

ISOTRA®

TECHNICAL MANUAL

INTERIOR FABRIC ROLLER BLINDS

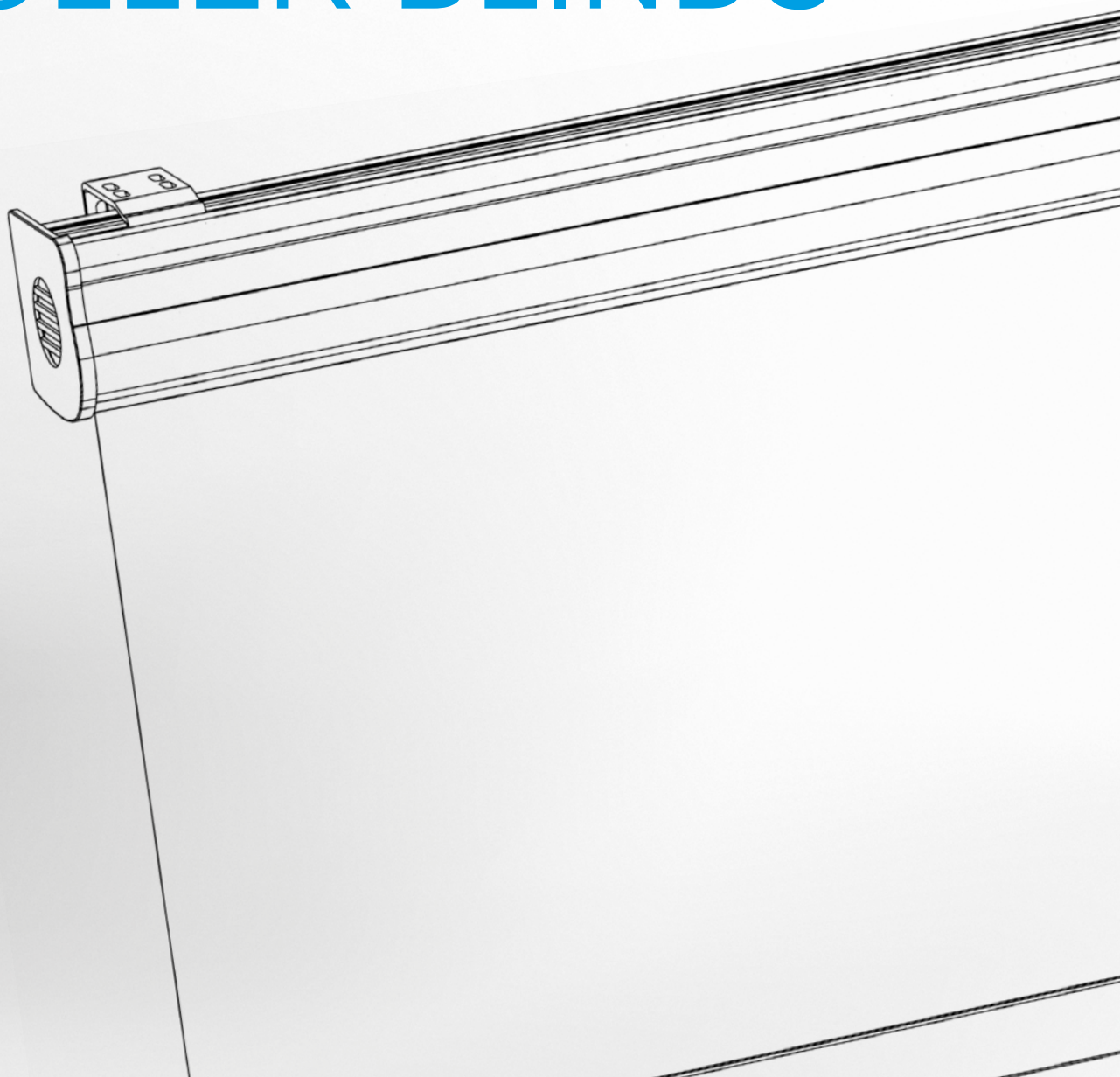


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Products in this assortment group are always measured from the interior.

