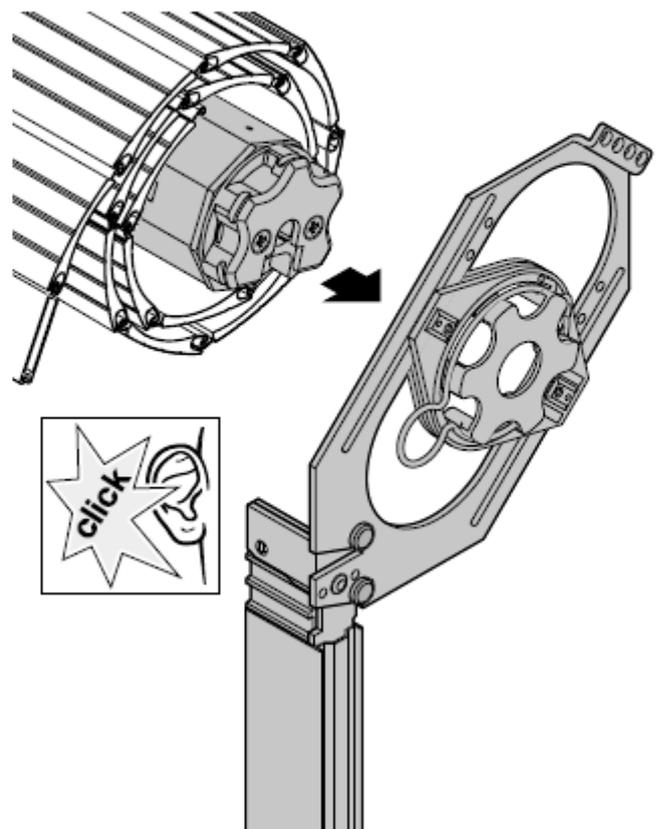
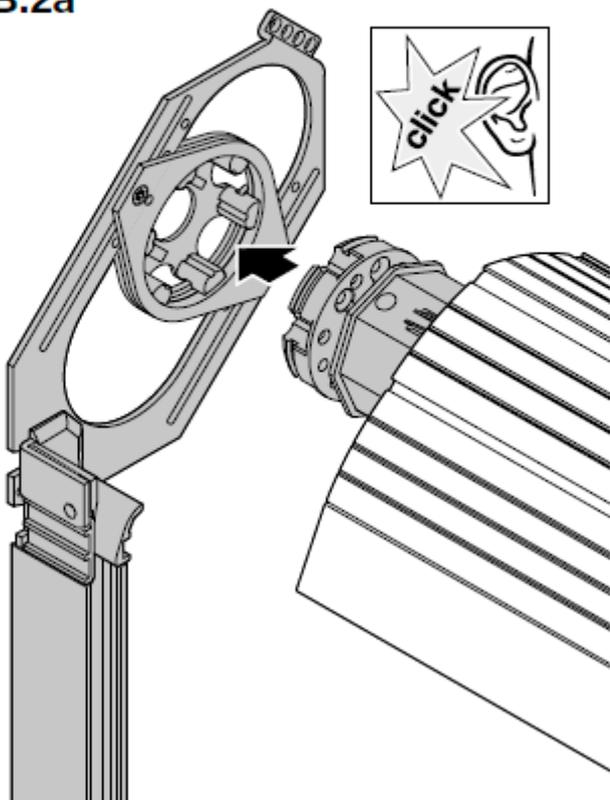


# 3B

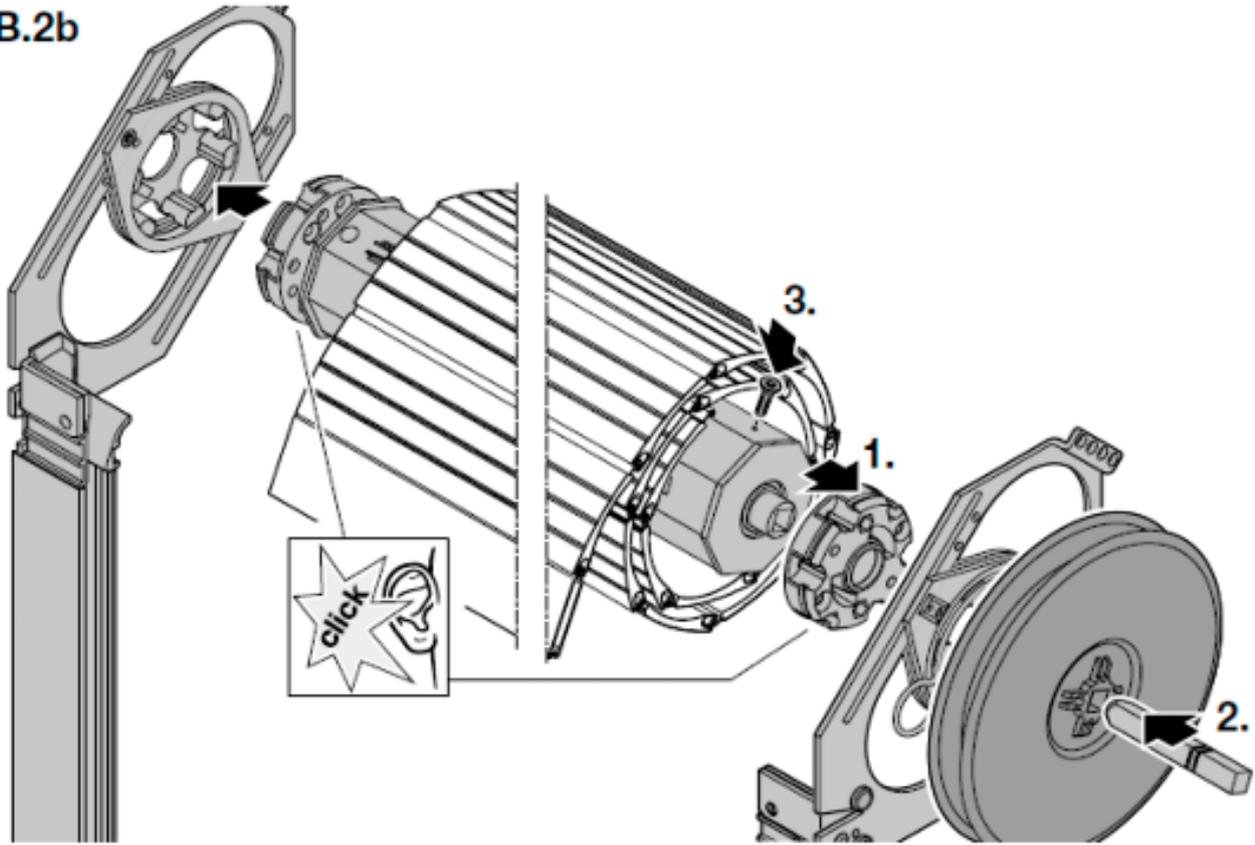
## 3B.1



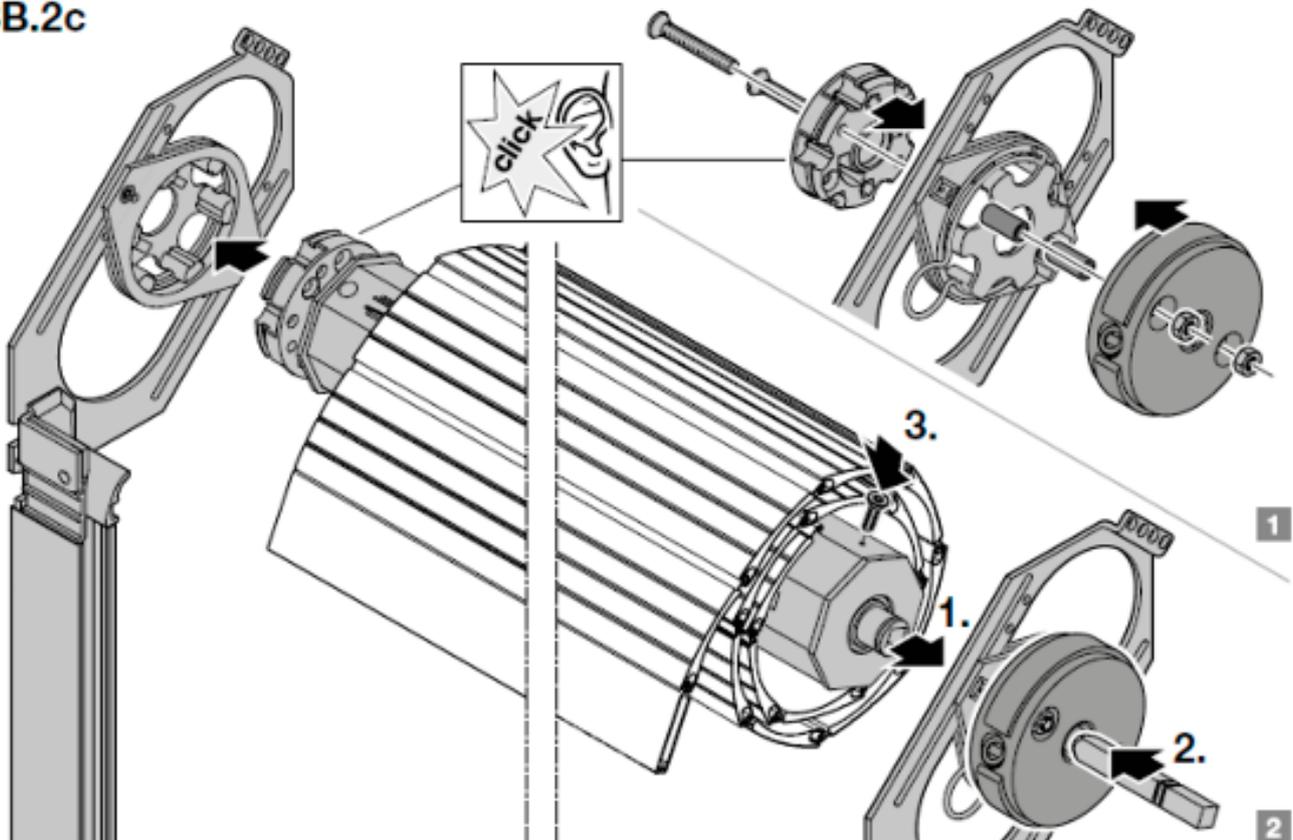
## 3B.2a



3B.2b

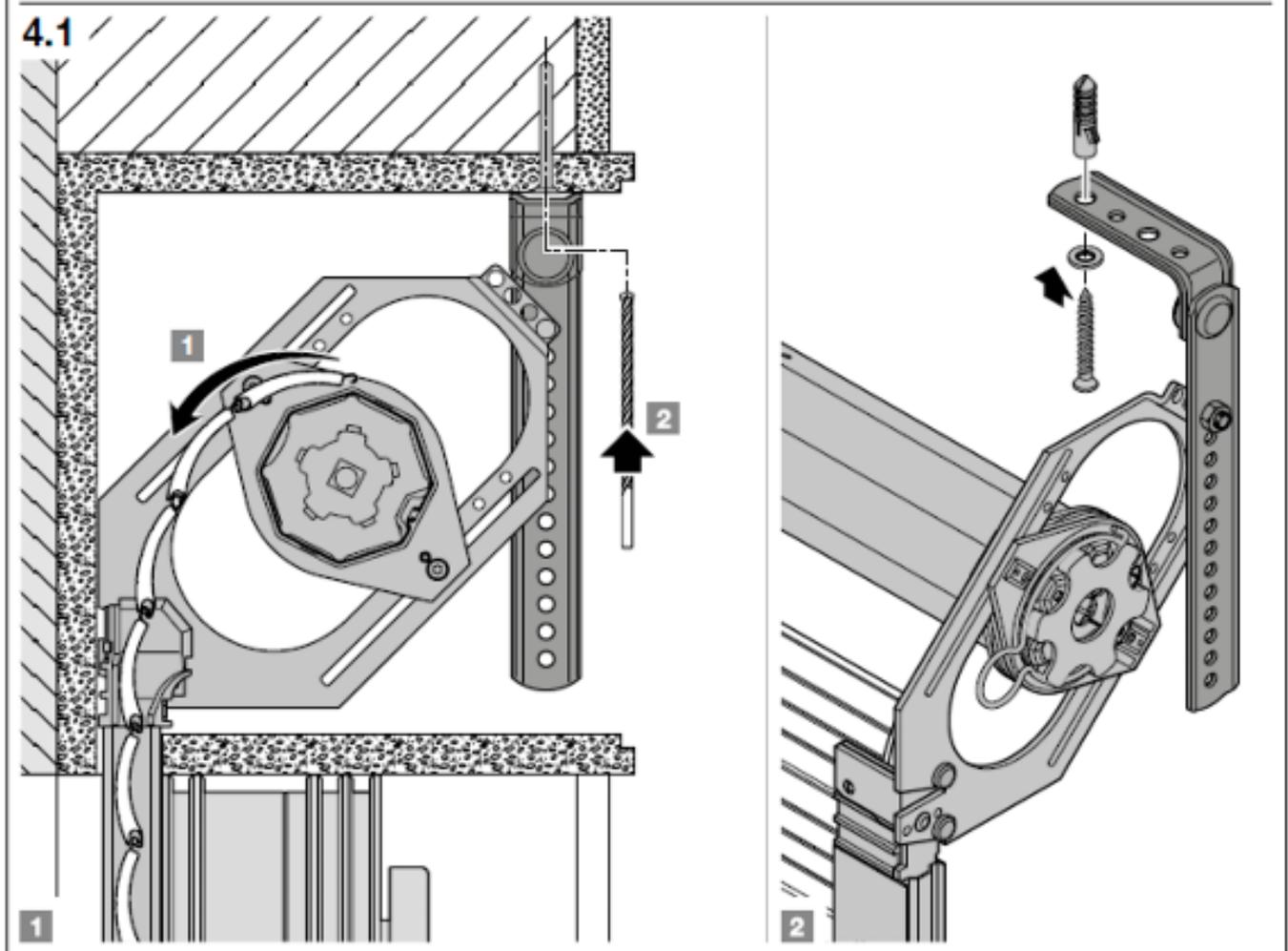
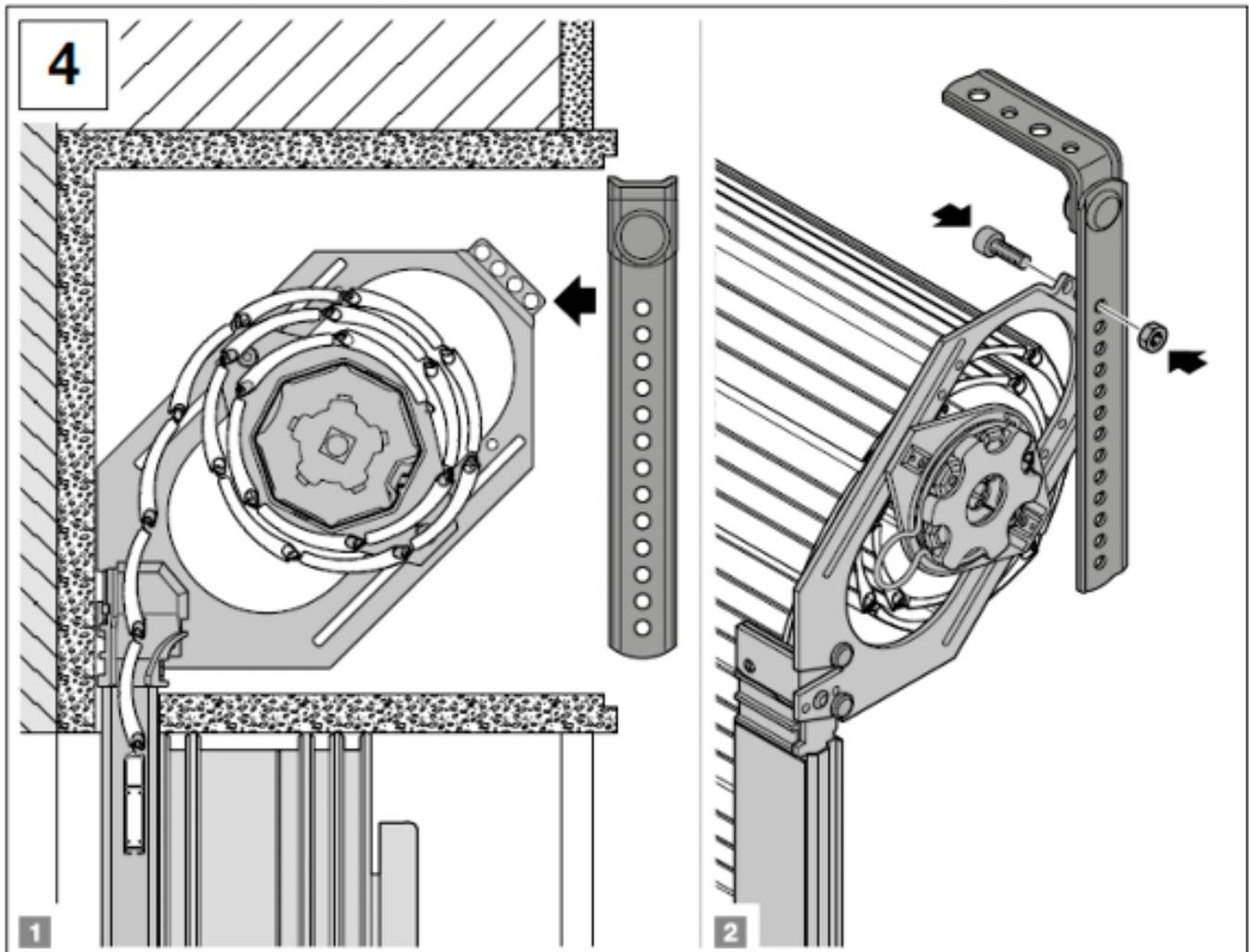


3B.2c

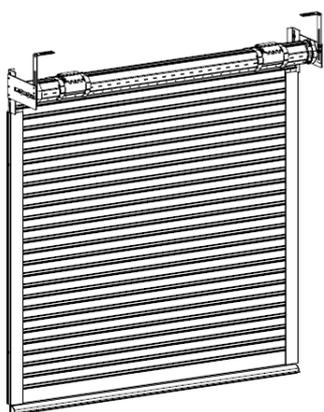
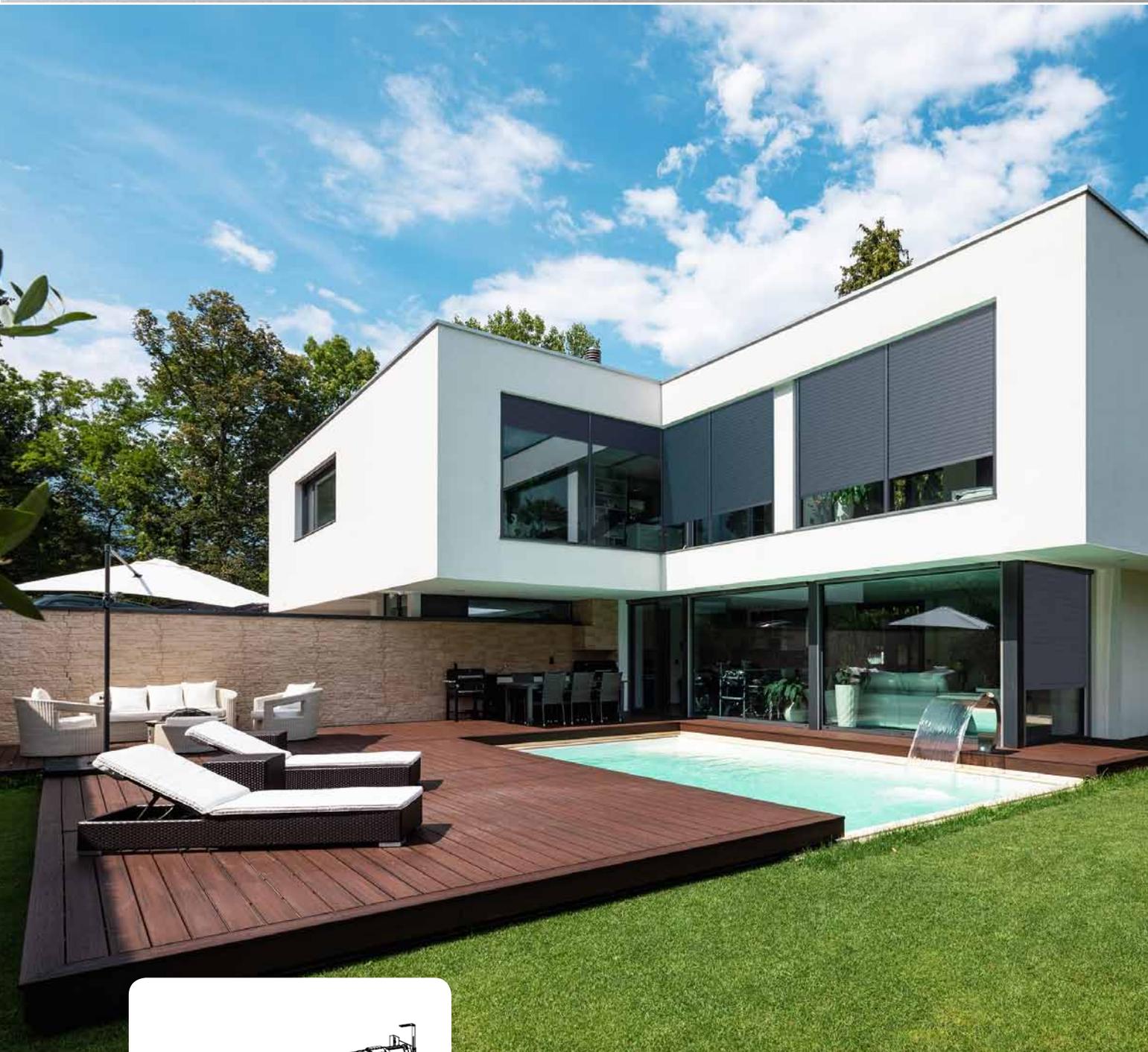