Due to continuous development of our products, we reserve the right to slight differences in design from the illustrations.

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.

Luna

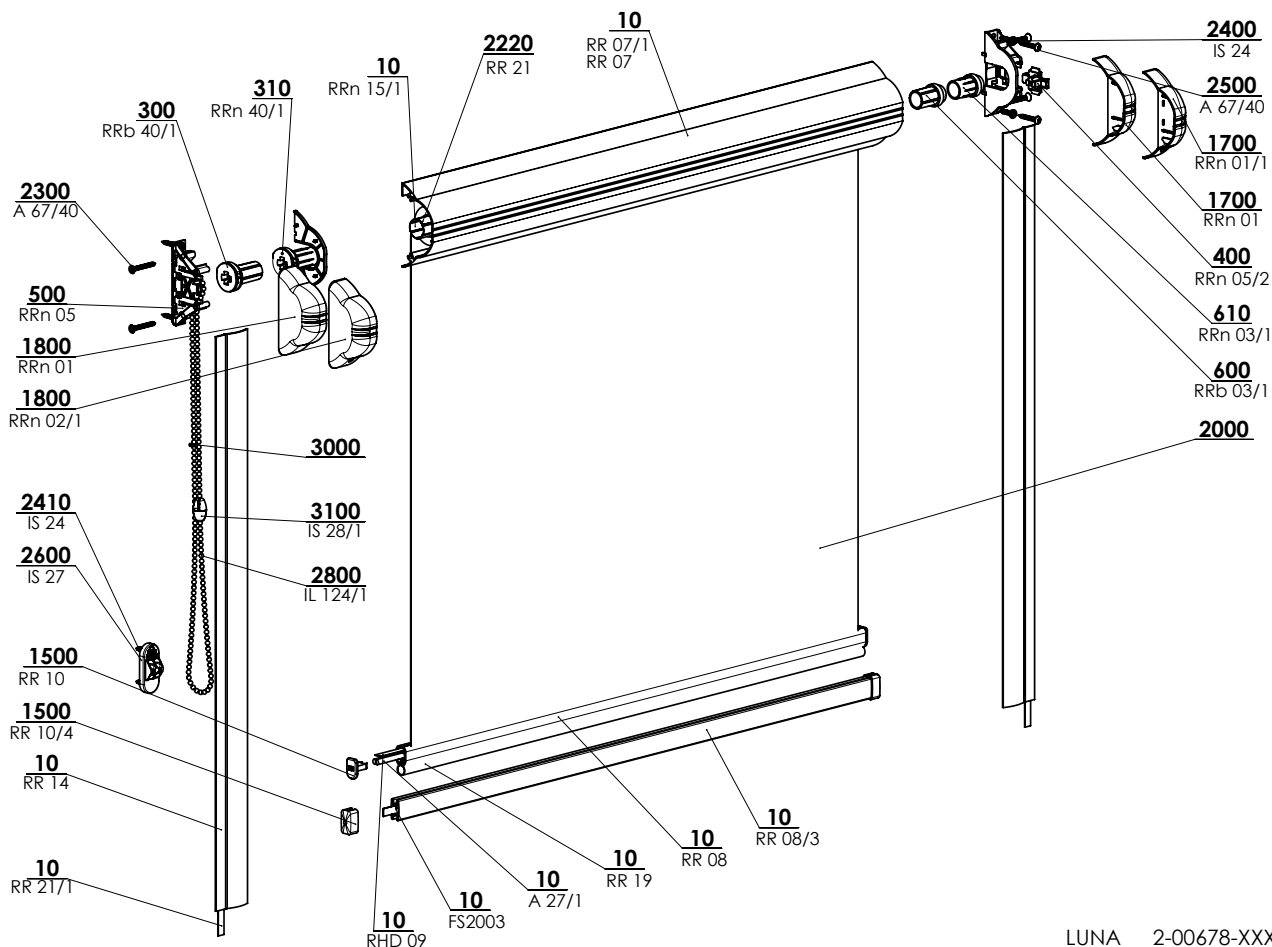


- ▲ Roller blind with aluminium or plastic covering rail.
- ▲ The side guides prevent light penetration along the sides