3B.3





## SALVIS

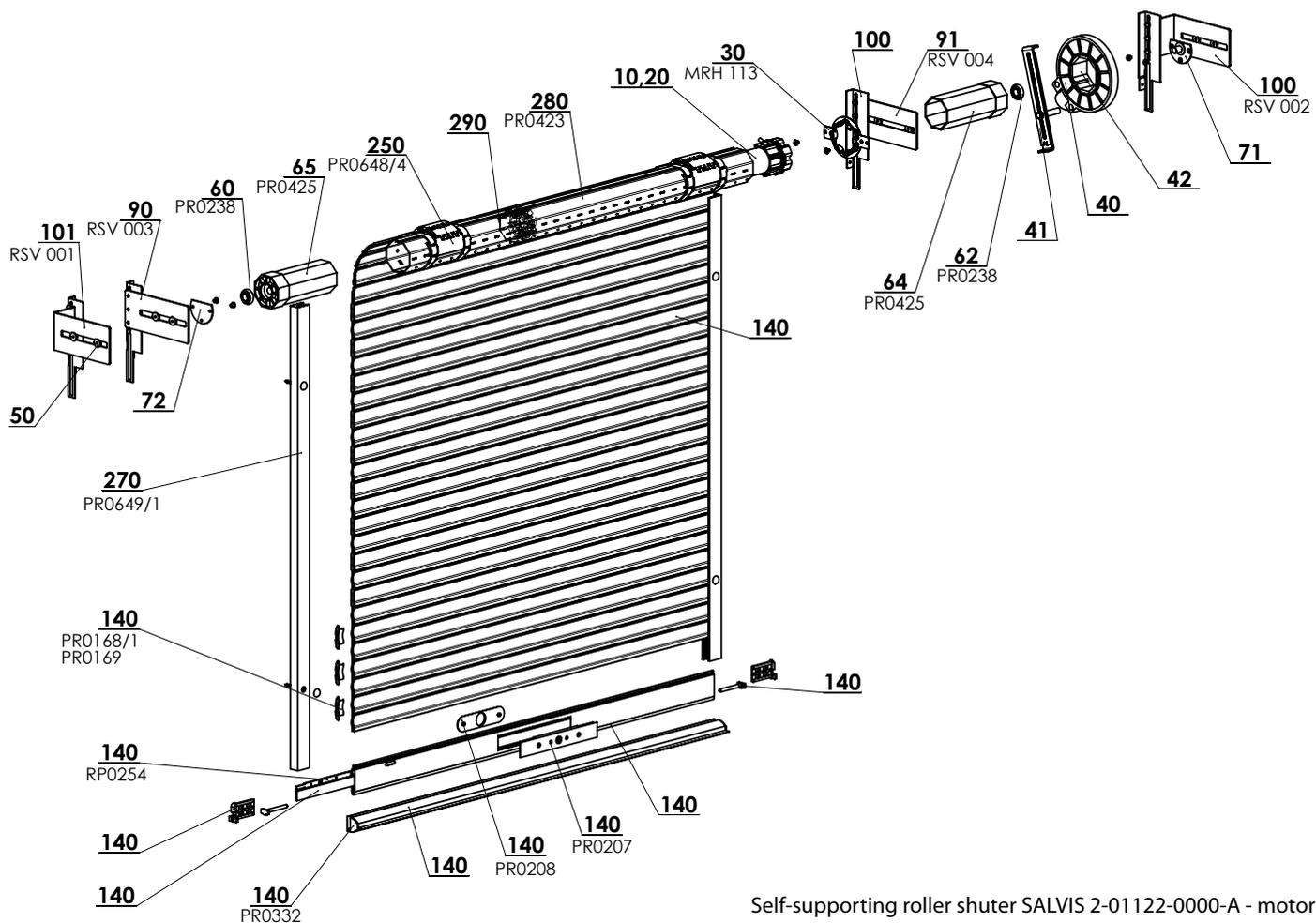


- ▲ Self-supporting
- ▲ For load-bearing lintels in new as well as renovated buildings
- ▲ Electric controls possible
- ▲ Made of high-quality, durable materials

**ISOTRA** *Quality*

# SALVIS External Roller Shutter

## Basic product specification



Self-supporting roller shutter SALVIS 2-01122-0000-A - motor

### Standard dimensions

#### Slat M317

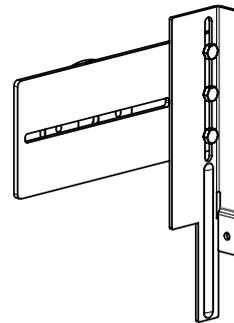
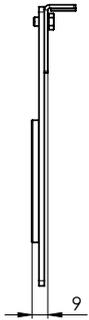
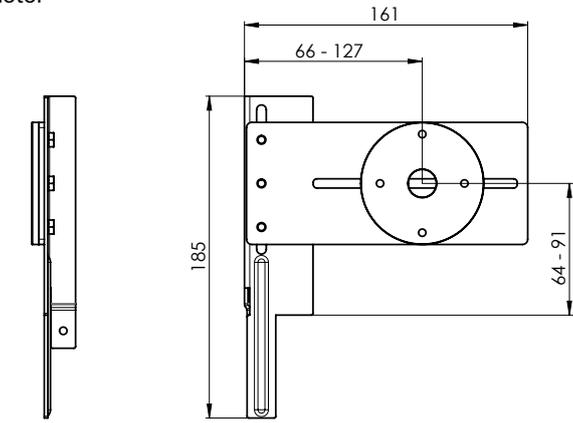
Controls	Width (mm)		Height (mm)		Guaranteed area (m <sup>2</sup> )
	min.	max.	min.	max.	max.
Motor	740	2900	1130	5880	6,5
Solar motor	840	2500	400	3000	5,5
Handle	400	2900	400	5880	6,5

#### Slat MY442

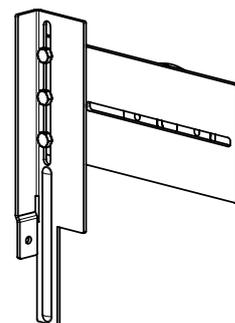
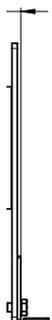
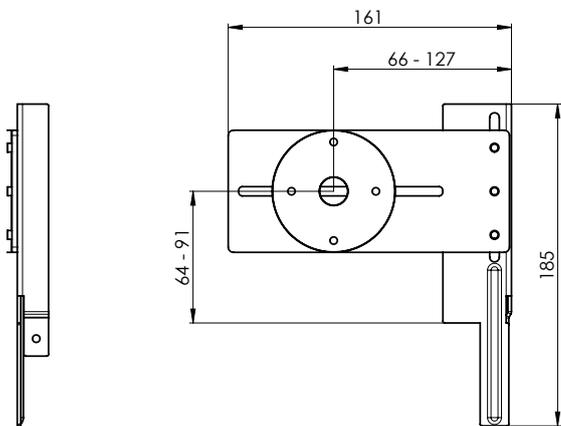
Controls	Width (mm)		Height (mm)		Guaranteed area (m <sup>2</sup> )
	min.	max.	min.	max.	max.
Motor	740	4000	1370	4370	8,5
Solar motor	840	2500	400	3000	5,5

Controls

Motor



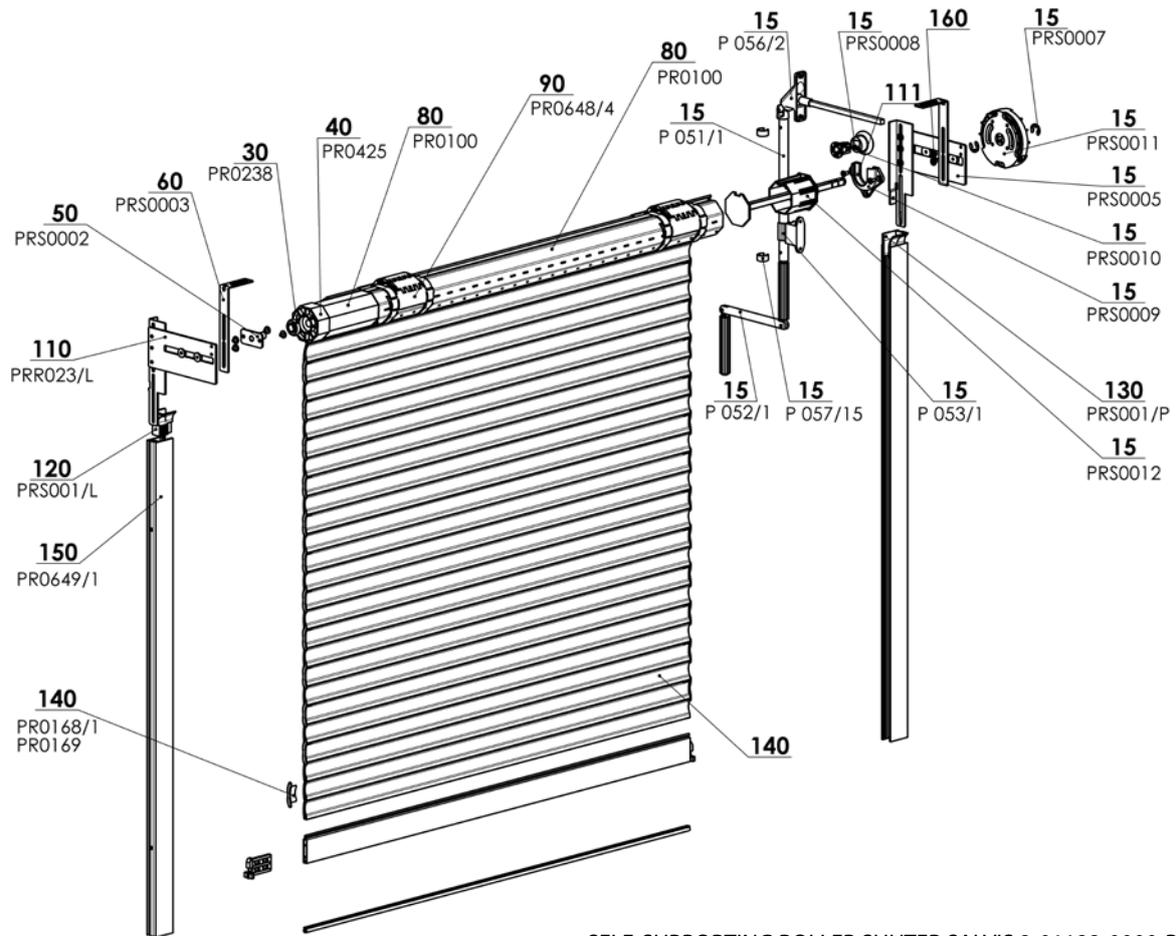
BEARING / MOTOR HOLDER – RIGHT RVS 003 2-01348-XXX-1



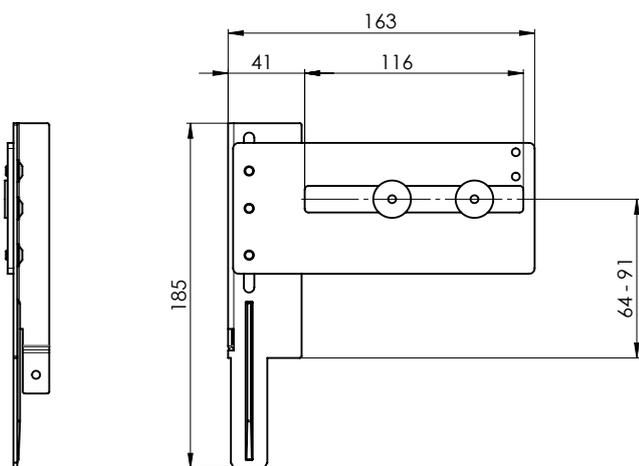
BEARING / MOTOR HOLDER – LEFT RVS 004 2-01349-XXX-1

# SALVIS External Roller Shutters HANDLE

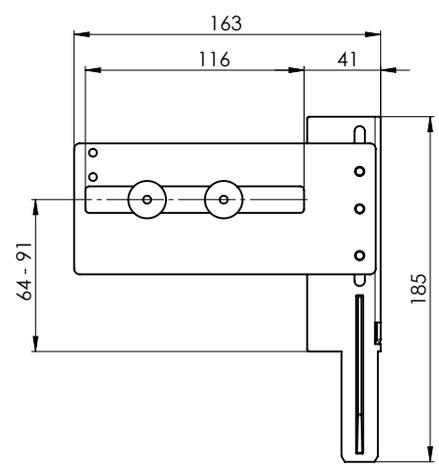
Basic product specification



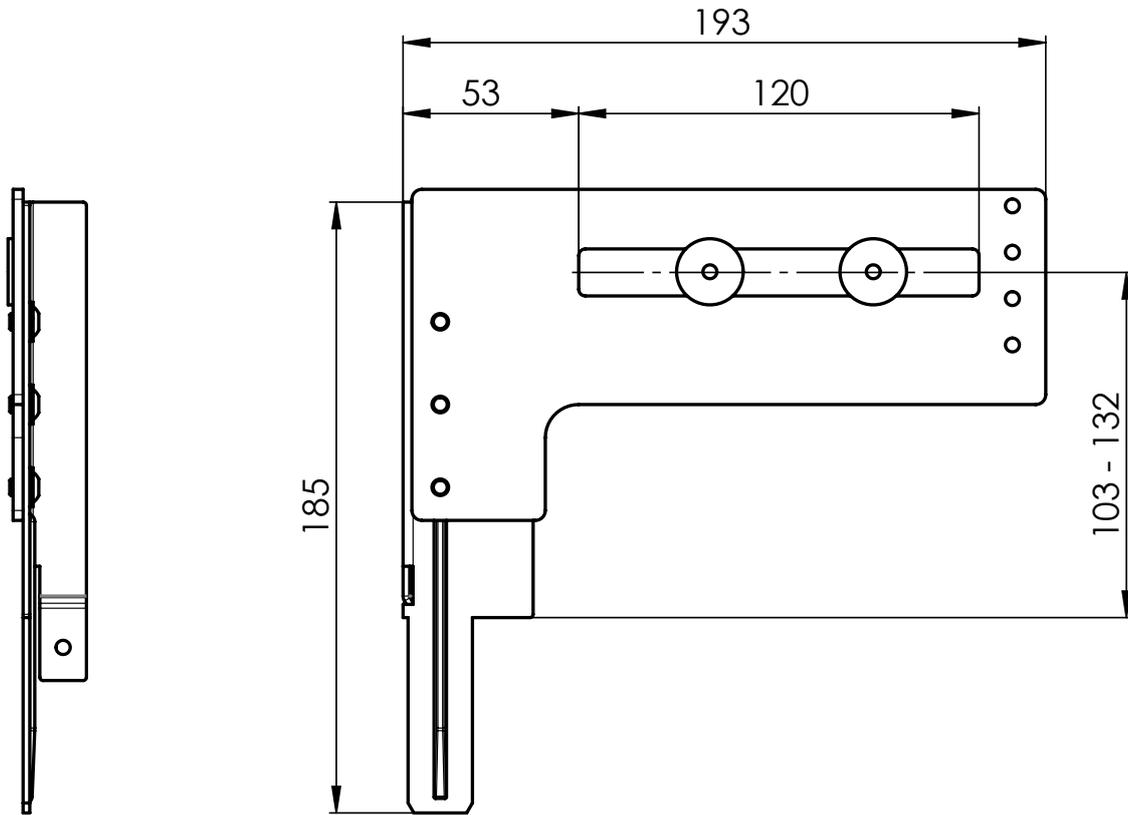
SELF-SUPPORTING ROLLER SHUTTER SALVIS 2-01122-0000-B – HANDLE



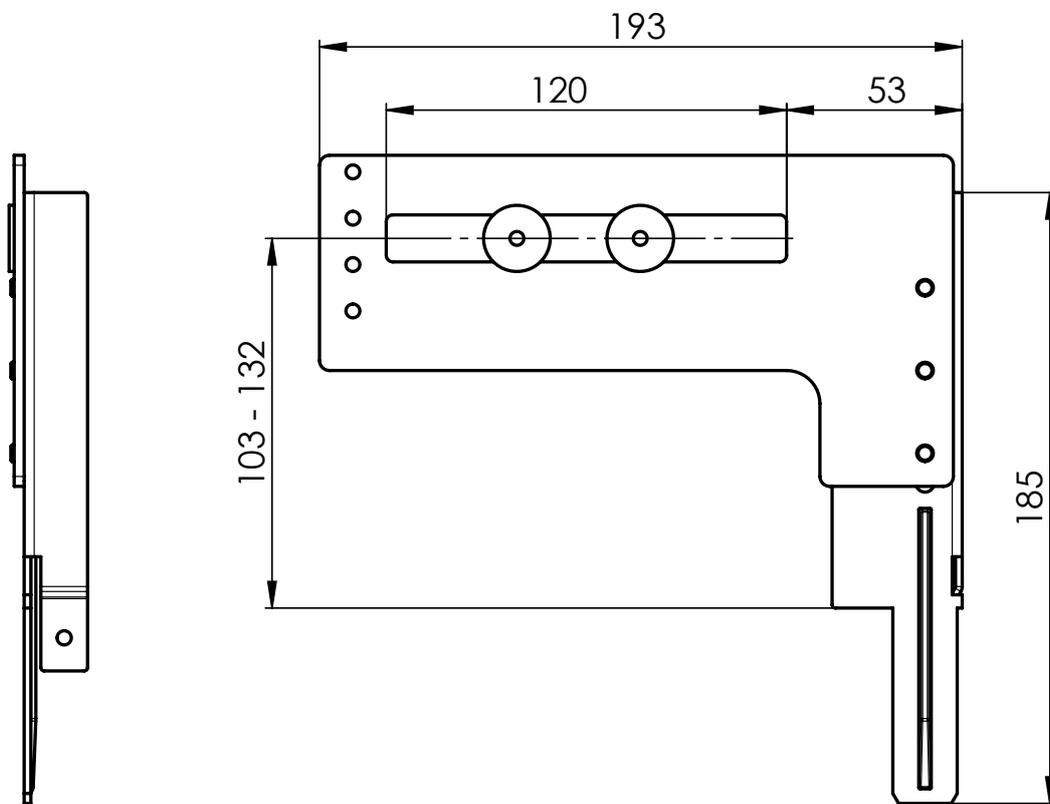
HANDLE HOLDER – RIGHT PRS0015/P 2-01912-XXXX-0



HANDLE HOLDER – LEFT PRS0015/L 2-01913-XXXX-0



EXPANDED HANDLE HOLDER – RIGHT PRS0014/P 2-01914-XXXX-0

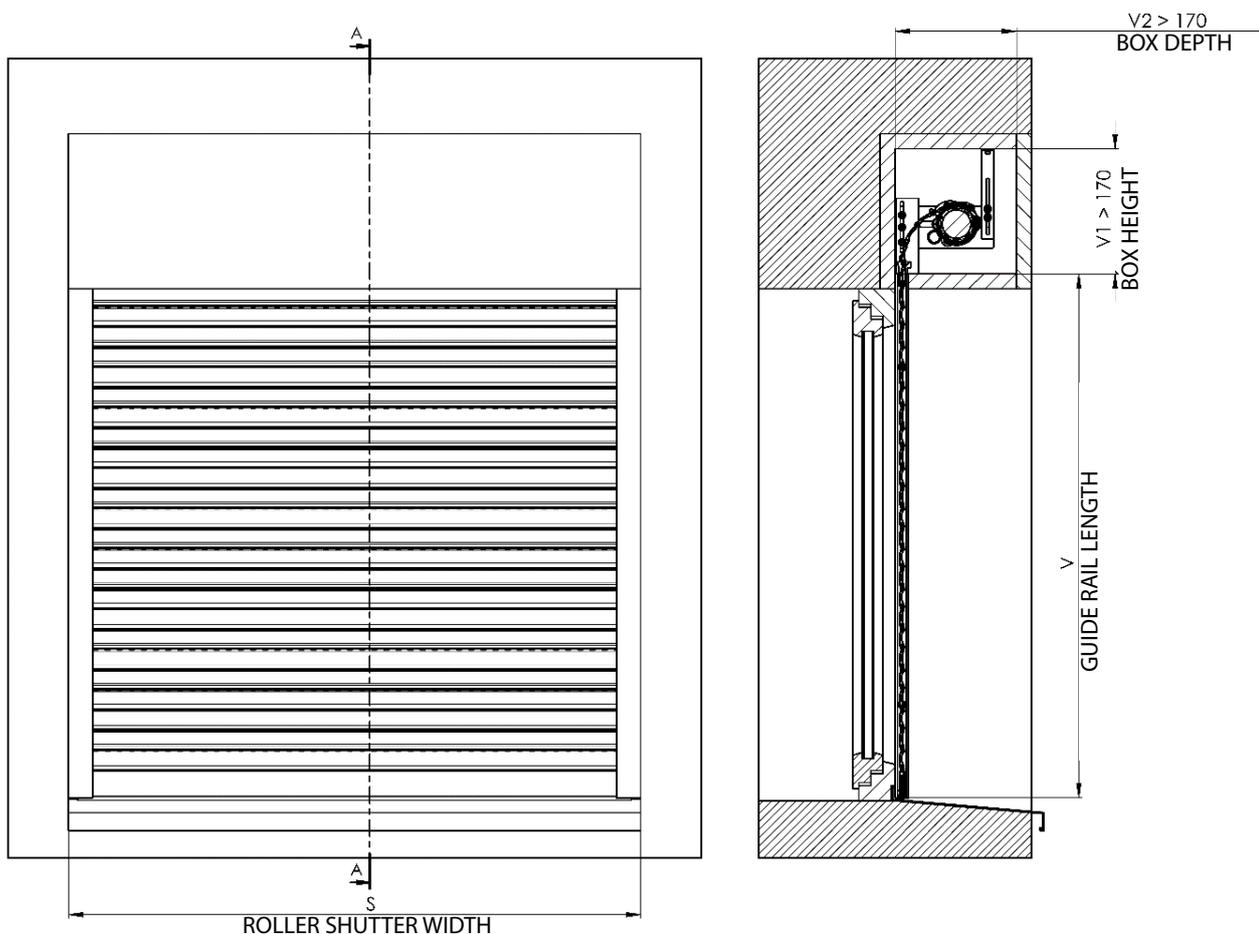


EXPANDED HANDLE HOLDER – LINDS PRS0014/L 2-01915-XXXX-0

**Salvis (2-01122-0000)**

Item	Item name	trade name	drawing number
10	Plastic gear 6:1, 8mm, 10mm.8 Nm	PRS0007	6-014083-0000
10	Motors (SOMFY) EX. ROLLER SHUTTERS		2-00534-0000
20	Bearing 40x15,2, recessed square,plastic	PRS0008	6-014081-0000
20	Motors (GEIGER) EX. ROLLER SHUTTERS		2-00565-0000
30	Bearing holder 40, metal	PRS0009	6-014082-0000
30	Ball bearing 12 mm, with edge	PR0238	6-002480-0000
40	PVC shaft end piece,SW 60,10mm,250mm	PRS0012	6-014084-0000
40	Cylindrical plug 150 mm	PR0425	6-012146-0000
50	Bearing reducer for handle	PRS0010	7-304620-0000
50	Pin	PRS0002	3-04439-0000
60	Lock ring 8, DIN 6799		6-014425-0000
60	Holder	PRS0003	3-04440-0000
70	Bolt M5x10 A2 DIN 7991		6-017206-0000
70	Universal holder for awnings	XY 00012	6-009254-0000
80	Handle holder, right	PRS0015/P	2-01912-PU22
80	Octagonal steel shaft 60 mm	PR0100	6-001875-0000
80	Octagonal steel shaft 60 mm	PR0100	6-001875-0000
90	Handle holder, left	PRS0015/L	2-01913-PU22
90	Octoeasy link – two-part, shaft 60 mm, box 180–205	PR0648/4	6-013920-0000
91	Octoeasy link – two-part, shaft 60 mm, box 180–205	PR0648/4	6-013920-0000
92	Octoeasy link – two-part, shaft 60 mm, box 180–205	PR0648/4	6-013920-0000
100	Handle holder, right	PRS0015/P	2-01912-PU22
100	Universal carrier	PR0423	6-008041-0000
110	Handle holder, left	PRS0015/L	2-01913-PU22
110	Shaft / motor holder, left	PRR023/L	2-01349-PU22
111	Shaft / motor holder, right	PRR023/P	2-01348-PU22
120	Expanded handle holder, left	PRS0014/L	2-01915-PU22
120	Lead for self-supporting roller shutter – L	PRS0001/L	3-04437-0000
130	Expanded handle holder, right	PRS0014/P	2-01914-PU22
130	Lead for self-supporting roller shutter – R	PRS0001/R	3-04438-0000
140	Expanded handle holder, right	PRS0014/P	2-01914-PU22
140	Roller shutter slat – (CURTAIN) + sale	PANCIR VR	2-00616-0000
150	Expanded handle holder, left	PRS0014/L	2-01915-PU22
150	Guide rail STS	PRR016/1	7-304436-0000
160	Bearing holder / motor, left	PRR023/L	2-01349-PU22
160	Allen bolt with convex head and flange M5x6 Zn		6-006944-0013
170	Bearing holder / motor, right	PRR023/P	2-01348-PU22
180	Bearing holder / motor, left	PRR023/L	2-01349-PU22
190	Bearing holder / motor, right	PRR023/P	2-01348-PU22
200	Expanded holder left	PRS0013/L	2-01876-PU22
210	Expanded holder right	PRS0013/P	2-01875-PU22
220	Expanded holder left	PRS0013/L	2-01876-PU22
230	Expanded holder right	PRS0013/P	2-01875-PU22
240	Complete handle ( 90° ) - Salvis - 1,2m	PRS0017/1200	2-01919-1200
240	Complete handle ( 90° ) - Salvis - 1,3m	PRS0017/1300	2-01919-1300
240	Complete handle ( 90° ) - Salvis - 1,4m	PRS0017/1400	2-01919-1400
240	Complete handle ( 90° ) - Salvis - 1,5m	PRS0017/1500	2-01919-1500
240	Complete handle ( 90° ) - Salvis - 1,6m	PRS0017/1600	2-01919-1600
290	Label CE-ČSN EN 13659 – SALVIS		7-302007-0057
300	Packing VR (+ GV)		2-00341-0000

## Measurement and installation

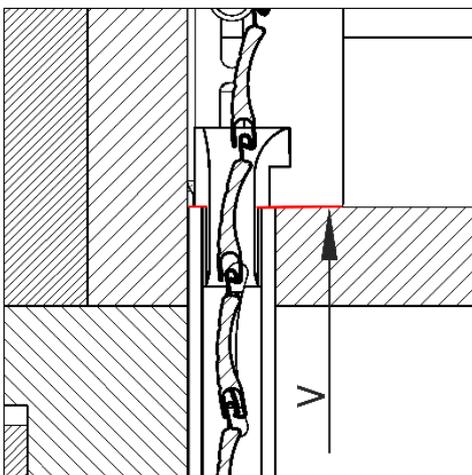


### 1. MEASURING

S – roller shutter width (from the lateral edge of one guide rail to the lateral edge of the other guide rail)

V – guide rail length

Always measure the width in at least three positions. The manufacturing dimension is always the minimum value measured. The height is specified by the guide rail length and the minimum box dimensions. The upper edge of the guide rail should link up to the inside of the box bottom. If the box has no lower edge, the minimum guide rail length must be up to the lower edge of the box front side. The box size is measured from the upper edge of the guide rail. The minimum inner dimensions of the box are  $170 \times 170$  mm. The values may differ while maintaining the minimum size. In any case, take measurements only after the window frame or complete window has been installed in the wall opening and the external and internal reveals incl. window sills are finished. The method of taking measurements for exterior blinds is so specific that we recommend consulting the technical aspects on site. Other specific solutions are also possible.



Upper edge of the guide rail links up to the inside wall of the box bottom.

## 2. RECOMMENDED MINIMUM BOX INTERNAL DIMENSIONS PER SLAT TYPE

### SLAT M317

V Up to 2200 - V1min, V2min 170mm  
 V Up to 2640 - V1min, V2min 180mm  
 V Up to 3080 - V1min, V2min 190mm  
 V Up to 3540 - V1min, V2min 200mm  
 V Up to 4000 - V1min, V2min 210mm  
 V Up to 4500 - V1min, V2min 220mm  
 V Up to 5000 - V1min, V2min 230mm  
 V Up to 5540 - V1min, V2min 240mm  
 V Up to 5900 - V1min, V2min 250mm

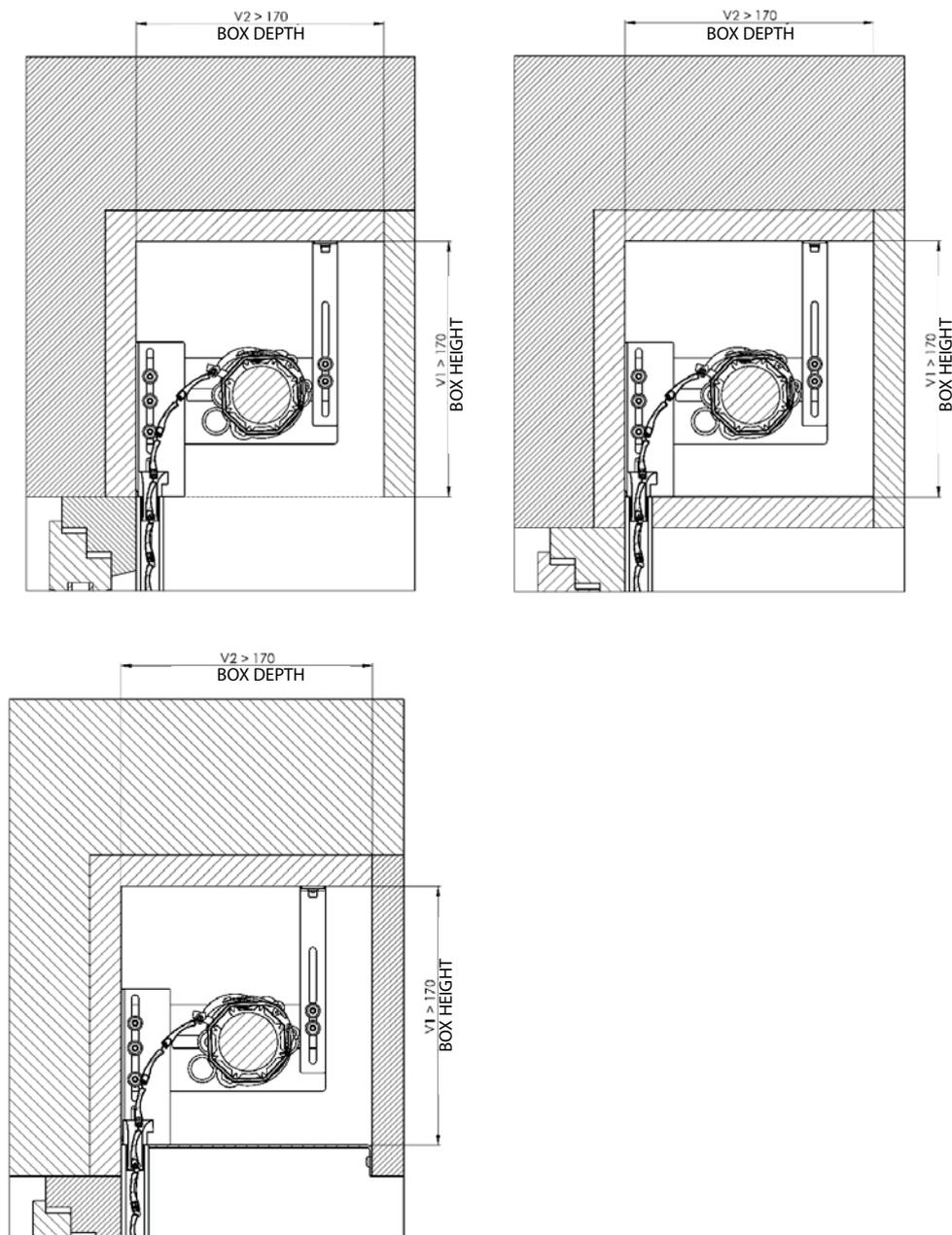
### SLAT M442

---  
 V Up to 1900 - V1min, V2min 180mm  
 V Up to 2170 - V1min, V2min 190mm  
 V Up to 2440 - V1min, V2min 200mm  
 V Up to 2700 - V1min, V2min 210mm  
 V Up to 2950 - V1min, V2min 220mm  
 V Up to 3230 - V1min, V2min 230mm  
 V Up to 3490 - V1min, V2min 240mm  
 V Up to 3750 - V1min, V2min 250mm

### 1) Limits

Slat	M317	M 442
Slat height	43,6 mm	48,8 mm
Thickness	7,6 mm	9,3 mm
Cover height	37 mm	42 mm
Weight	2,8 kg/m <sup>2</sup>	2,85 kg/m <sup>2</sup>
Min width	Motor length + 170 mm	Motor length + 170 mm
Max width	2900 mm	4000 mm
Max area	6,5 m <sup>2</sup>	8,5 m <sup>2</sup>

### Possible box versions



### 3. INSTALLATION - MOTOR

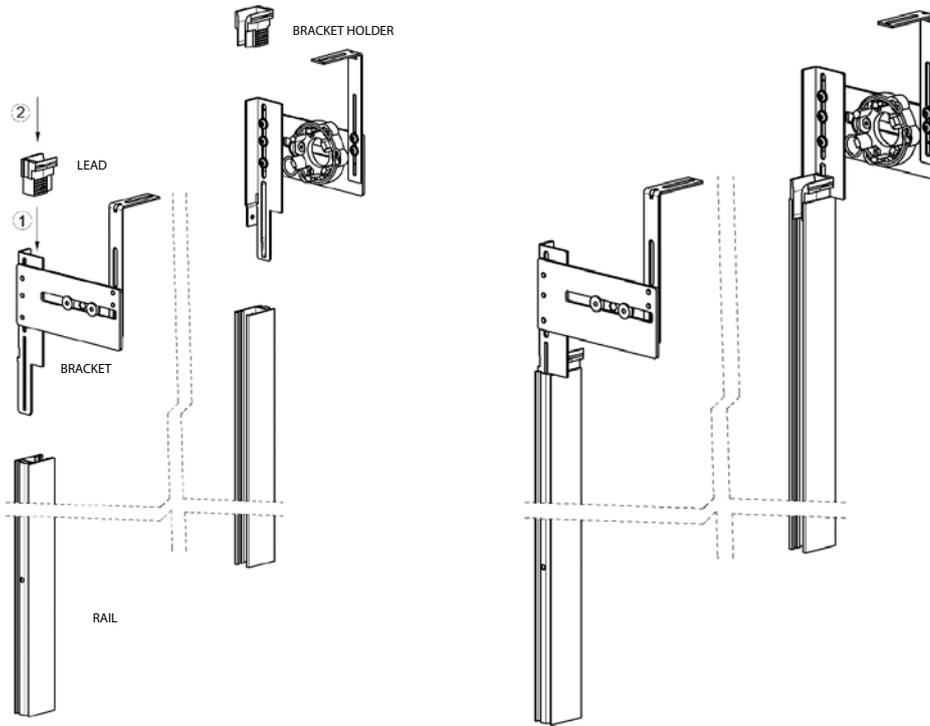
Installation may only be carried out by a qualified professional.

Construction readiness for installation: finished reveal incl. box, wiring box for connecting the motor.

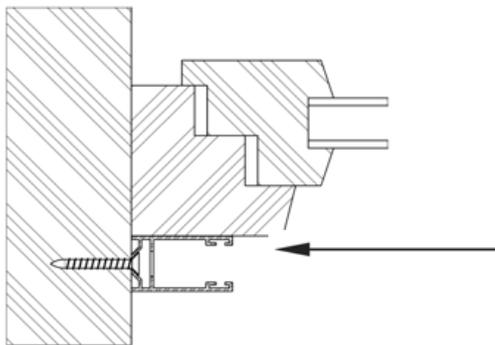
#### 3.1) Assembling the holder with the guide rail

3.1.1) Slide the holders in the guide rails. Drive the holders all the way to the guide rail.

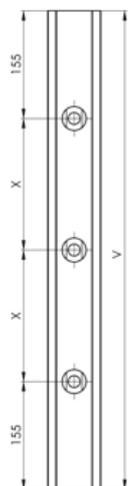
3.1.2) Drive the curtain leads to the holders.



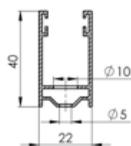
#### 3.2) Anchoring the guide rails



Choose suitable fasteners according to the base material.  
It is only possible to anchor the rail to the reveal.

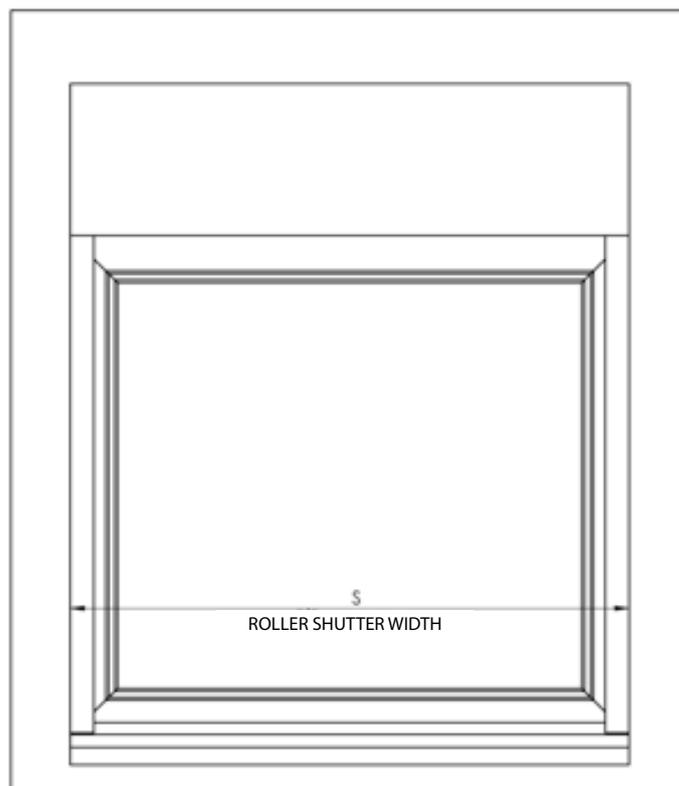


$V < 1500$	2 OPENINGS
$1501 < V < 2500$	3 OPENINGS
$2501 < V$	5 OPENINGS

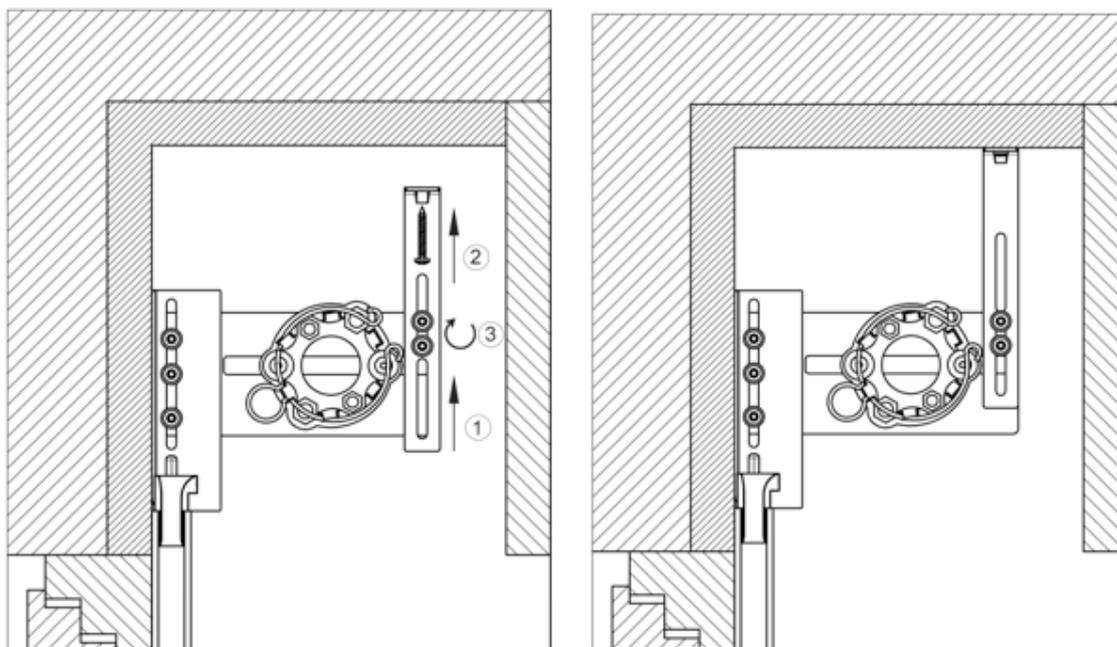


Sketch of hole drilling in guide rail.

3.3) Check if the width across the guide rails corresponds to the width as specified.



3.4) Secure the brackets

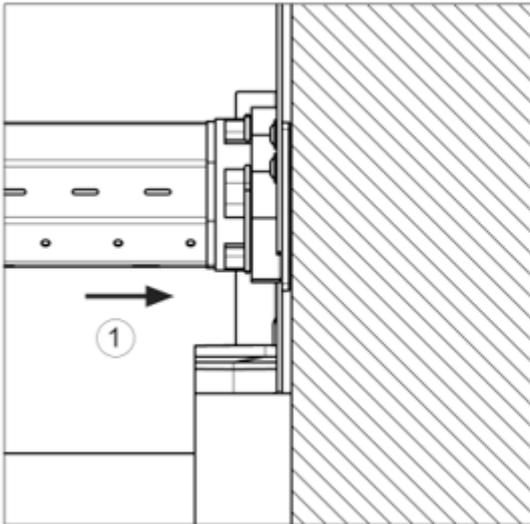


3.4.1) Slide the bracket holder up.

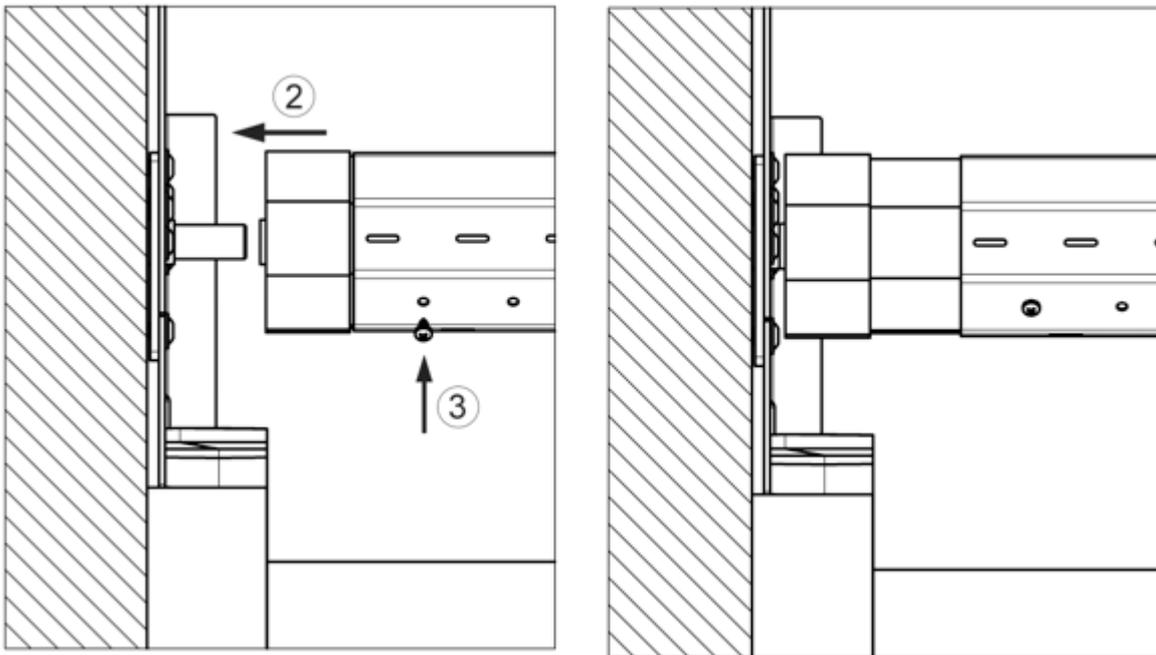
3.4.2) Secure the holder by a suitable screw.