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Luna Interior Roller Blind

Basic Product Specification

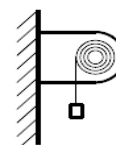


LUNA 2-00678-XXXX-E

Manual control






Thin chain \varnothing 3.2 for raising and dropping roller blind (colour matching profile colour).

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant. Minimum length of control for roller blind with the fabric day-night equals the height of roller blind.



A - winding towards window (standard)

Specification

	Thin tube	Head rail		Bottom profile for classic design		Guidance
						Guiding channel flat
Trade name	RRn 15/1	RR 07	RR 07/1	RR 08	RR 08/3	RR 14
Dimensions (mm)	\varnothing 15	66 x 35 x 1	66 x 35 x 1	10 x 15	8 x 16	33,5 x 4 x 1
Material	Fe	Al	PVC	Al	Fe	Al
						
Color		Standard: RAL 8014 brown, RAL 9003 white Extra charge: RAL 9006 silver, RAL 8004 chestnut, RAL 1002 beige, RAL 1015 ivory				

Standard dimensions

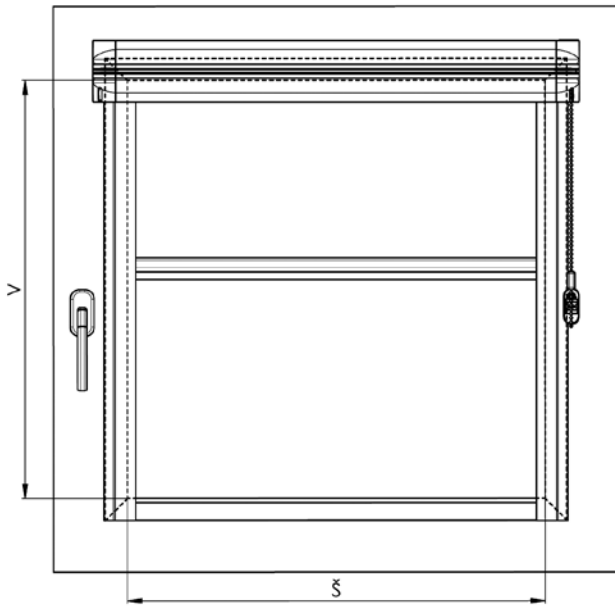
Width (mm)		Height (mm)		Max. guaranteed area (m ²)
min.	max.	min.	max.	max.
300	1400	300	1700	1,5

Luna (2-00678-0001)