3.4.3) Secure the holder with the bracket by bolts.

## 3.5) Fit the tube for the curtain



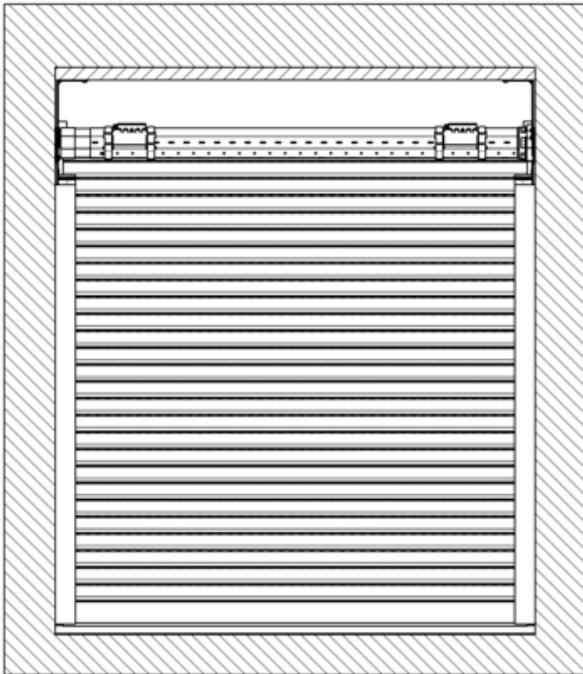
## 3.5.1) Slide the motor to the carrier, lead the motor cable to the wiring box.



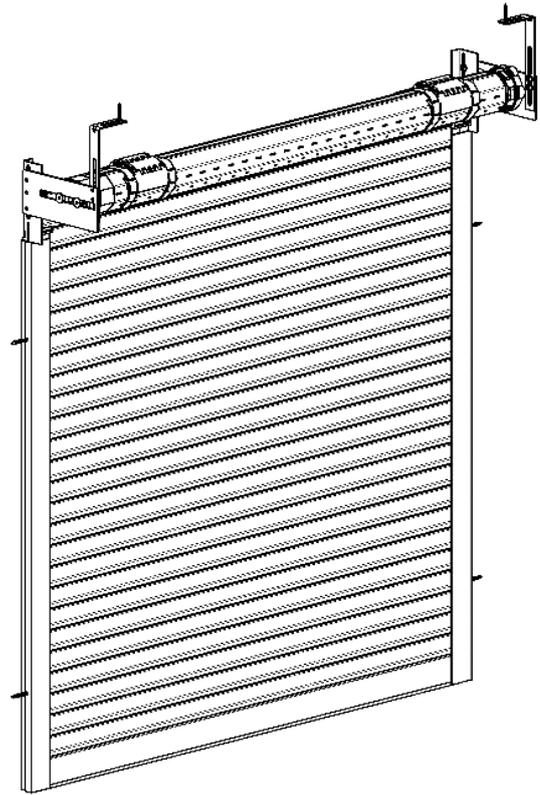
## 3.5.2) Protrude the cylindrical plug with the bearing to the pin.

## 3.5.3) Secure the cylindrical plug against moving.

3.6) Fitting the curtain

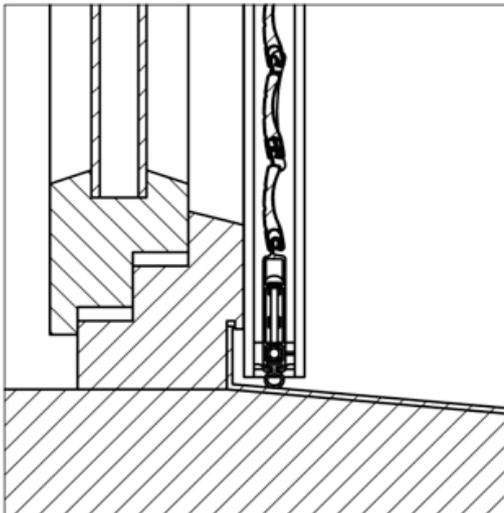


3.7) Lead the curtain in the guide rails and secure the curtain holders on the drum



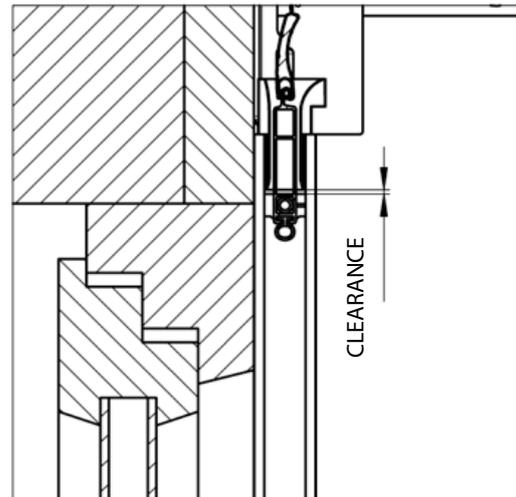
3.8) Adjustment and checking

3.8.1) Adjusting the lower stop piece



3.8.2) Adjusting the upper stop piece

When adjusting, it is necessary to maintain the 5 mm clearance between the curtain lead and the stop piece in the lower rail.



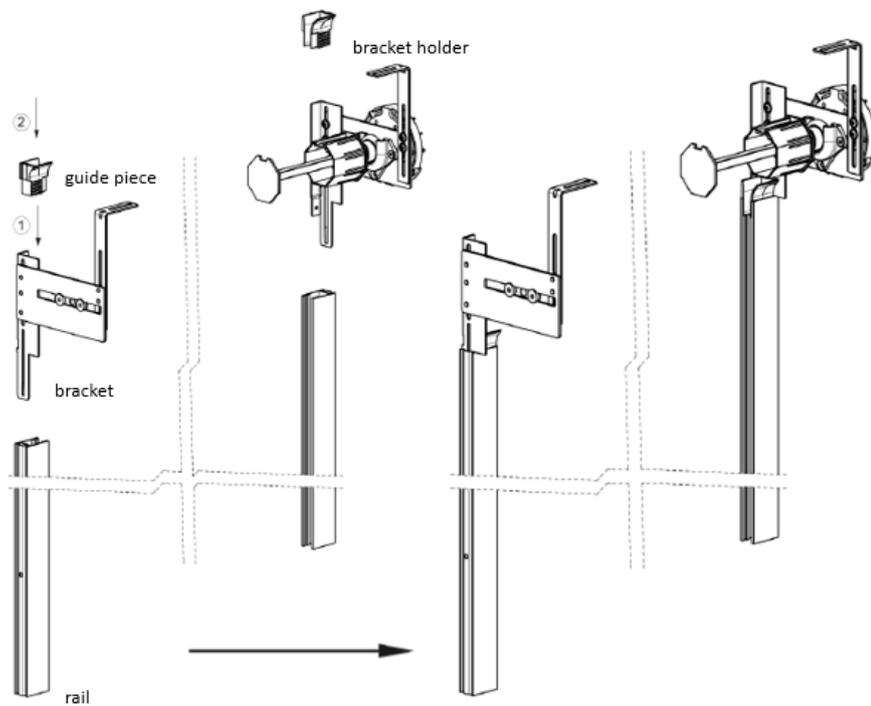
#### 4. INSTALLATION – HANDLE

Installation may only be carried out by a qualified professional.

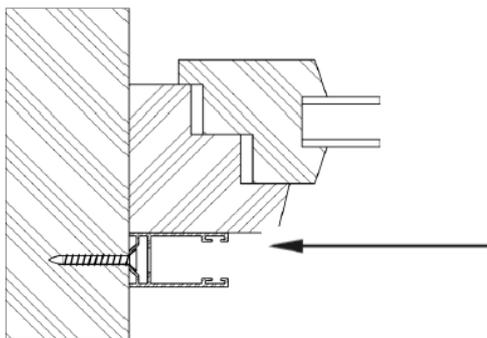
##### 4.1) Assembling the holder with the guide rail

4.1.1) Insert the holders in the guide rails. Push the brackets down to the guide rail.

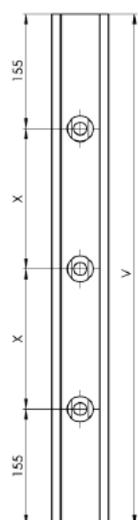
4.1.2) Insert the curtain guide pieces in the installed holders.



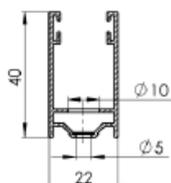
##### 4.2) Guide rail anchoring



Select suitable fasteners according to the type of substrate.  
Anchoring is only possible to the side – to the reveal.

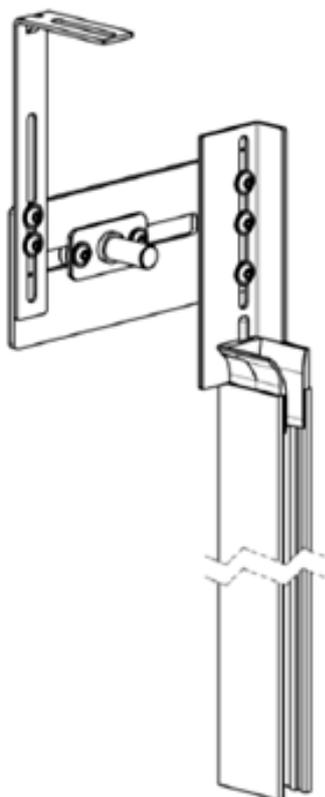


$V < 1500$	2 HOLES
$1501 < V < 2500$	3 HOLES
$2501 < V$	4 HOLES

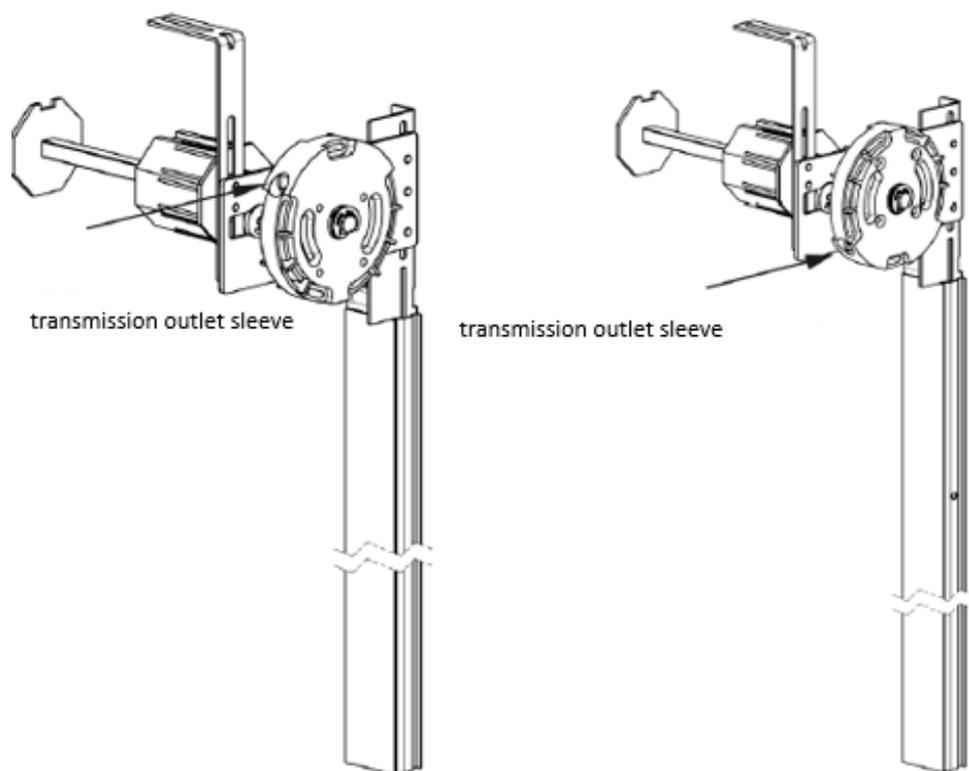


Guide rail hole drilling sketch

4.3) First, anchor the guide rail with the roller support (non-control side)



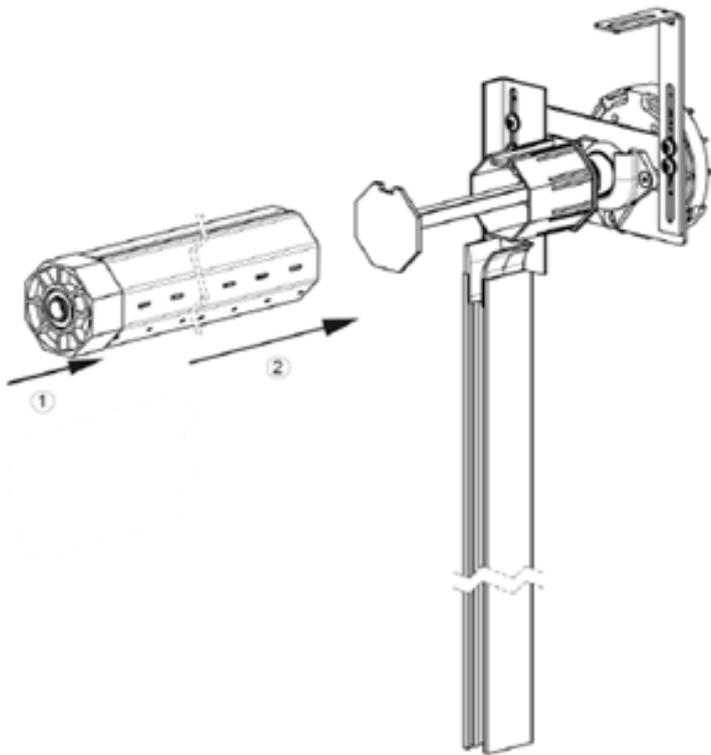
4.3.1) Prior to anchoring the guide rail of the controls, it is possible to turn over the transmission so that the outlet is at the top.



**CAUTION!**

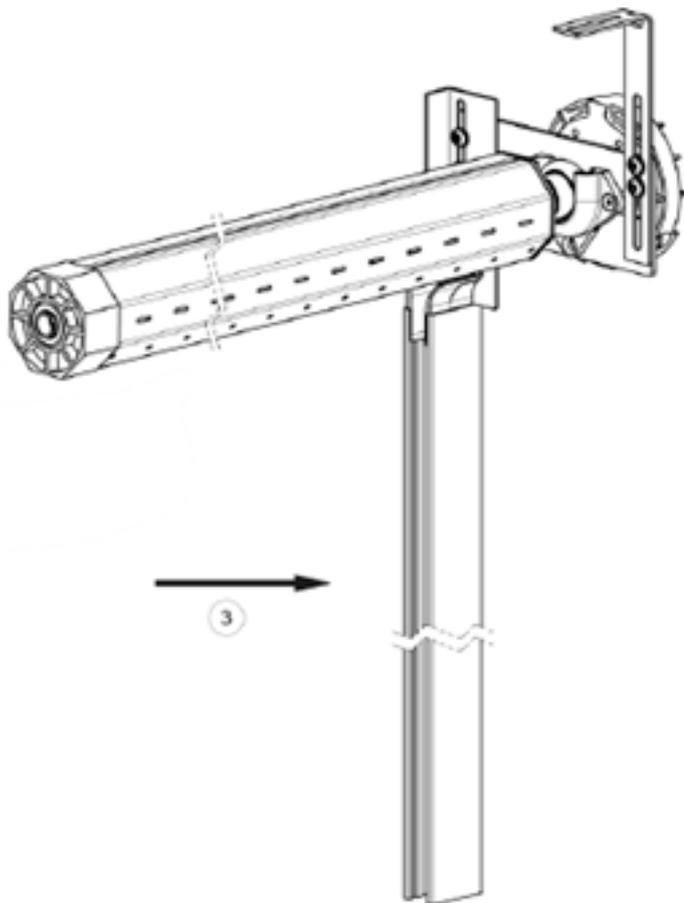
When tampering with the transmission, it is necessary to check its functionality. The transmission contains a stop plate in one direction. If the transmission is turned over, the sense of rotation of the handle reverses.

4.4) Fit the shaft onto the completed guide rail with control



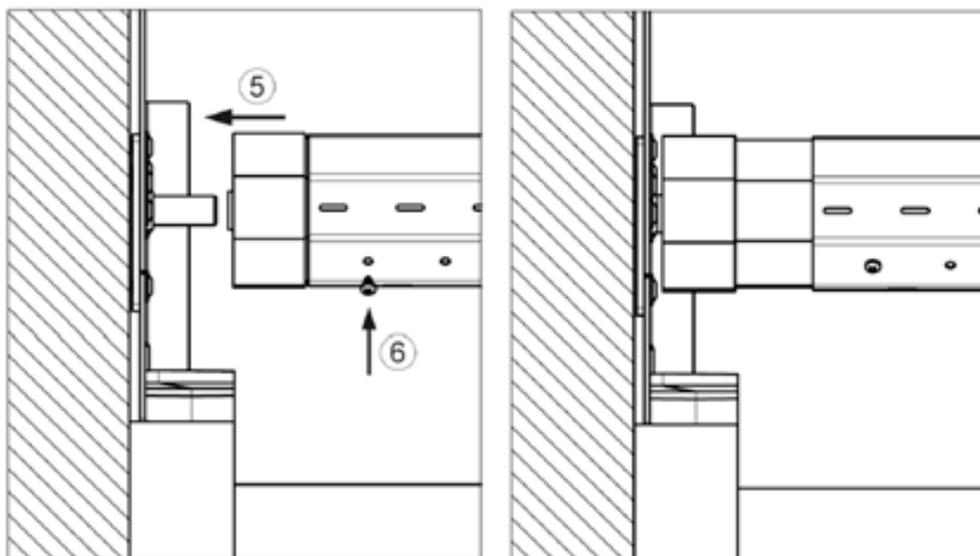
4.4.1) Insert the roller end with the bearing into the shaft.

4.4.2) Fit the shaft onto the carrier.



4.4.3) Fit the assembly to the side opposite the rail with the roller support.

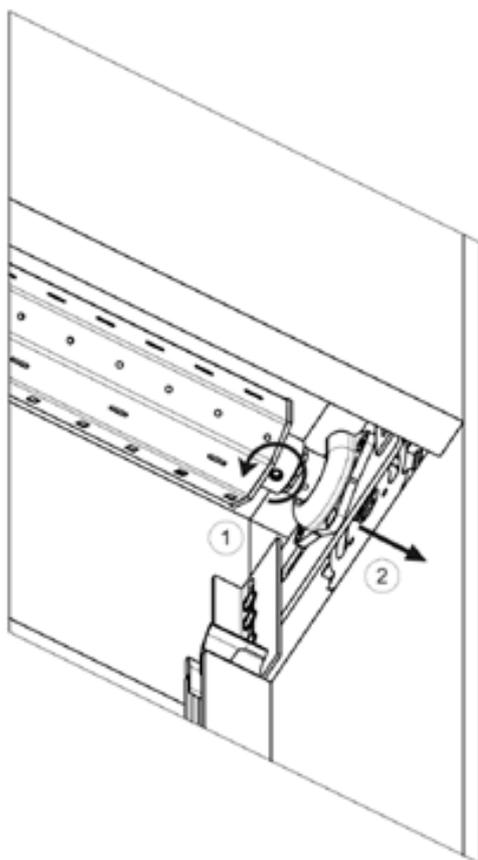
4.4.4) Align, set up, and anchor the guide rail.



4.4.5) Extend the cylindrical plug with the shaft to the pin.

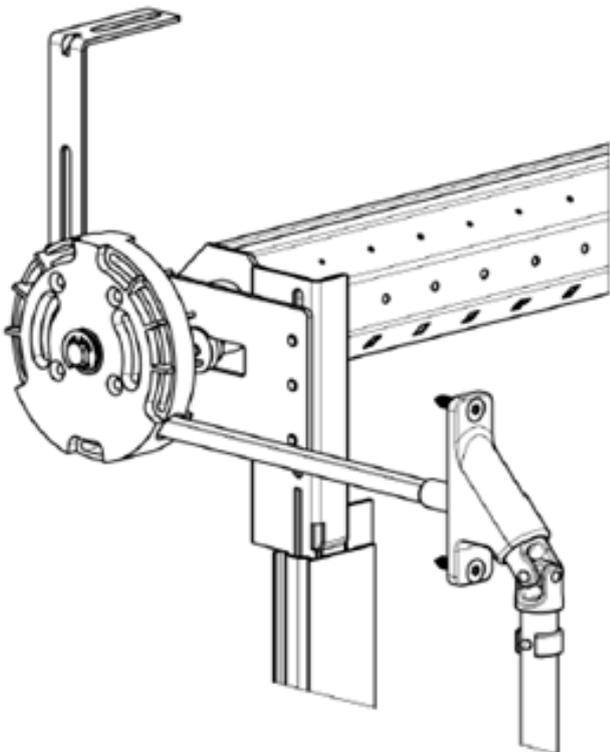
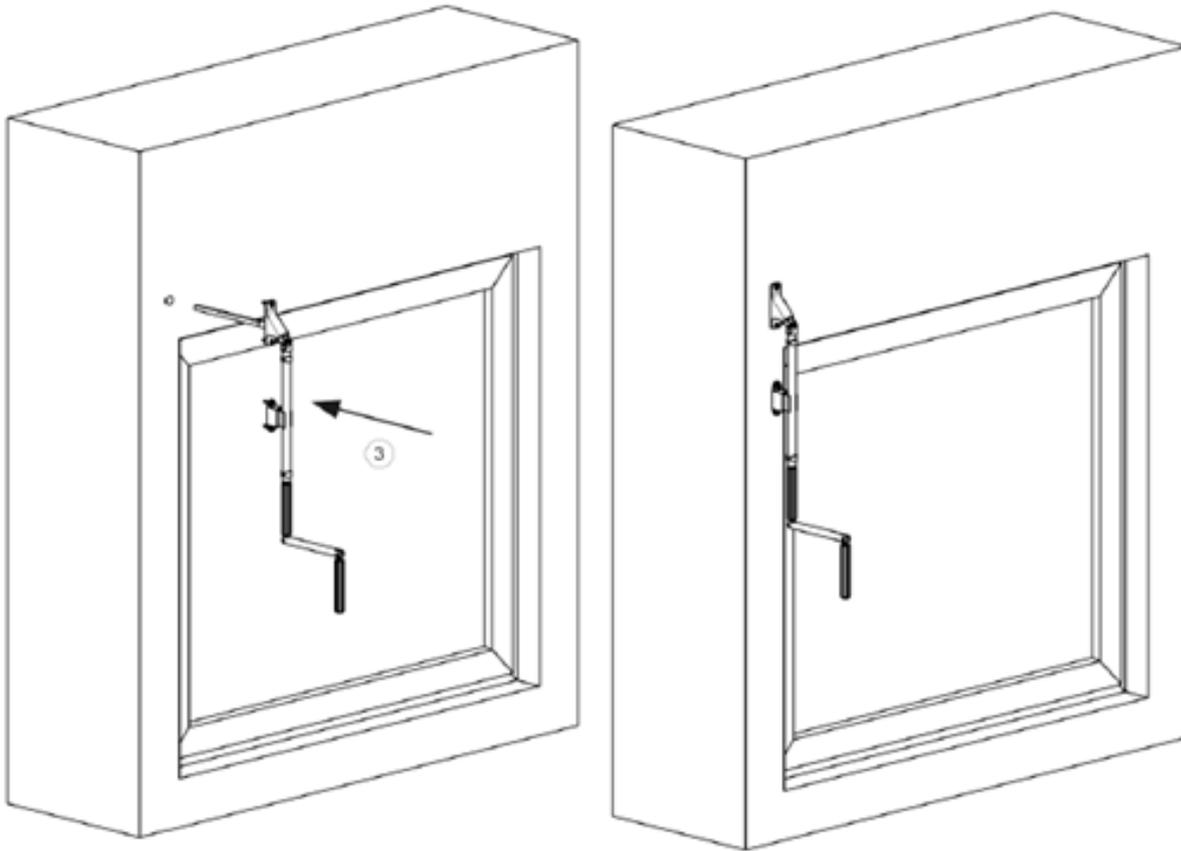
4.4.6) Secure the cylindrical plug against movement.

4.5) Connecting the transmission and the handle



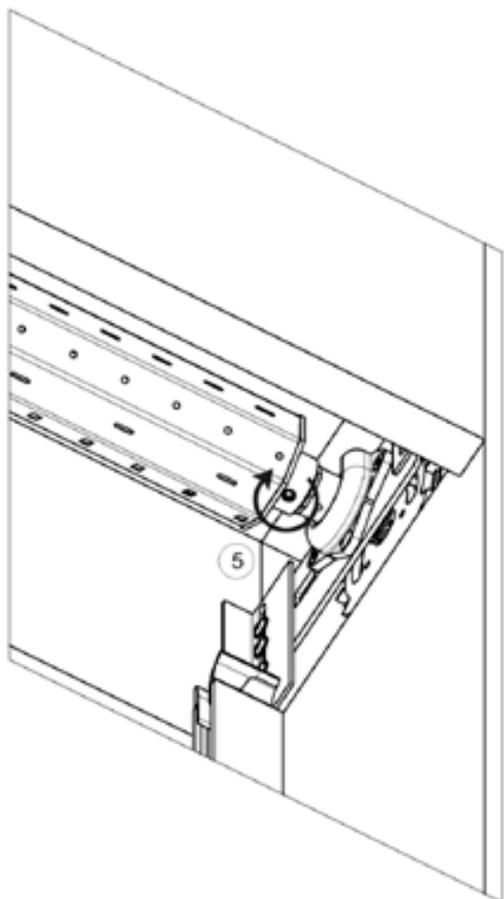
4.5.1) Loosen the screw that locks the telescopic pin.

4.5.2) Move the transmission to the position opposite the fitted handle.

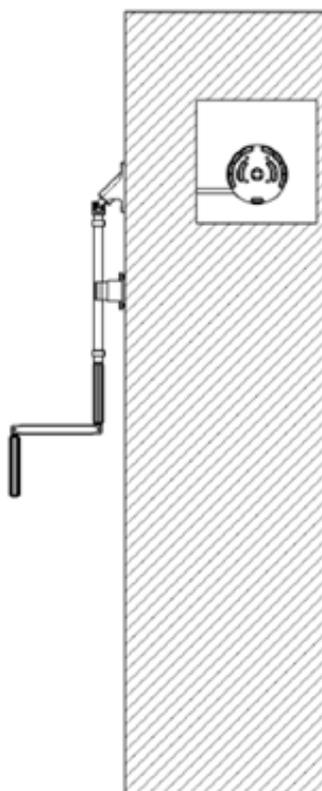
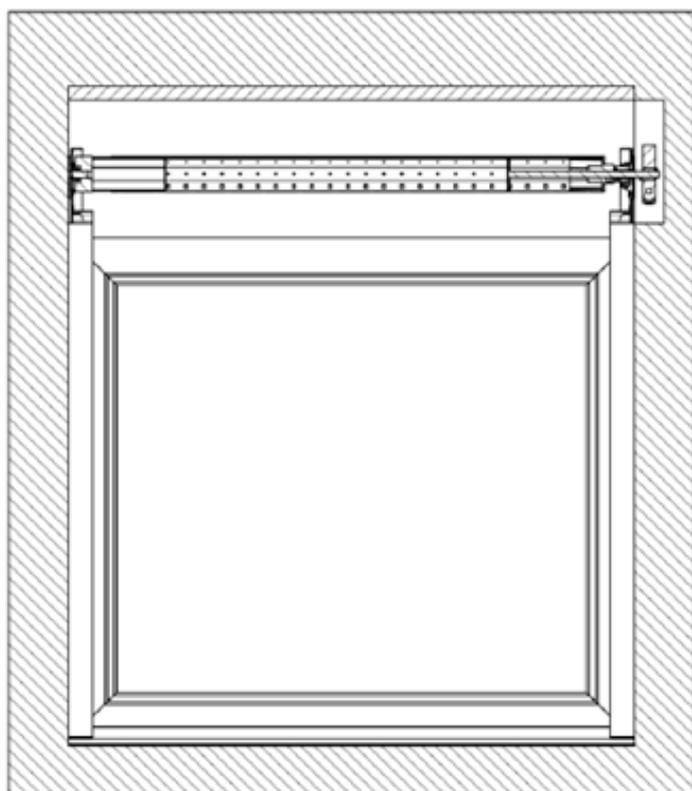


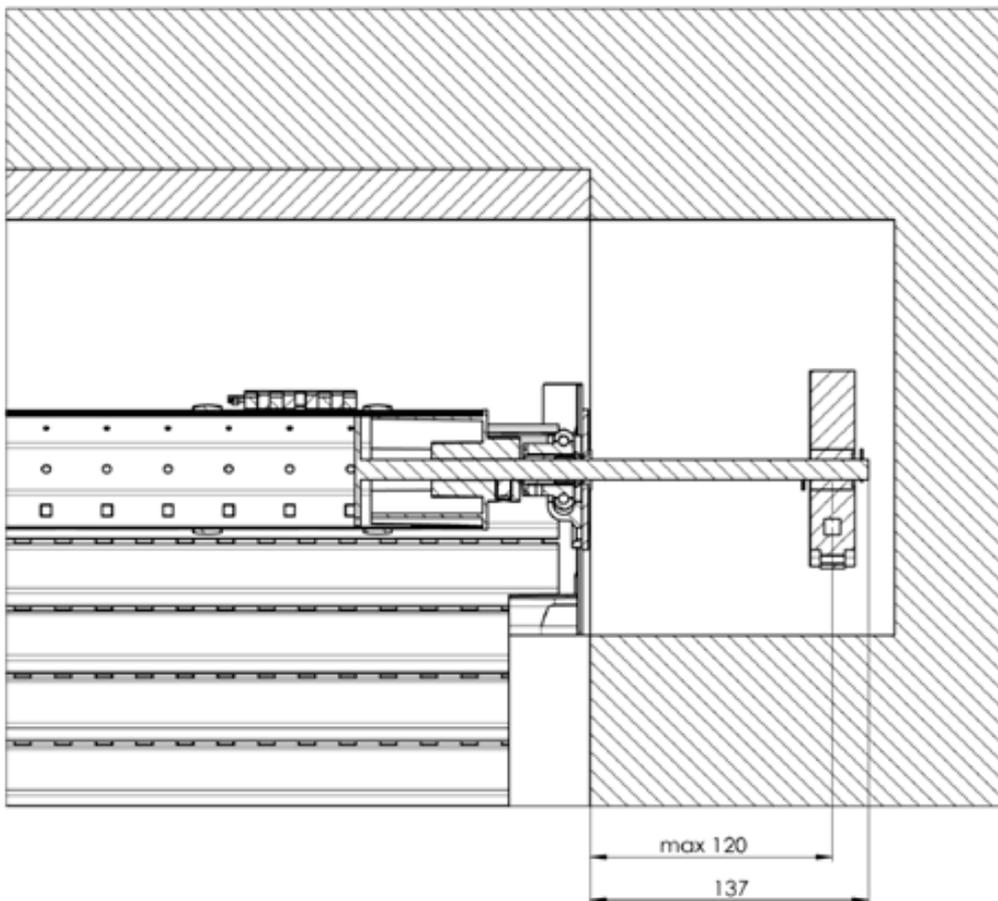
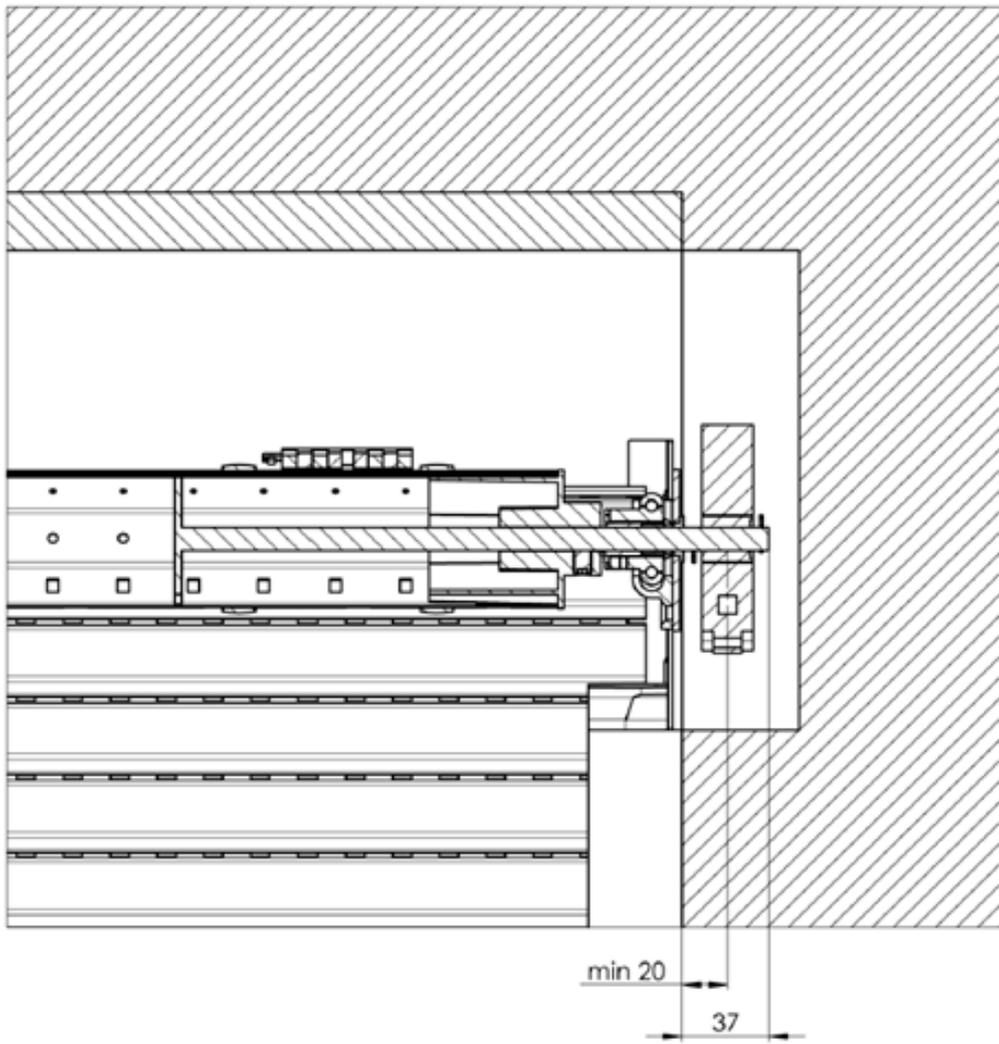
4.5.3) Insert the pin from the sleeve from the handle to the transmission.

4.5.4) Anchor the sleeve using suitable fasteners.

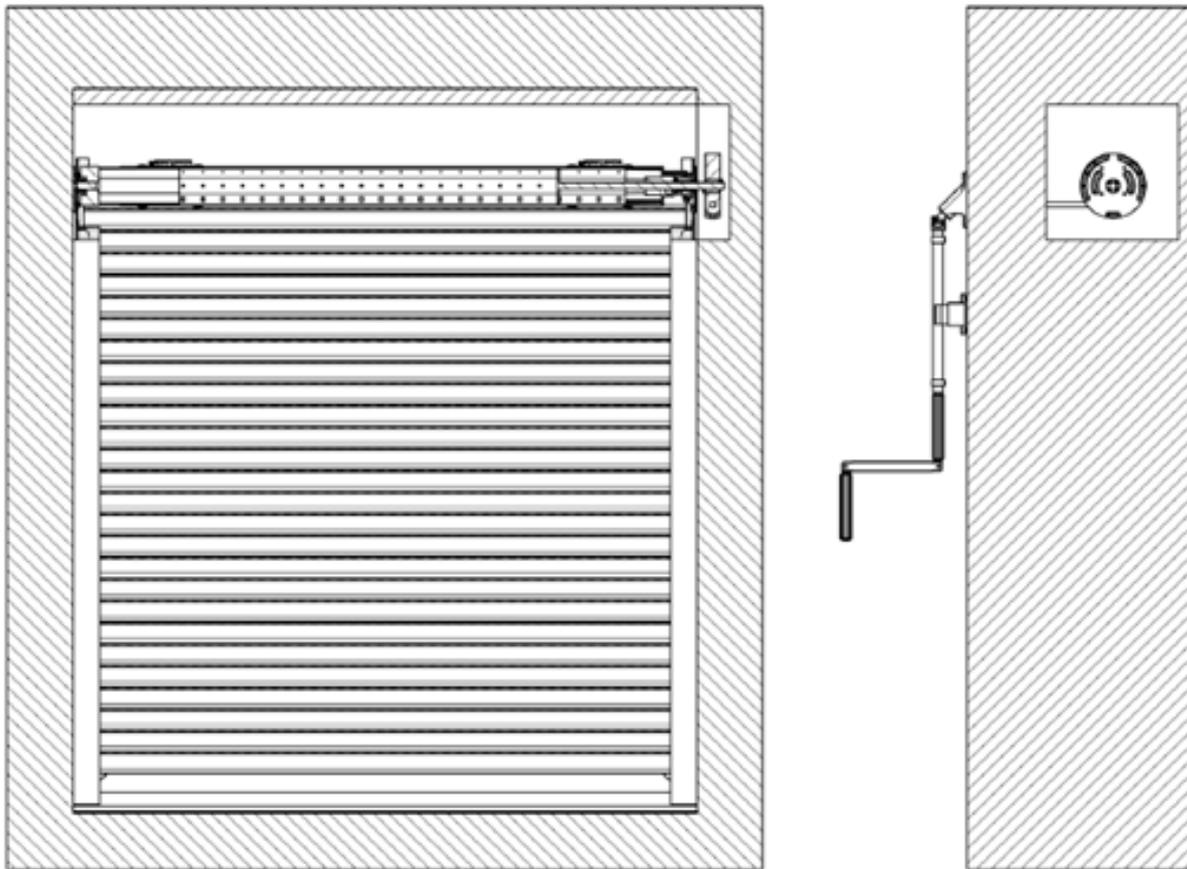


4.5.5) Tighten the screw that locks the telescopic pin.

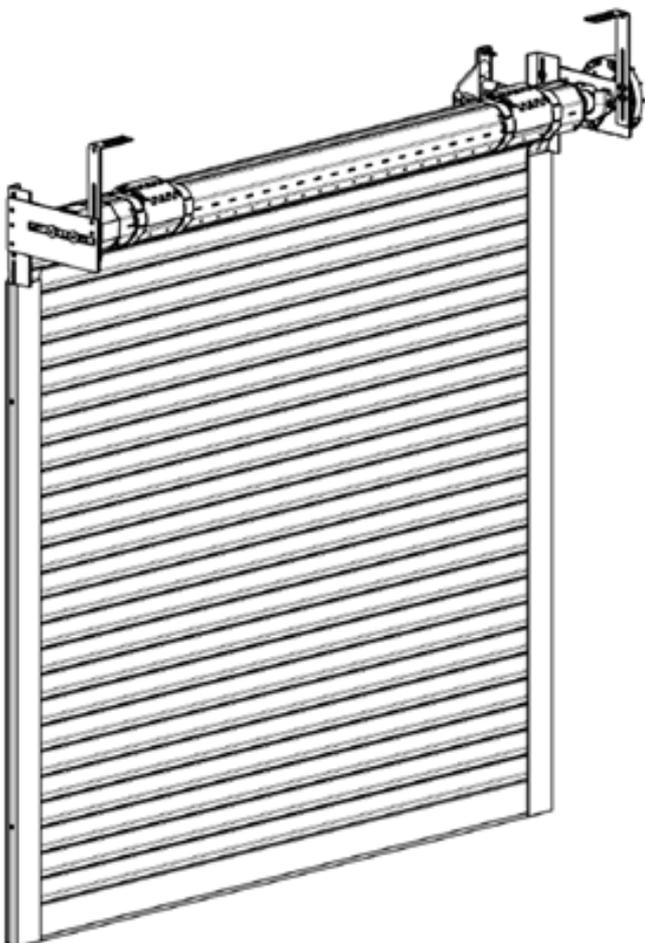




4.6) Inserting the curtain



4.6.1) Guide the curtain in the guide rails and secure the curtain braces on the roller.



## Motors

### GEIGER MOTORS, 60 mm SHAFT – for MY442, M328 and M317 slats

item name	trade name	drawing number
Geiger TOUCH, 6 Nm (incl. adapter and carrier)	PR0629/06	6-012799-0006
Geiger TOUCH, 10 Nm (incl. adapter and carrier)	PR0629/10	6-012799-0010
Geiger TOUCH, 20 Nm (incl. adapter and carrier)	PR0629/20	6-012799-0020
Geiger EASY, 10 Nm (incl. adapter and carrier)	PR0630/10	6-012800-0010
Geiger EASY, 20 Nm (incl. adapter and carrier)	PR0630/20	6-012800-0020
Geiger AIR, 10 Nm	PR0787/10	6-015625-0010
Geiger AIR, 20 Nm	PR0787/20	6-015625-0020

### BECKER MOTORS, 60 mm SHAFT – for MY442, M328 and M317 slats

item name	trade name	drawing number
Becker R8-17-C01 PLUS, radio-controlled	X.2010/1201580	6-017951-0008
Becker R12-17-C01 PLUS, radio-controlled	X.2010/1201590	6-017951-0012
Becker R20-17-C01 PLUS, radio-controlled	X.2020/1201280	6-017951-0020
Becker R30-17-C01 PLUS, radio-controlled	X.2030/1201580	6-017951-0030
Becker R40-17-C01 PLUS, radio-controlled	X.2040/1201170	6-017951-0040
Becker R4-17-M17, 4 Nm	X.2010/1100430	6-017871-0004
Becker R08/17 E03, mechanical	PR0900/08	6-017148-0008
Becker R12/17 E03, mechanical	PR0900/12	6-017148-0012
Becker R20/17 E03, mechanical	PR0900/20	6-017148-0020

### ISOTRA BASIC MOTORS, 60mm SHAFT

item name	trade name	drawing number
ISOTRA BASIC MOTOR, 6Nm/17	X.AM45 6/17R	6-019175-0006
ISOTRA BASIC MOTOR, 6Nm/17	X.AM45 10/17R	6-019175-0010

### S&S RS100 MOTORS

item name	trade name	drawing number
S&SO RS100 io 6/17	PR0880/06	6-014804-0006
S&SO RS100 io 10/17	PR0880/10	6-014804-0010
S&SO RS100 io 15/17	PR0880/15	6-014804-0015
S&SO RS100 io 20/17	PR0880/20	6-014804-0020
S&SO RS100 ioHybrid 6/17	MR 135/06	6-015565-0617
S&SO RS100 ioHybrid 10/17	MR 135/10	6-015565-1017
S&SO RS100 ioHybrid 15/17	MR 135/15	6-015565-1517
S&SO RS100 ioHybrid 20/17	MR 135/20	6-015565-2017

### BECKER MOTORS, 40 mm SHAFT – for M328 and M317 slats

item name	trade name	drawing number
Becker P5-16-C01, pushbutton input (40 mm), radio-controlled	X.2009/1201200	6-017832-0005
Becker P9-16-C01, pushbutton input (40 mm), radio-controlled	X.2009/1201220	6-017832-0009
Becker P5-16-E01 (40mm)	X.2009/1201100	6-019589-0005
Becker P 9/16 PR+, (40 mm)	PR0903/09	6-017151-0009
Becker SOLAR KIT SK460, 6 Nm (40 mm)	X.B/SK46006	6-017873-0006
Becker SOLAR KIT SK460, 10 Nm (40 mm)	X.B/SK46010	6-017873-0010

### SOMFY MOTORS, SHAFT 40 mm – for M328 and M317 slats

item name	trade name	drawing number
Ilmo 2 40 WT 4/16	PR0406/4	6-017830-0004
Ilmo 2 40 WT 9/16	PR0406/9	6-017830-0009
Ilmo 2 40 WT 13/10	PR0406/13	6-017830-0013
40 iO 4/16	PR0652/4	6-014871-0004
40 iO 9/16	PR0652/9	6-014871-0009
40 iO 13/16	PR0652/13	6-014871-0013

### SOLAR SET, 40 mm SHAFT – for M328 and M317 slats

item name	trade name	drawing number
Oximo 40 WireFree RTS 3/23, with integrated receiver*	PR0415	6-008256-WF03
Oximo 40 WireFree RTS 6/18, with integrated receiver*	PR0416	6-008256-WF06
SOLAR KIT "Oximo 40" 6/18 io*	PR0416io	6-008256-WF06io
SOLAR KIT "Oximo 40" 10/12 io*	PR0417io	6-008256-WF10io

\* The Oximo 40 WireFree RTS und IO set contains a drive with integrated remote control receiver and an external solar panel.