Position	Item name	Abbreviation	Drawing number
10	Head rail - Al	RR 07	7-300212-xxxx
10	Flat wire Fe/Zn	A 27/1	6-000144-0000
10	Plastic tape 6mm	RHD 09	6-001294-0000
10	Bottom rail rubber seal	RR 19	6-001307-xxxx
10	Adhesive tape, double	RR 21/1	6-001311-0000
10	Ensuring ribbon 8x0,4mm	FS2003	6-017815-0000
10	Tube Fe 15mm with tape	RRn15/1	6-011145-0000
10	Bottom rail Fe	RR 08/3	6-011146-xxxx
10	Bottom rail Al	RR 08	7-300213-xxxx
10	Guide rail flat profile - Al	RR 14	7-300214-xxxx
300	Control - tube 15	RRb40/1	2-00825-0000
310	Control	RRn40/1	2-00679-0000
400	Driving	RRn05/2	3-01870-0000
500	Board	RRn05	3-01869-0000
600	Driving case (Fe tube 15)	RRb03/1	3-01983-0000
610	Driving case	RRn03/2	3-01874-0000
1500	Bottom Al rail cover	RR 10	3-00209-xxxx
1500	Bottom rail cover	RR 10/4	6-011132-xxxx
1700	Cover R	RRn01/1	3-01872-xxxx
1700	Cover complete	RRn01	3-01974-xxxx
1800	Cover L	RRn02/1	3-01871-xxxx
1800	Cover complete	RRn01	3-01974-xxxx
1200	Fabric		see Fabric swatch
2220	Adhesive tape, double	RR 21	6-001310-0000
2300	Screw 3,5x25 mm	A 67/40	6-010717-0001
2400	Screw 3,5x12 mm	IS 24	6-000965-0001
2410	Screw 3,5x12 mm	IS 24	6-000965-0001
2500	Screw 3x25 mm	A 67/40	6-010717-0001
2600	Chain holder	IS 27	2-00004-xxxx
2800	Chain - thin	IL 124/1	6-000957-xxxx
3000	Chain connector	IS 28	3-00047-xxxx
3100	Chain connector	IS 28/1	2-01039-xxxx

Luna Interior Roller Blind

Measurement and Assembly Manual



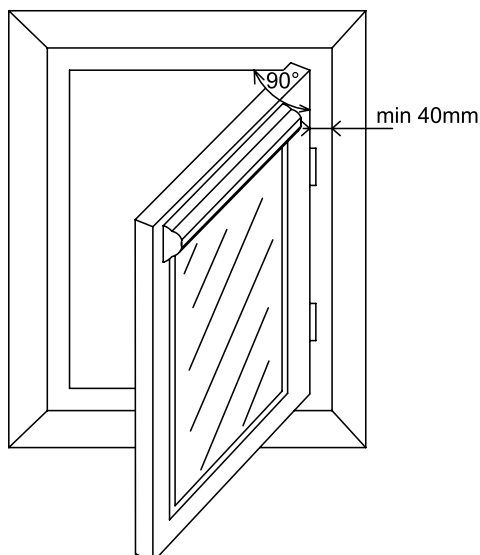
1. Assembly in window wings:

Ordering dimensions (dimensions of finished roller blind):

roller blind width W = width from left top of glazing bar to right top of glazing bar, at the attachment point of the roller blind. In the case of windows with a square glazing bar the roller blind width is equal to the width of the glass pane, including the rubber or silicone seal. In case of off set or otherwise shaped glazing bars the measurement should be consulted.

roller blind height H = the height from the top of the glazing bar to the bottom of the glazing bar.

Note: In the case of the off set LUNA roller blind the total dimensions of the roller blind is specified including the top section, side plates with covers.



Note:

In order to be able to open the window to 90°, the minimum distance between the window wing frame and window lining must be 40 mm.

Luna Interior Roller Blind

Measurement and Assembly Manual

Note: For installation of the Luna roller blind the minimum depth of the glazing bar is 14 mm.

Tools for Assembly:

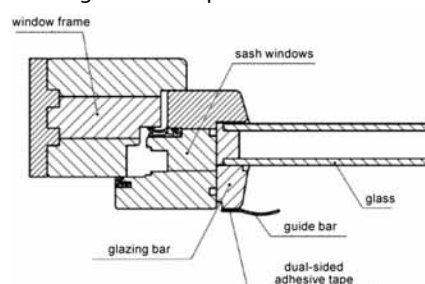
- tape measure
- drill, drill bits
- bits PZ1, PZ2
- pencil, cutter, scissors
- degreasing agent (soapy water, technical benzene, etc.)

	Installation of side plate R+L	Attachment of top section	Attachment of chain mechanism
screw	3 x 12	3 x 20	3,9 x 16
drill Ø	2 mm	-	3 mm

Assembly:

- Remove the side covers of the roller blind RRn 02/1 and RRn 01 (left control), by pulling towards yourself.
- Place the roller blind onto the window wing and check that it fits the window width. Check that the blind control elements are on the correct side, we recommend marking the position of the screws, using the openings in both side plates, onto the glazing bar of the window wing; take care that the roller blind is horizontal!
- We recommend you check the quantity and type of supplied screws and pre-drill four holes for attaching the roller blind using a thin drill bit.
- Using the supplied screws attach the roller blind to the glazing bars on the left side and also on the right side. In case of off set or otherwise shaped glazing bars it is necessary to place distance washers under the roller blind and guide bars (not included in delivery).
- Using the supplied screws attach the roller blind to the glazing bars on the left side and also on the right side. In case of off set or otherwise shaped glazing bars it is necessary to place distance washers under the roller blind and guide bars (not included in delivery).
- If screws cannot be used to attach the roller blind, attach double-sided adhesive tape along the entire length of the top section RR 07, as well as on the bottom surfaces of both side plates, and attach the roller blind to the window which must be thoroughly cleaned and degreased.
- Place the side covers back onto the roller blind.
- Installation of guide bars:
Check the correct length of the guide bars, remove the protective layer from the double-sided adhesive tape and attach the guide bars to a thoroughly cleaned and degreased glazing bar according to the diagram below.

- Setting bottom stop:

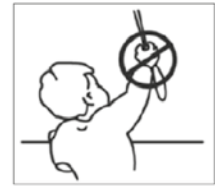
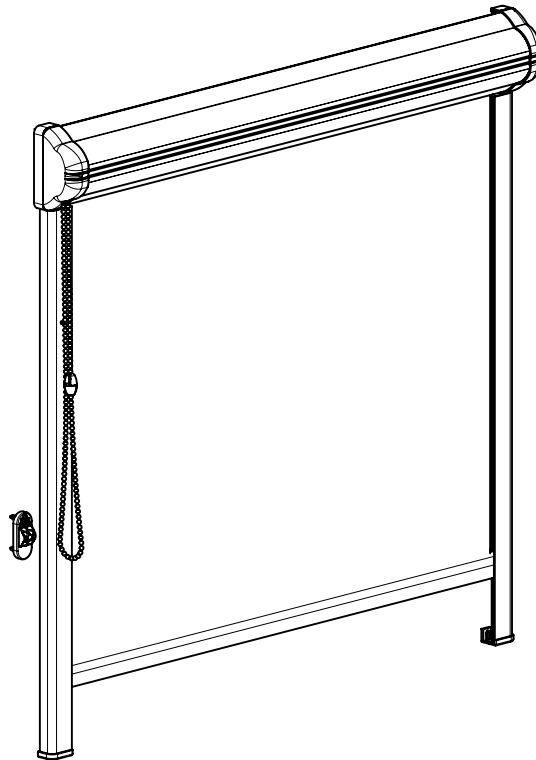
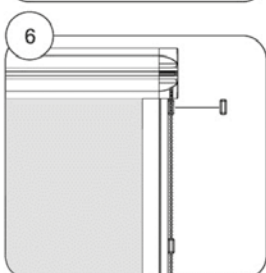
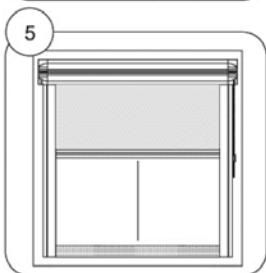
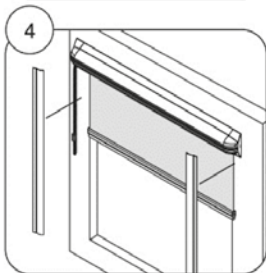
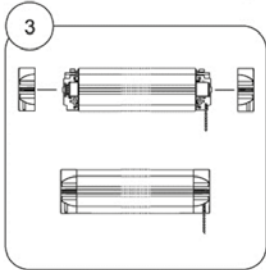
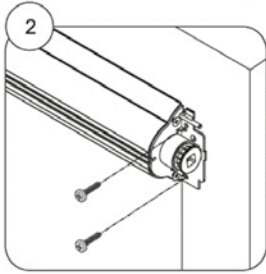
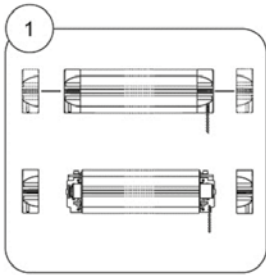