**LT 50 NHK MOTORS**

<b>item name</b>	<b>trade name</b>	<b>drawing number</b>
LT 50 NHK - Jet 8/17	PR0400	6-002631-0008
LT 50 NHK - Meteor 20/17	PR0401	6-002631-0020
LT 50 NHK - Jet RTS 10/17	MR 090/10	6-002632-0010
LT 50 NHK - Meteor RTS 20/17	MR 090/20	6-002632-0020

**SOMFY MOTORS, 60 mm SHAFT – for MY442, M328 and M317 slats**

<b>item name</b>	<b>trade name</b>	<b>drawing number</b>
Motor Ilmo 2 50 WT 15/17	PR411/1	6-013925-0015
Motor Ilmo 2 50 WT 10/17	PR410/1	6-013925-0010
Motor Ilmo 3 50 WT 6/17	-	6-020173-0006
Oximo WT 6/17	PR0333	6-001532-0006
Oximo WT 10/17	PR0334	6-001532-0010
Oximo WT 15/17	PR0335	6-001532-0015
Oximo WT 40/17	PR0338	6-001532-0040
Oximo RTS 6 Nm for 60 mm shaft, with integrated receiver	PR0339	6-002615-0006
Oximo RTS 10 Nm for 60 mm shaft, with integrated receiver	PR0340	6-002615-0010
Oximo RTS 15 Nm for 60 mm shaft, with integrated receiver	PR0341	6-002615-0015
Oximo RTS 20 Nm for 60 mm shaft, with integrated receiver	PR0342	6-002615-0020
Oximo RTS 30 Nm for 60 mm shaft, with integrated receiver	PR0343	6-002615-0030
Oximo RTS 40 Nm for 60 mm shaft, with integrated receiver	PR0344	6-002615-0040
Oximo S auto RTS 6/17, with external remote control receiver	PR0414	6-008040-0000
Oximo 50 io 6/17, with integrated receiver	PR0636	6-012566-0617
Oximo 50 io 10/17, with integrated receiver	PR0637	6-012566-1017
Oximo 50 io 15/17, with integrated receiver	PR0638	6-012566-1517
Oximo 50 io 20/17, with integrated receiver	PR0639	6-012566-2017
Oximo 50 io 30/17, with integrated receiver	PR0640	6-012566-3017
Oximo 50 io 40/17, with integrated receiver	PR0641	6-012566-4017
Oximo S Auto io 6/17, with external remote control receiver	PR0642	6-013056-0000
RS100 SOLAR IO 10/12	PR0906/10	6-018869-0010
RS100 SOLAR IO 6/15	PR0906/06	6-018869-0006

## Operating and Maintenance Instructions

Read this manual carefully, especially the safety precautions. Damages resulting from failure to comply with the conditions stated in these Operating and Maintenance Instructions **shall not be covered by the warranty**. Enforce implementation of recommendations stated herein, **hand this manual over upon sale of the product**, as it contains information regarding maintenance and commissioning of the product.

The shutter **has been made and installed by a professionally trained and competent company** in the area of sun protection. **Repairs and disassembly** may only be performed by **trained experts**. **Do not attempt to perform any changes to the product, otherwise proper use of the product cannot be ensured.**

Images shown herein apply to various versions of the shutters.

## PRODUCT FEATURES

### Simultaneous shutter movement

It is not possible to achieve perfect synchronous operation of several shutter due to different friction of the individual shutters and different speeds of their drives. This also applies to intermediate positions.

### Translucence

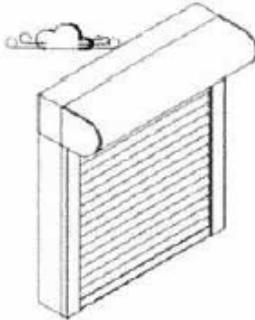
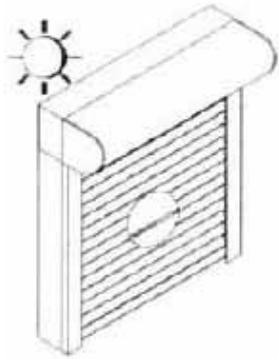
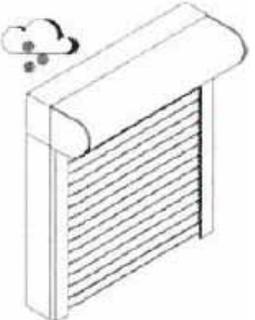
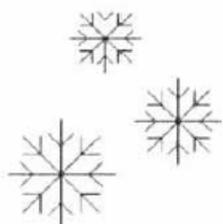
Due to their design, shutters cannot serve as blackout units. Penetration of diffuse light is allowed in the area of slat connections, lateral guides, and the upper and lower ends.

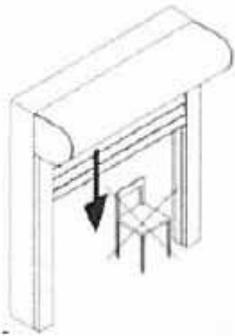
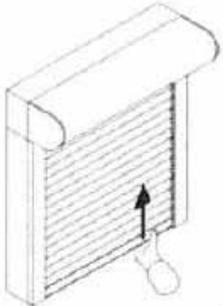
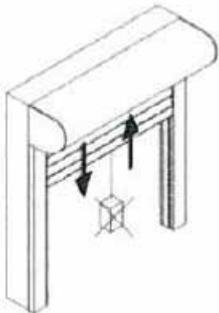
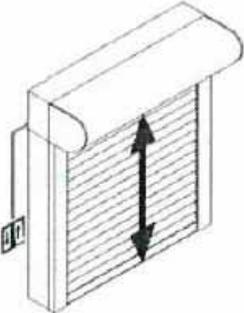
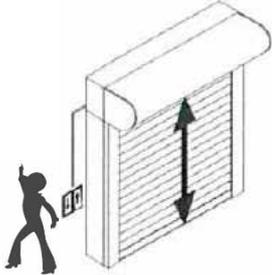
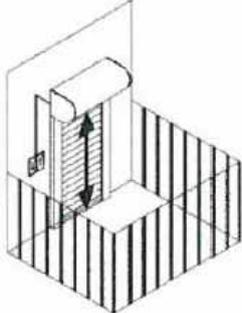
### Noise emission

Structural parts of the shutters may be a source of noise due to their properties or movement (operation, wind, thermal expansion). If the shutter has been exposed to strong sunlight for longer period of time, "clicking" noise caused by the surface treatment or plastics may be heard when the shutter is activated. Both aluminium and plastic shutters expand due to heat. Such expansion, or shrinking, due to temperature changes may also be associated with various sounds.

### Surface quality

When assessing the shutter's surface quality, it is necessary to observe the viewing distance specified in the respective standard. Said distance is 3 metres for exterior structural parts, and 2 metres for interior structural parts. It is only possible to complain about surface defects that visible to the naked eye the distances specified above and under normal conditions.

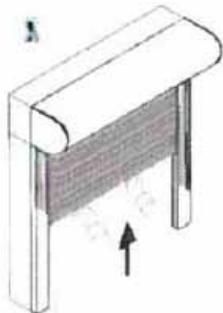
Operation in strong winds		Operating the shutter at high temperatures	
<p>Close the windows in strong wind conditions. Prevent draught, especially if you are not present.</p> <p><b>NOTE</b> The shutters are designed to withstand the expected wind intensity without permanent damage. Both the window and the shutters must be completely closed in strong wind conditions, otherwise there is a risk of permanent damage to the shutters.</p>		<p>Sufficient ventilation of the curtain must be ensured if the shutter is used as sun protection. In this case, lighting openings of the shutter must be left open to prevent overheating, otherwise there is a risk of permanent damage, especially in case of plastic slats.</p>	
Operating the shutter at low temperatures		Operating the shutter in the winter	
<p>During cold seasons of the year and depending on current weather conditions, the curtain may freeze onto the lower end rail and/or lateral guide rails due to penetration of water during thawing or rain/snow at low temperatures.</p> <p><b>NOTE</b> In such cases, do not attempt to move the shutter by force. This may lead to faulty function or permanent damage of the shutter.</p>		<p>If there is a risk of freezing onto surfaces, deactivate automatic controls of the shutter.</p> <p><b>EXCEPTION:</b> There is no need to deactivate shutter drives equipped with overload sensors. If there is a risk of damage, they will deactivate automatically.</p>	

<b>Shutter movement</b> It is necessary to ensure the shutter area is free of any objects and other obstacles that would prevent free downward and upward movement of the shutter.		<b>Incorrect control</b> Do not control the shutter in a manner other than specified in this technical manual.  <b>NOTE:</b> Never attempt operating the shutter manually by force. This is likely to cause permanent damage to the shutter.	
			
<b>Unsuitable use of the shutter</b> Never use the shutter for a purpose other than for which it has been designed.  <b>NOTE:</b> Do not hang any objects to the curtain. This is likely to cause irreversible damage to the shutter.		<b>Duration of the motor run</b> The motors used are not intended for long, uninterrupted operation. The integrated thermal protection will deactivate the motor after approx. 4 minutes.  The motor will return to the stand-by mode in 10–15 minutes.	
			
<b>Accessibility of the control elements</b> Prevent easy access by children to the shutter control elements. This precaution will prevent possible damage to the control elements as well as the whole shutter.		<b>Automatic operation of French door shutters</b> When staying at a balcony or terrace, deactivate automatic shutter controls. This will prevent being “trapped” at the balcony (terrace).	
			

## Electric motor control

Control using a push-button switch without the OFF position	Control using a push-button switch with the OFF position
<p>After pressing and holding the respective button (UP/DOWN) or rotating the switch (LEFT/RIGHT), the shutter will move in the required direction.</p> <p>The shutter movement will stop after releasing the button/switch.</p>	<p>After pressing and holding the respective button (UP/DOWN) or rotating the switch (LEFT/RIGHT), the shutter will move in the required direction.</p> <p>After pressing the button or rotating the switch in the OFF position (depending on the button/switch version), the shutter movement will stop.</p>

## Operating the integrated insect screen

Operating the insect screen	
<p>When releasing the insect screen in the upward direction, hold the screen by both hands. This will prevent damage by fast movement of the screen or by hitting the stops.</p>	

## Care and maintenance

Care	Maintenance
<p>Lifetime of the product can only be guaranteed by proper use, care and maintenance. Regular cleaning should <b>only</b> be performed by suitable means. Gently remove dirt and obstacles from the guide rails.</p> <p><b>RECOMMENDATION:</b> Disconnect the unit from the mains when cleaning.</p>	<p>We recommend performing regular visual checks of the control elements (wear, damage, etc.) and check of rigidity of the whole unit.</p> <p>Call a specialist to replace worn-out and damaged parts <b>by original spare parts</b> as soon as possible.</p>

More information is given in the separate **Operating and Maintenance Instructions**.

## Oximo 40 WireFree IO solar kit for Vivera and Vivera-Sectra blinds

The exterior roller shutter with external solar power is a unique and fully automated roller shutter that is wirelessly controlled and has zero electricity consumption. This roller shutter-works on the principle of the so-called photovoltaic phenomenon - i.e. the conversion of sunlight into electrical energy. This is the most ecological and energy-saving drive solution for roller shutters. The drive is powered by a long-life battery charged by a solar panel that works in all weather conditions.

### Product parameters:

- for 40 mm shaft
- for slats M328 and M317
- battery life from 8 to 10 years
- the solar panel is always on the motor side
- installation in the facade is not possible

### Set includes:

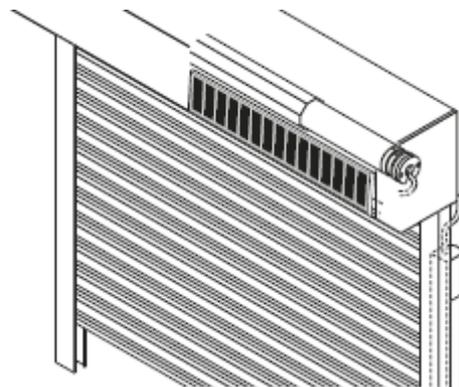
- Motor Oximo 40 WireFree 6/18 IO or 10/12 IO
- solar panel Oximo/Sunea WireFree resin 3.2 W
- battery WireFree NiMH, 12V, 2.2 Ah
- connecting cable

### Accessories for the set:

- solar panel holder for wall mounting, (6-016468-0000)
- battery charger for the solar panel (for recharging from the electrical network), (6-016470-0000)
- extension cable to solar panel 5 m, (6-016471-0000)

### Advantages for assembly companies:

- the fastest drive to install
- no wiring required
- it is not necessary to have access into the installation object
- mounting the battery on the exterior - in a box or a guide rail
- variable setting of end positions by remote control
- roller shutter protection against freezing
- working temperature range from -20 °C to +70 °C



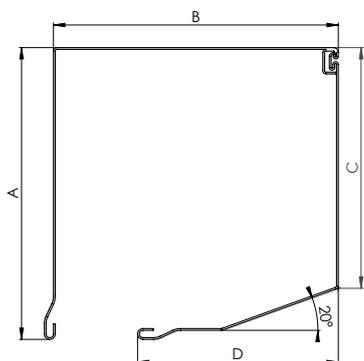
### Technical data for motors

Name	Oximo 40 WireFree 6/18 IO	Oximo 40 WireFree 10/12 IO
Nominal torque	6 Nm	10 Nm
Nominal speed	18 rpm	12 rpm
Nominal voltage	11.8 – 15 V	11.8 – 15 V
Nominal power	26 W	29 W
Nominal current	2.20 A	2.40 A
Max. continuous run time	w/o min.	w/o min.
Degree of protection	IP44	IP44
Protection level	III.	III.
Weight	0.8 kg	0.68 kg
Dimension (length)	460 mm	460 mm
Cable colour	white	white
Cable length	0.18 m	0.18 m

## Rolled Covering Boxes (Sectra, Vivera)

The dimensions given in the table correspond to the exact dimensions of the box. To place the box in a lintel, it is necessary to add 3 mm to dimension "A" and 6 mm to dimension "B".

Rolled box, 20° bevel



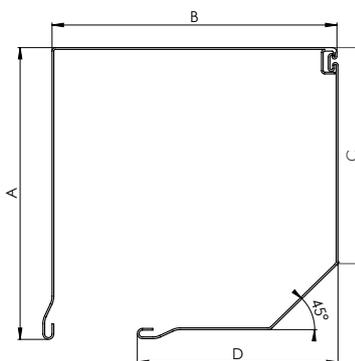
Vivera

Size	A	B	C	D
125	129	125	106	88
138	138	136	115	101
150	152	150	27	113
165	167	165	142	128
180	182	181	153	143
205	206	207	175	170

Sectra

Size	A	B	C	D
138	138	136	115	101
150	152	150	27	113
165	167	165	142	128
180	182	181	153	143

Rolled box, 45° bevel



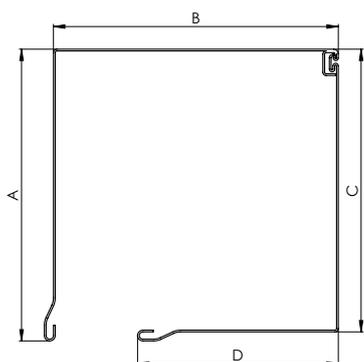
Vivera

Size	A	B	C	D
125	128	126	95	88
138	138	138	104	104
150	150	151	111	116
165	170	168	120	126
180	185	182	131	145
205	205	207	149	168

Sectra

Size	A	B	C	D
138	138	138	104	104
150	150	151	111	116
165	170	168	120	126
180	185	182	131	145

Rolled round box, straight design, 90°



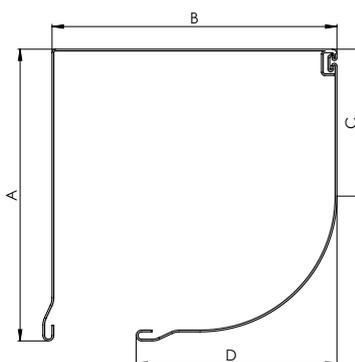
Vivera

Size	A	B	C	D
125	129	125	127	86
138	138	136	135	101
150	152	150	151	112
165	167	165	167	127
180	182	181	182	142
205	206	207	206	172

Sectra

Size	A	B	C	D
138	138	136	135	101
150	152	150	151	112
165	167	165	167	127
180	182	181	182	142

Rolled quarter-round box



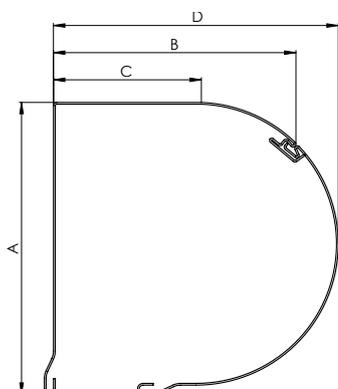
Vivera

Size	A	B	C	D
138	138	137	70	101
150	152	151	76	115
165	167	167	87	130
180	182	182	92	145
205	206	205	106	166

Sectra

Size	A	B	C	D
138	138	137	70	101
150	152	151	76	115
165	167	167	87	130
180	182	182	92	145

Rolled round box



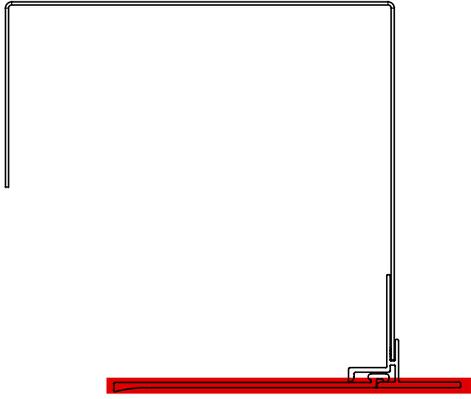
Vivera

Size	A	B	C	D
138	139	118	78	145
150	152	131	84	160
165	167	143	92	173
180	180	156	99	188
205	206	179	113	215

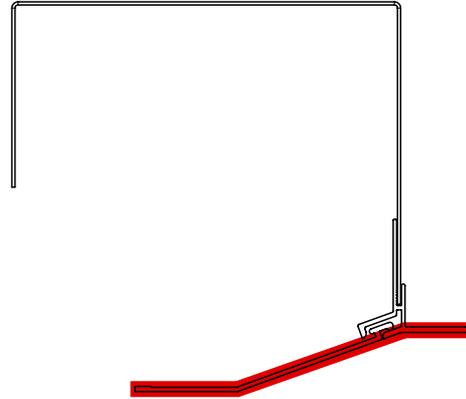
Sectra

Size	A	B	C	D
138	139	118	78	145
150	152	131	84	160
165	167	143	92	173
180	180	156	99	188

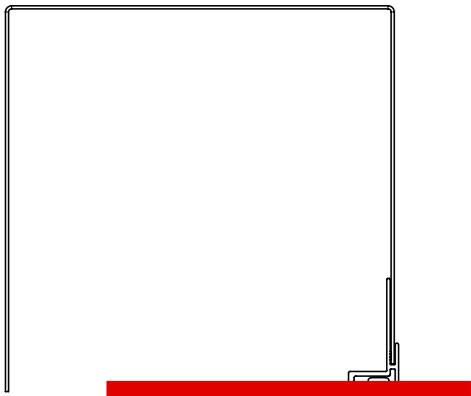
Abbreviation 2	Name
K020	For plastering, 20°
K020P	For plastering, 20°, (Plasterax extension)
K090	For plastering, 90°
K090P	For plastering, 90°, (Plasterax extension)



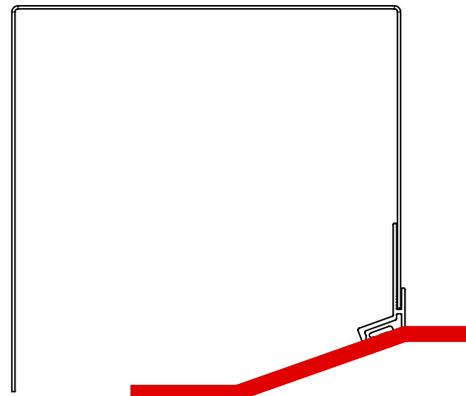
K090



K020



K090P

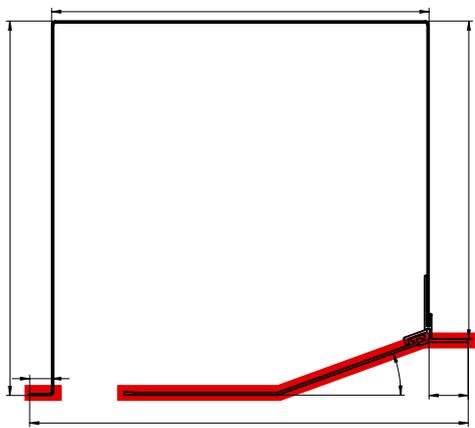


K020P

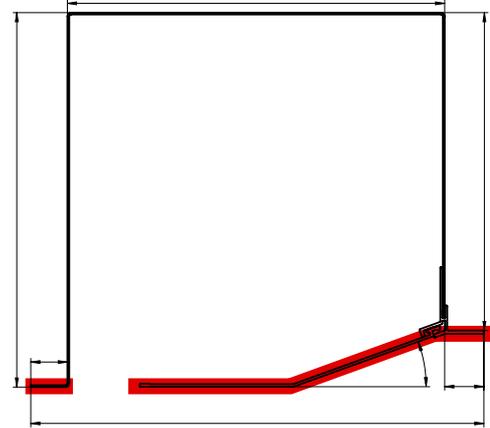
 painting

These values represent a situation where the back side of Plasterax will end alongside the check flap.