- Drop the blind to the bottom position and attach the chain coupling IS 28 to the chain so that it touches the top side cover and close the coupling with an audible click. Screw tight the chain arrester.

Luna Interior Roller Blind

Measurement and Assembly Manual

The Roller blind is installed according to norm about security elements EN 13120.



Nemo

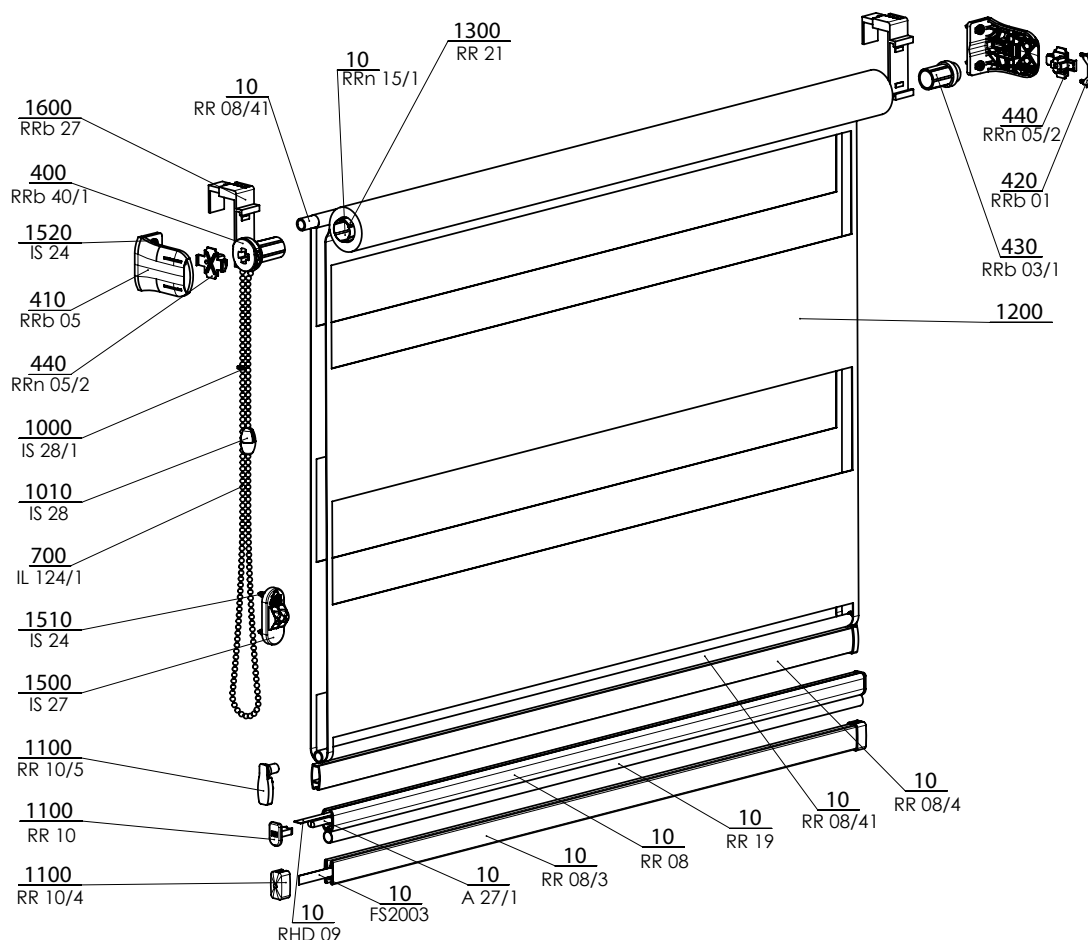


- ▲ Roller blind on side consoles without cover profile
- ▲ Available with classic fabric or day/night fabric
- ▲ Simple design and white colour of components
- ▲ Easy control by chain
- ▲ Assembly on side consoles or suspension on the window frame (without drilling)