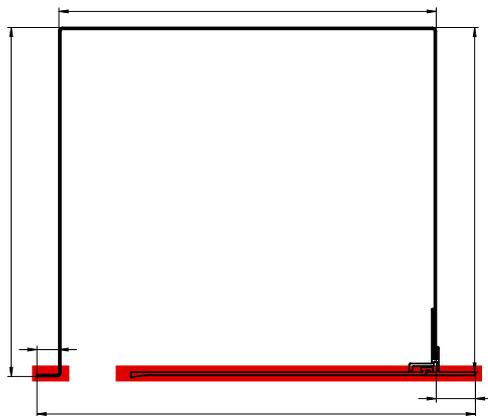
Abbreviation 2	Name
KO20PL12	For plastering, 20°, extension L12 (Plasterax)
KO20PL20	For plastering, 20°, extension L20 (Plasterax)
KO90PL12	For plastering, 90°, extension L12 (Plasterax)
KO90PL20	For plastering, 90°, extension L20 (Plasterax)



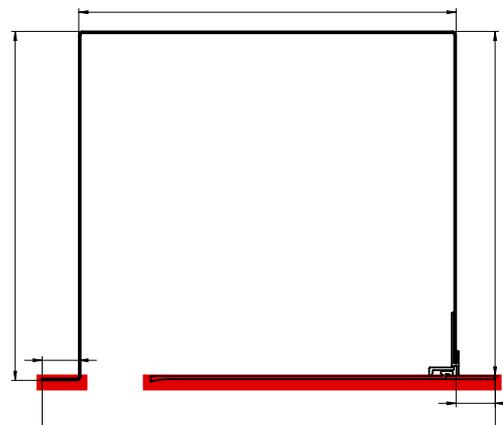
KO20PL12



KO20PL20



KO90PL12

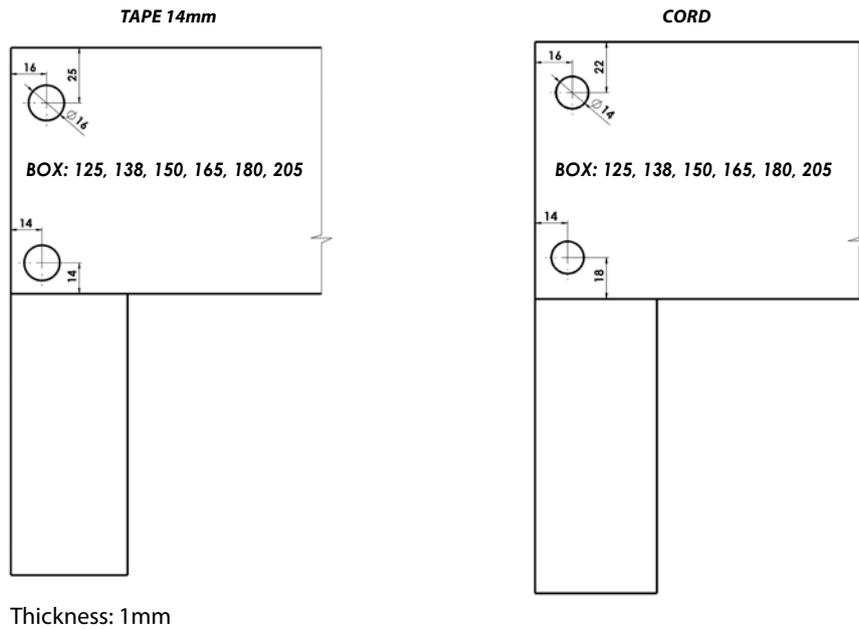


KO90PL20

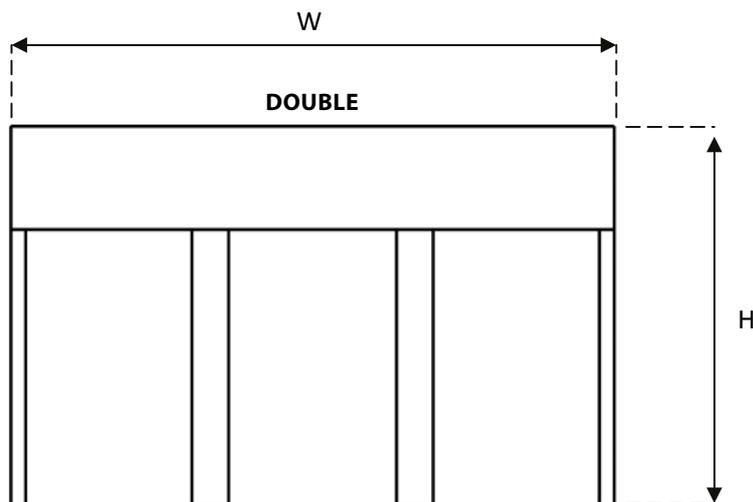
 painting

These values represent a situation where the back side of the Plasterax will end at the same time as the revision flap and in the back part there is a nose of size 12 mm or a nose of size 20 mm.

## Covering box



## Continuous box - double guiding channel



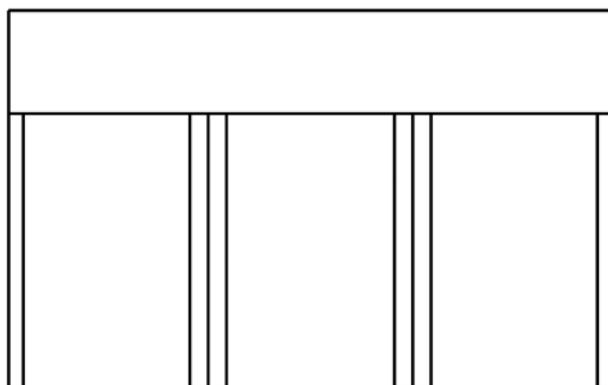
max. width\* = 4500 mm

max. height = 4350 mm

\*Max. width for Plasterax is 4000 mm.

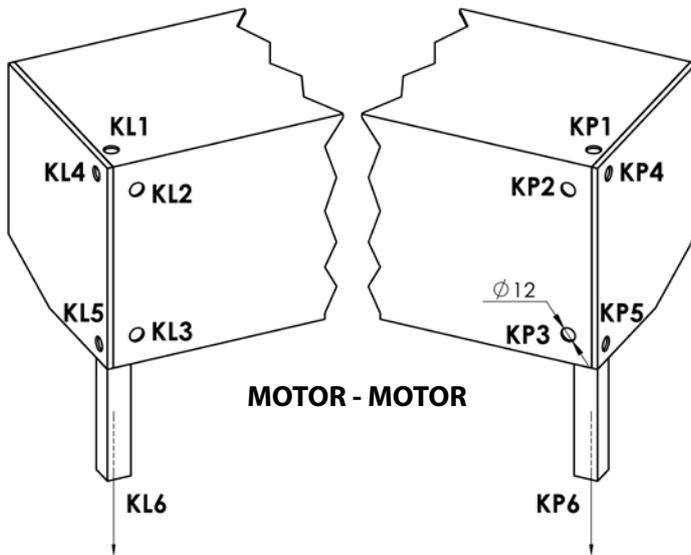
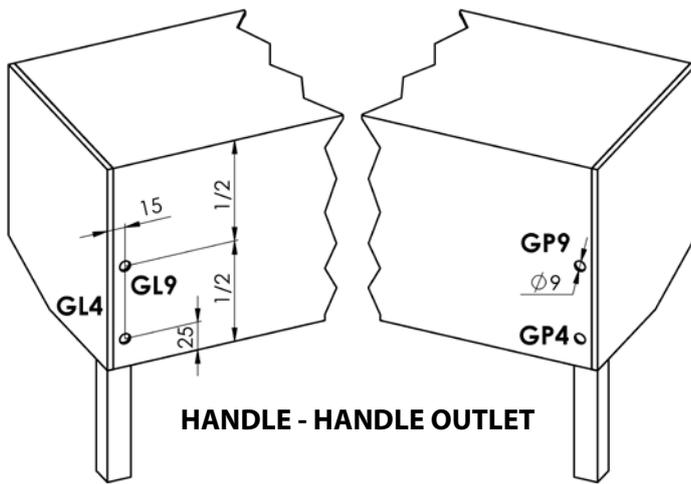
Note: In case of double rails, do not select a motor to both sides!

## Continuous box – two guiding channels



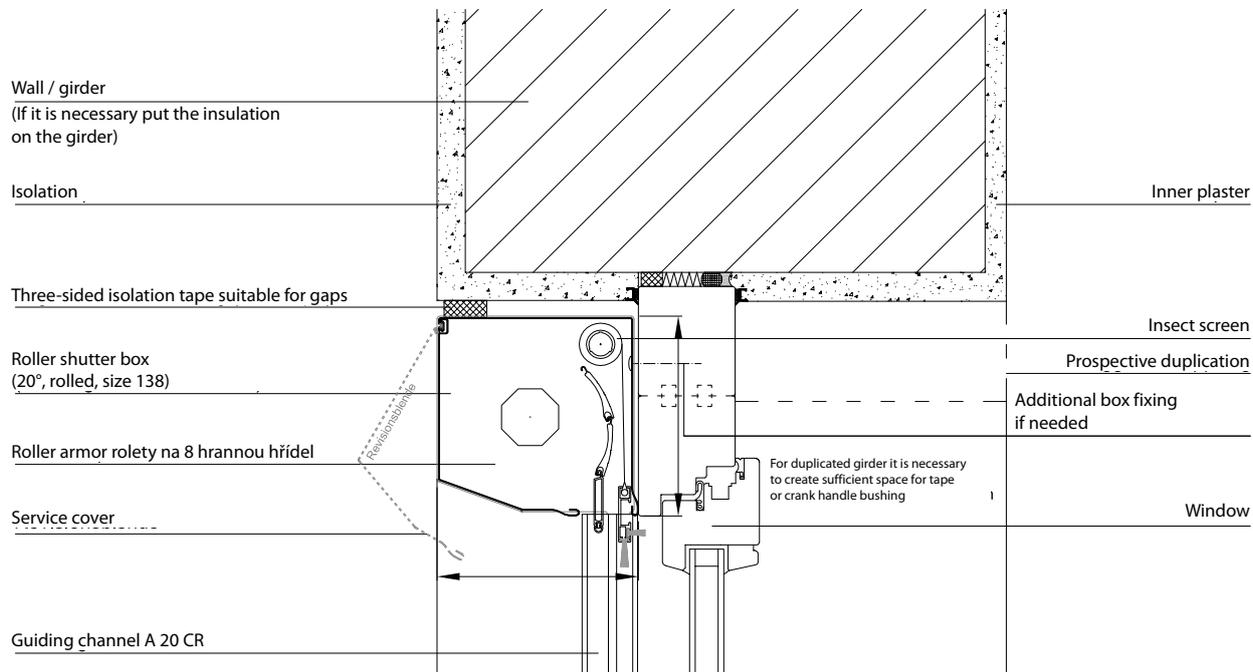
Note: Cables for roller shutters in a common box are led out of the box in the place of entry, they are not guided to a central location!

**Control Placement**

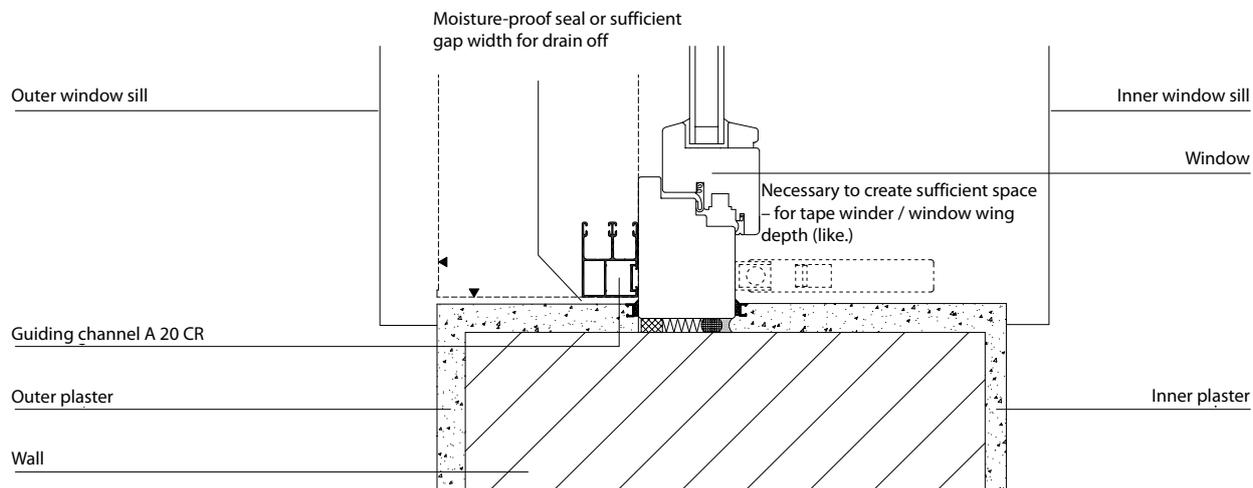


# Roller shutters with integrated insect screen – visible box

**Detailed connection – side view  
(upper part)**



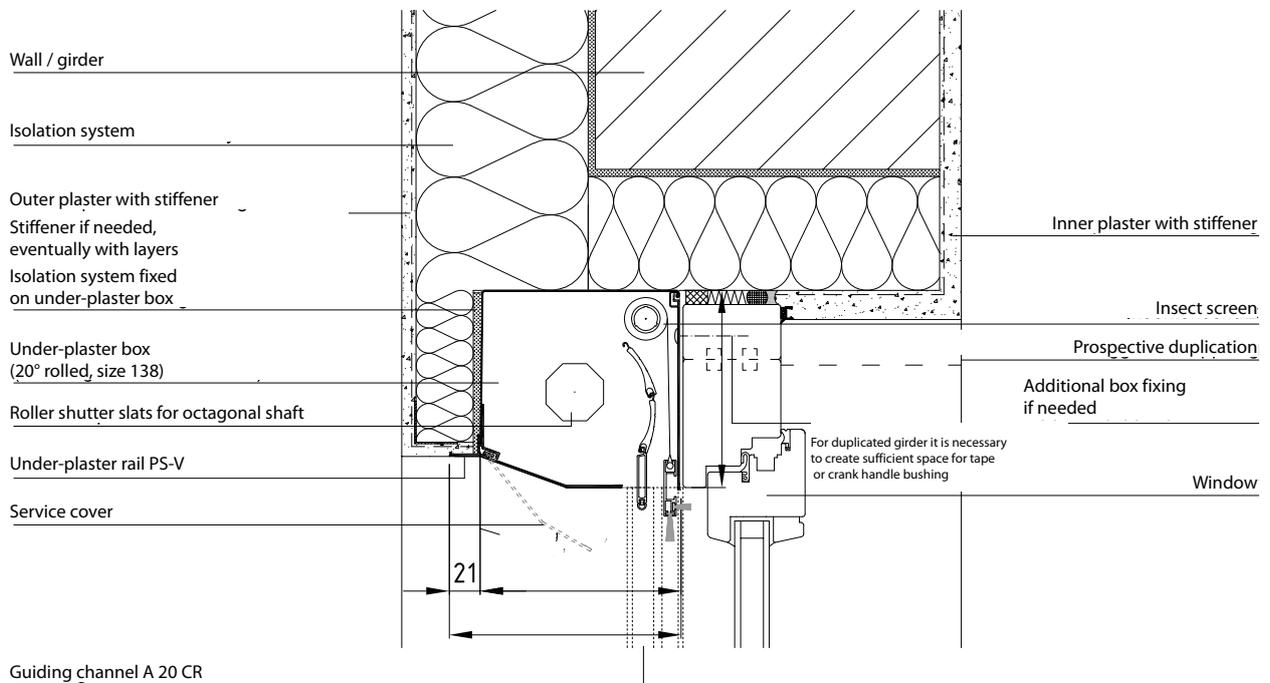
Necessary to create sufficient space for extended weatherboard placed by windows connection



**Detailed connection – side view  
(lower part)**

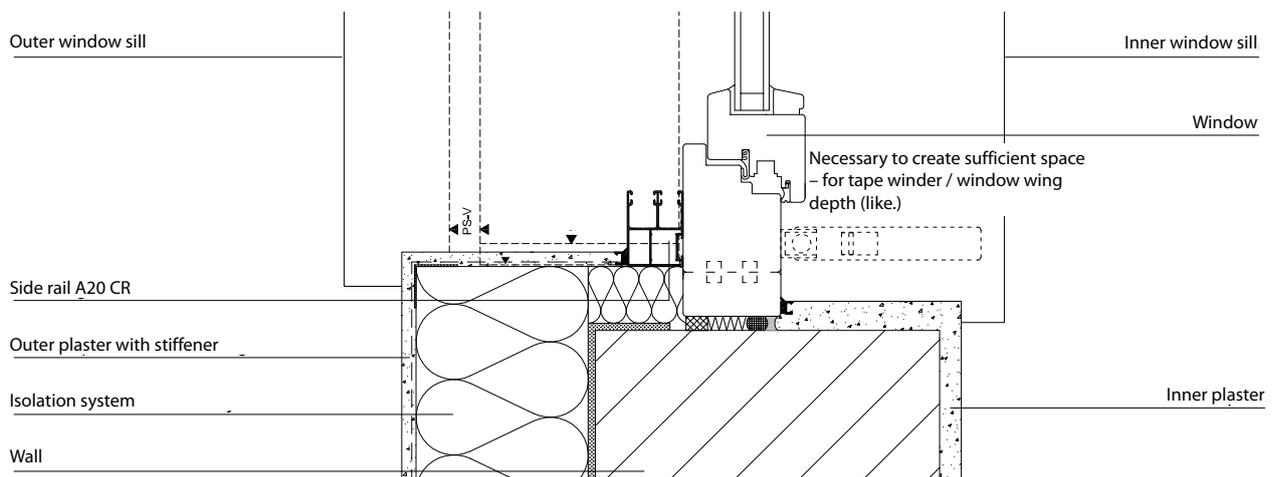
# Roller shutters with integrated insect screen – under-plaster box

**Detailed connection – side view  
(upper part)**



Box must not move and has to be fixed additionally

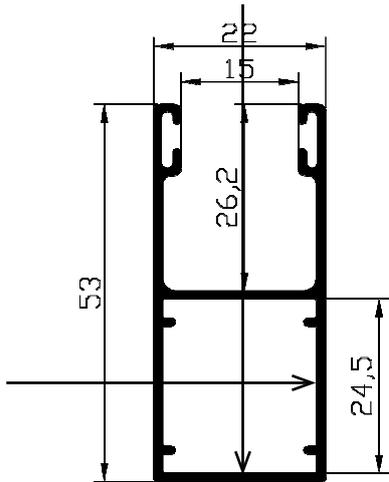
Necessary to create sufficient space for extended weatherboard placed by windows connection



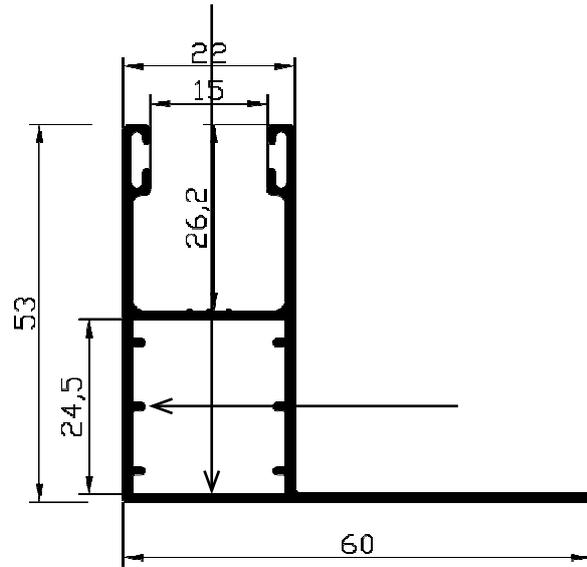
**Detailed connection – side view  
(lower part)**

## Guiding channels

Guiding rail A3 (6-001786-xxxx) - standard

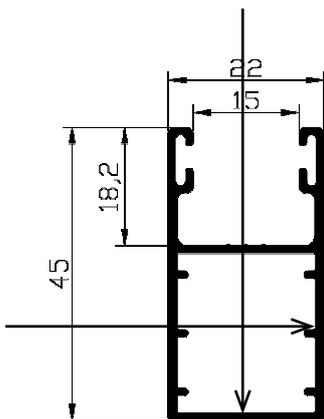


Guiding rail A4 (6-001788-xxxx)

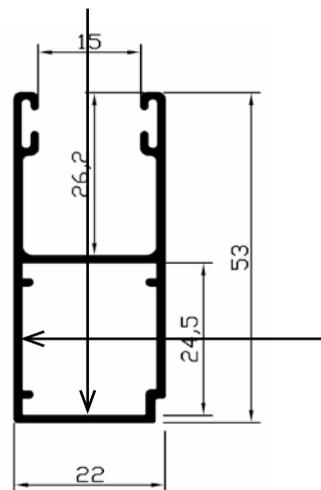


Note: Rail for the FAR or FAG safety cover

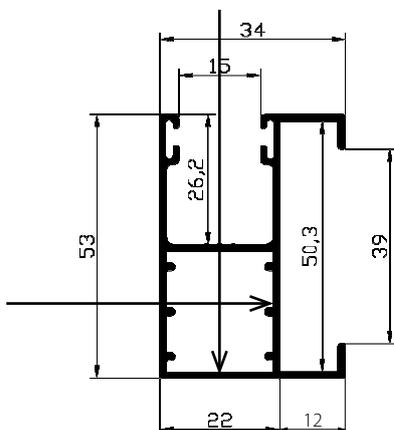
Guiding rail A5 (6-002595-xxxx)



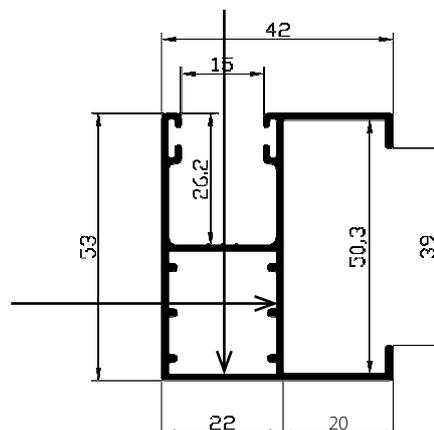
Guiding rail A3-ES V2 (6-003879-xxxx)



Guiding rail A8 - 12 (6-002599-xxxx)



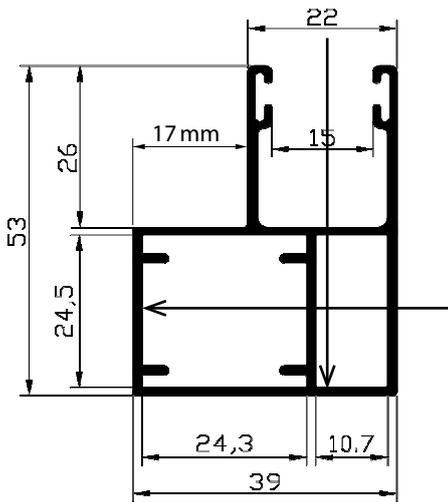
Guiding rail A8-20 (6-002600-xxxx)



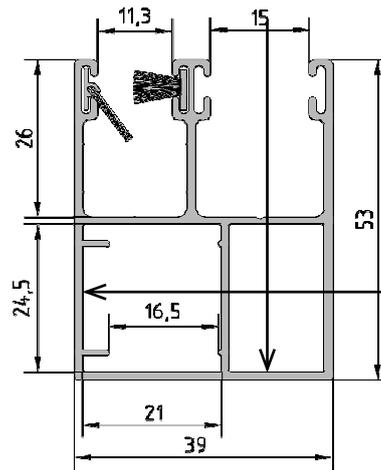
It allows a 12 mm offset from the window. A gap will appear between the box and the window.