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Nemo Interior Roller Blind

Basic Product Specification



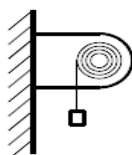
NEMO 2-00820-XXXX-C

Manual control

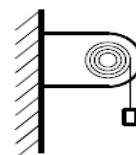
Thin chain \varnothing 3.2 for raising and dropping roller blind (colour matching profile colour).

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant. Minimum length of control for roller blind with the fabric day-night equals the height of roller blind.

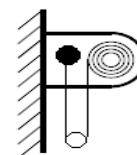
A - winding towards window (standard)








B - winding away from window



C - winding towards window (day-night)



Specification

	Thin tube	Bottom profile for classic design			Bottom profile for day-night design
Trade name	RRn 15/1	RR 08/4	RR 08	RR 08/3	RR 08/4 + tube RR08/41
Dimensions (mm)	\varnothing 15	8 x 16	10x15	8 x 16	8 x 16 + \varnothing 8
Material	Fe	Al	Al	Fe	Al + Fe tube
					
Color					RAL 9003 white

Brake	Atypical	Assembly
standard	no	onto wing onto side brackets onto wing using hangers (no drilling)

Plastic components in white colour.

Due to the development of the product, it is possible to adapt the product.

Standard dimensions

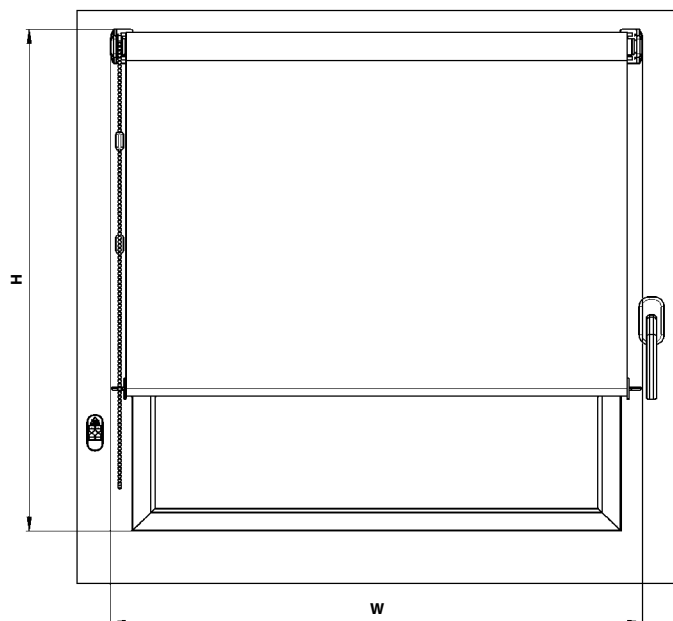
Width (mm)		Height (mm)		Max. guaranteed area (m ²)
min.	max.	min.	max.	max.
300	1400	300	1700	1,5

Nemo (2-00820-0001)