It allows a 20 mm offset from the window. A gap will appear between the box and the window.

Guiding rail A15 (6-001794-xxxx)

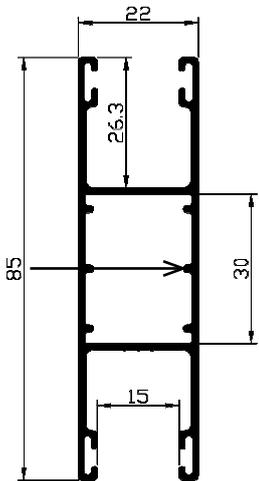


Guiding rail A20 (6-001926-xxxx) Sectra

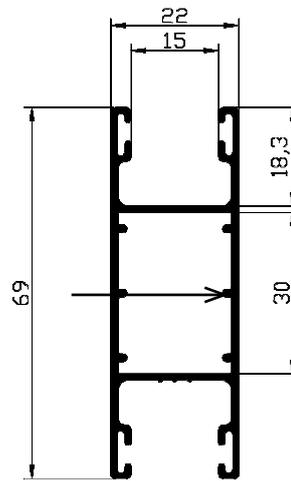


Note: Allows a 17 mm clearance from the window without creating a gap between the window and the roller shutter's backside.

Guiding rail DF-A3 (6-002601-xxxx)

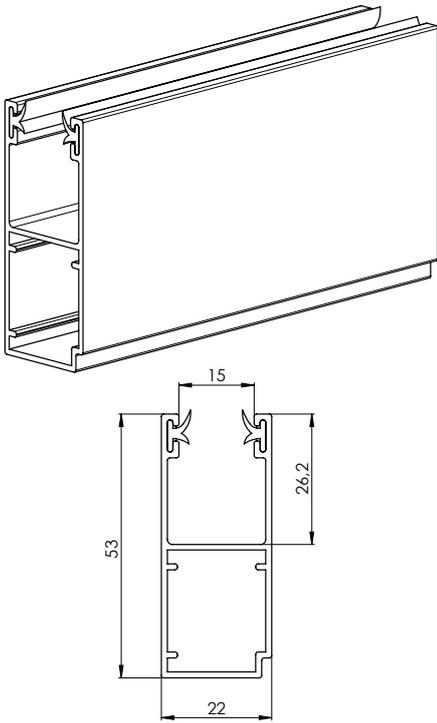


Guiding rail DF-A5 (6-001808-xxxx)

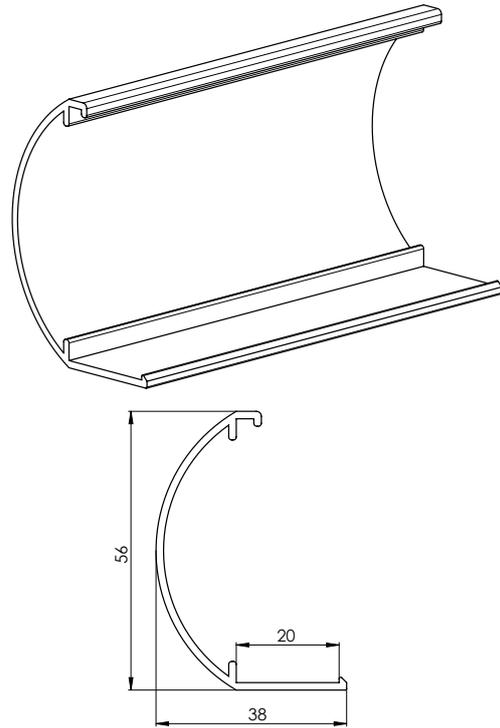


## The elements to secure external roller shutter - safety components

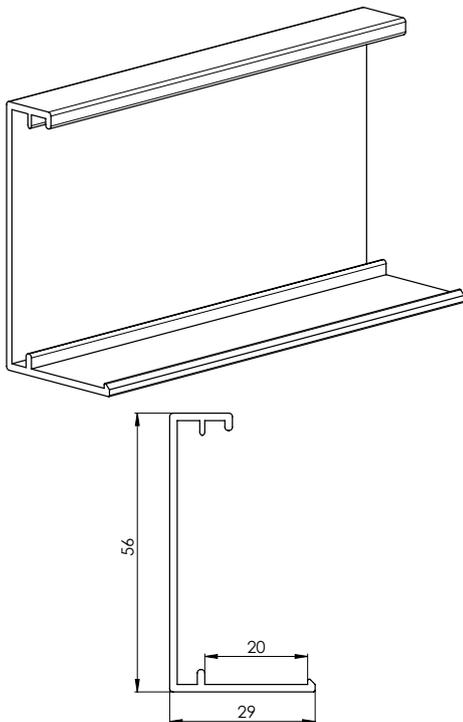
Guiding rail A3-ES V2 (6-003879)



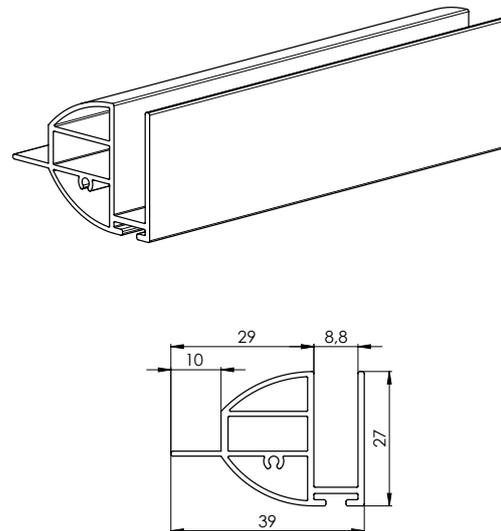
Guiding rail cover FAR-ES V2 (6-003880)



Guiding rail cover FAG-ES V2 (6-012000)



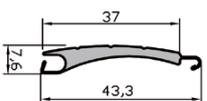
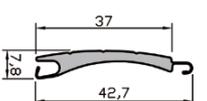
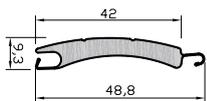
Special end rail (6-012001)



Note: Safety components for guide rails can only be selected within the MY442 slat, the special end rail is supplied automatically.

# Slats

## Standard

M317	M328	MY442
Vivera, Heluz	Vivera, Heluz	Vivera, Heluz
Al	Al	Al
		

### Technical Data (mm)

	M317	M328	MY442
Covering height	37	37	42
Thickness	7,6	7,8	9,3
Material thickness	0,3	0,28	0,3
Weight	2,8 kg/m <sup>2</sup>	2,6 kg/m <sup>2</sup>	2,85 Kg/m <sup>2</sup>
Maximum Width	2900	2700	4000
Maximum Area	6,5 m <sup>2</sup>	5,8 m <sup>2</sup>	8,5 m <sup>2</sup>

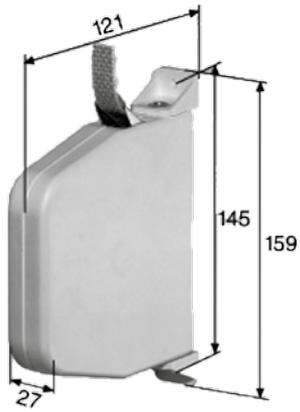
M317	M328	MY442
01 white	● 01 white	● 01 white
02 grey	●x 02 grey	●x 02 grey
03 velvet brown	● 03 velvet brown	● 03 velvet brown
04 beige	●x 04 beige	●x 04 beige
05 dark Begie	x 07 natural	● 07 natural
07 natural	● 13 moss Green	●x 22 golden oak
09 bronze	x 22 golden oak	● 23 lighter grey
11 oak	x 27 creamy white	●x 27 creamy white
12 teak	x 30 jamaica brown	●x 30 jamaica brown
13 moss Green	●x 35 sand-begie	●x 38 anthracite grey
14 purple red	x 38 anthracite grey	● 84 ivory
22 golden oak	● 84 ivory	●x 86 nut
23 lighter grey	●x 86 nut	● other (consultation with SR)
27 creamy white	●x other (consultation with SR)	
37 velvet grey	x	
38 anthracite grey	●	
84 ivory	●x	
85 gray aluminum 9007	x	
other (consultation with SR)		

- standard price and standard delivery
- x standard price and delivery after consulting
- x extra charges and delivery must be consulted

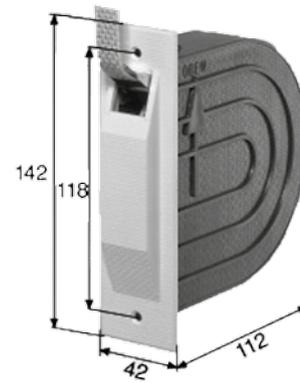


## Accessories

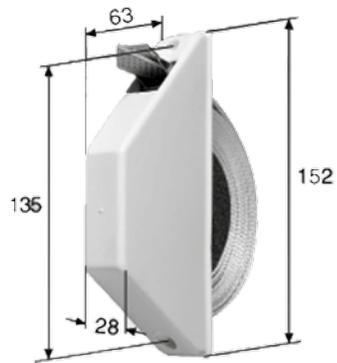
**Tape coiler PR0131**  
6-001908-XXXX  
Design: white, brown



**Flush fitting cord coiler PR0133**  
6-001913-XXXX  
Design: white, brown

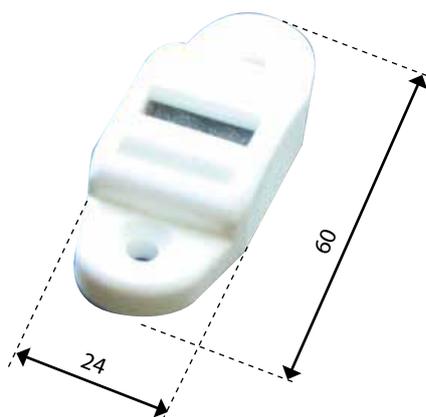


**Semi-recess tape coiler PR0286**  
6-003640-XXXX  
Design: white, brown



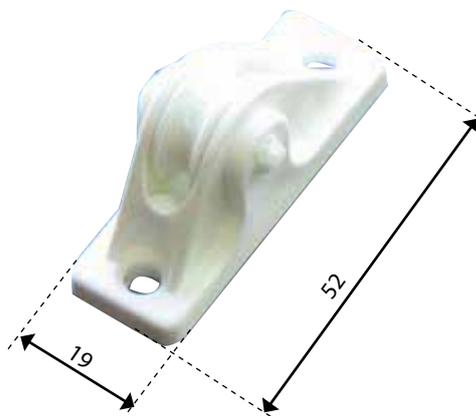
## Guides

**Tape guide PL0146**  
6-001918-XXXX



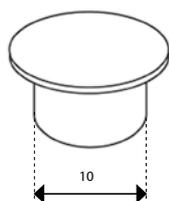
Cord colour: whitegrey, brown  
Height 18 mm

**Deflect roller for cord PR0148**  
6-001923-XXXX



Tape colour: grey, brown  
Height 28 mm

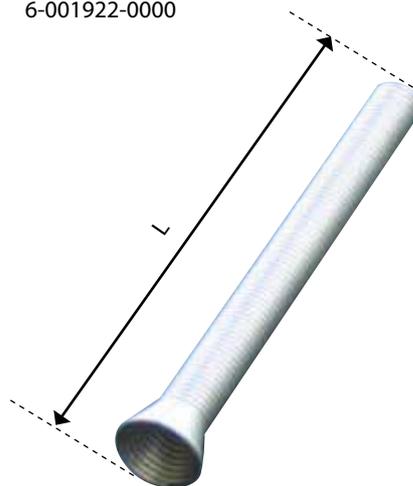
**Plug 10 mm, ZP0013/1015, 3-03684-0000**



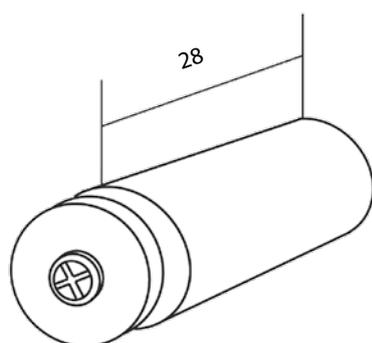
Design:

- Signal white (RAL 9003)
- Light ivory (RAL 1015)
- Clay brown (RAL 8003)
- Sepia brown (RAL 8014)
- Window grey (RAL 7040)
- Anthracite grey (RAL 7016)
- Signal black (RAL 9004)

**Cord spring (100/200 mm) PR0149**  
6-001922-0000



**Dead stop**  
6-005477-xxxx

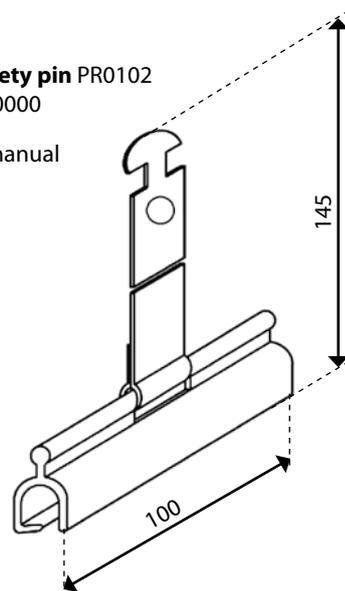


A = 28mm

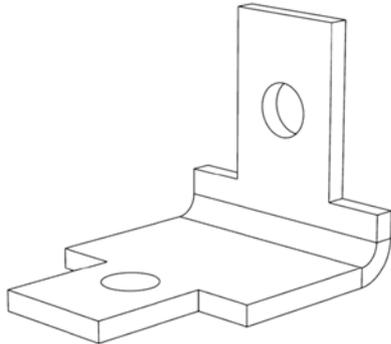
Design: white, brown, grey, black, beige

**Spring safety pin PR0102**  
6-001871-0000

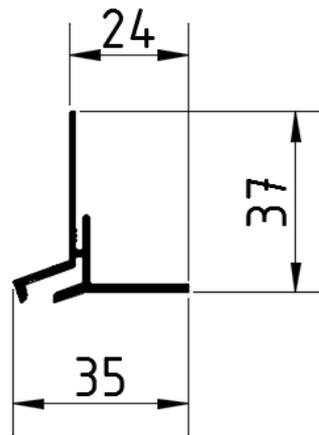
Note: for manual control



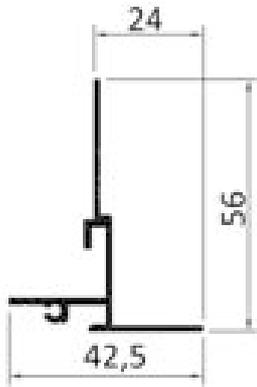
**Guide channel end parts PR0432**  
6-011947-0000



**Concealed rail for under-plaster box**



**Angles for concealed under-plaster box 90°**



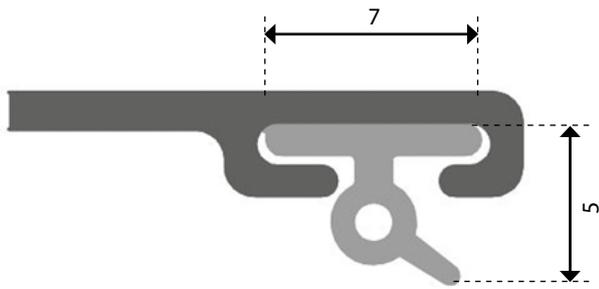
**Octoeasy suspension**

Octoeasy suspension - single-cell, shaft 40mm, box 125-165	PR0648/1	(6-013917-0000)
Octoeasy suspension - single-cell, shaft 60 mm, box 125-165	PR0648/2	(6-013918-0000)
Octoeasy suspension - double-cell, shaft 40mm, box 180-205	PR0648/3	(6-013919-0000)
Octoeasy suspension - double-cell, shaft 60 mm, box 180-205	PR0648/4	(6-013920-0000)

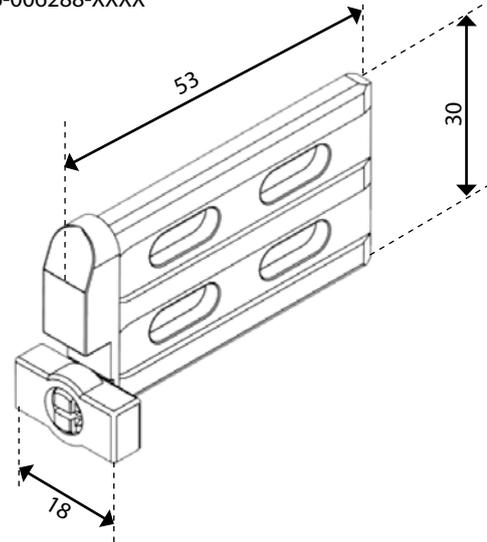


Note: for motor control

**PVC insert PR0430**  
6-001796-0000



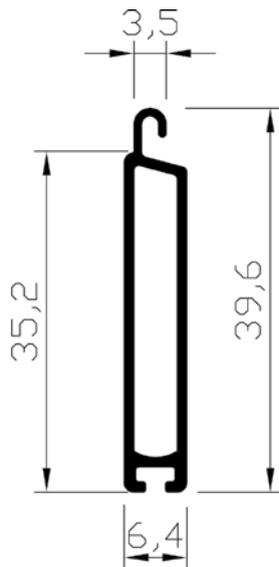
**Connecting buffer swiveling RP0291**  
6-006288-XXXX



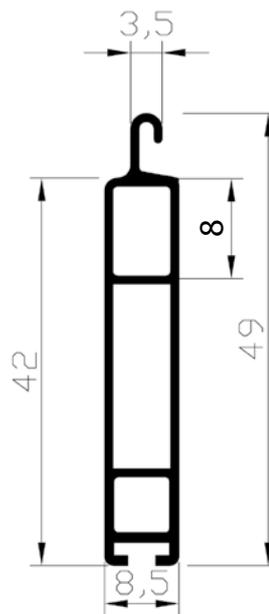
Design: white, black

### End slat

**End slat PR0431**  
6-010977-XXXX

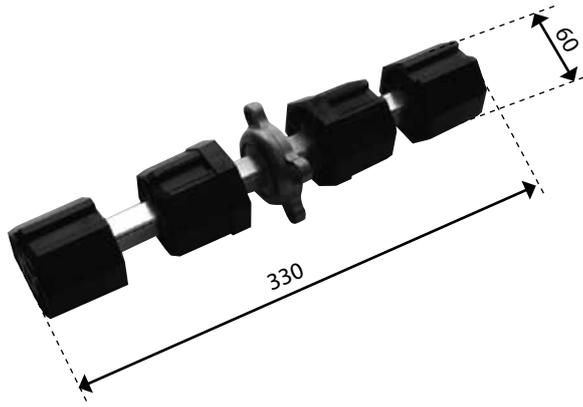


**End slat for covered stops PR0115**  
6-001858-XXXX



Note: In case of roller shutter width smaller than 1000 mm, a galvanised steel weight 18x2 mm is inserted in the lower rail.

**Double shaft bolt**  
6-010973-0000



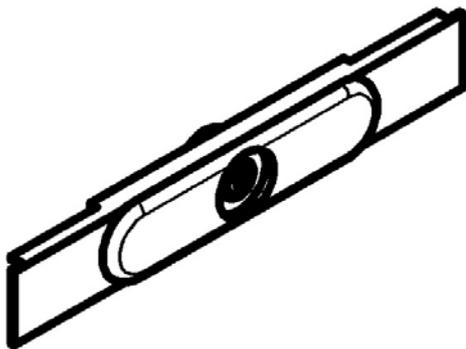
**Linkage (120/130/140/150/160 mm)**

- 6-001883-0000
- 6-002704-0000
- 6-002706-0000
- 6-002707-0000
- 6-002708-0000

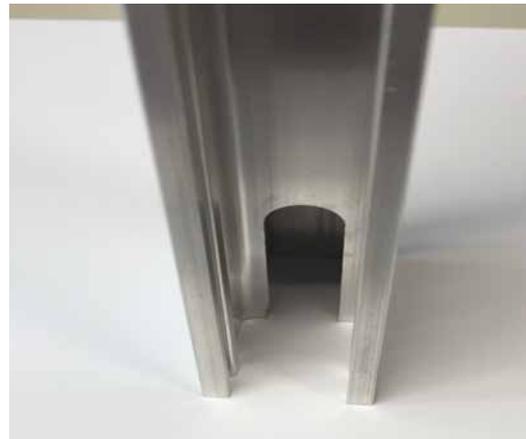


Design: white

**Cylinder round lock PR0207**  
6-002131-xxxx



**Groove in side guide rail for cylinder lock**







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