Position	Item name	Abbreviation	Drawing number
10	Flat wire Fe/Zn	A 27/1	6-000144-0000
10	Plastic tape 6mm	RHD 09	6-001294-0000
10	Bottom rail rubber seal	RR 19	6-001307-9010
10	Ensuring ribbon 8x0,4mm	FS2003	6-017815-0000
10	Tube Fe 15mm with tape	RRn15/1	6-011145-0000
10	Bottom rail Fe	RR 08/3	6-011146-xxxx
10	Bottom rail Al	RR 08/4	6-011162-9010
10	Tube Al	RR 08/41	6-011163-9010
10	Bottom rail Al	RR 08	7-300213-xxxx
400	Rollite control - tube 15	RRb40/1	2-00825-0000
410	Rollite bracket	RRb05	3-01980-9010
420	Rollite bracket cover	RRb01	3-01981-9010
430	Driving case (Fe tube 15)	RRb03/1	3-01983-0000
440	Driving	RRn05/2	3-01870-0000
700	Chain - thin	IL 124/1	6-000957-xxxx
1000	Chain connector	IS 28	3-00047-9010
1010	Chain connector	IS 28/1	2-01039-9010
1100	Bottom Al rail cover - 9006	RR 10	3-00209-9006
1100	Bottom rail cover	RR 10/4	6-011132-xxxx
1100	Weight cover - Day/Night	RR 10/5	6-011164-9010
1200	Fabric		see Fabric swatch
1300	Adhesive tape, double	RR 21	6-001310-0000
1500	Chain holder	IS 27	2-00004-9010
1510	Screw 3,5x12	IS 24	6-000965-0001
1520	Screw 3,5x12	IS 24	6-000965-0001
1600	Top bracket (set) - screwless	RRb27	6-011147-9010

Nemo Interior Roller Blind

Measurement and Assembly Manual



Assembly onto window wing:

Ordering dimensions (dimensions of finished roller blind):

Roller blind width W = actual width including control mechanism and side brackets of roller blind. The shaded area (fabric width) is 32 mm smaller than the actual width of the roller blind.

Roller blind height H = total height including side brackets of roller blind.

Tools for Assembly:

- drill, drill bits
- tape measure
- bit PZ2
- pencil, cutter, scissors

	Assembly of side plate R+L	Attachment of chain mechanism
screw	3 x 12	3,9 x 16
drill Ø	2 mm	3 mm

Assembly:

- Check the roller blind to make sure it corresponds to the required width.
- Mark the holes for attachment of the roller blind plastic side parts and drill the holes with a smaller drill bit (two anchoring points for one part), the roller blind must be fitted in a horizontal position.
- Attach the side brackets using the supplied screws.
- Insert the shaft of the roller blind, at the opposite end to the control end, into the do component with the cross pin, inserted in the side bracket.
- Fit the component with the cross pin onto the control side and insert this entire segment into the grooves of the roller blind side bracket.
- Fix the inserted shaft against falling out face covers.
- Using the second chain coupling set the bottom end position.
- Check the functionality of the roller blind and brake.

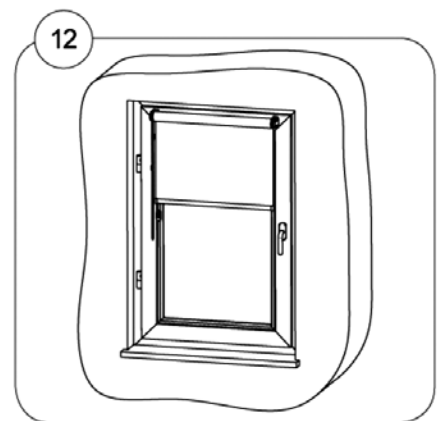
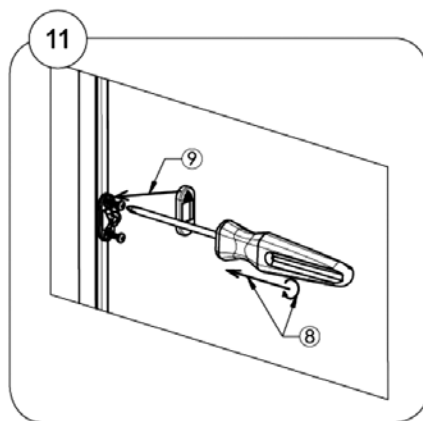
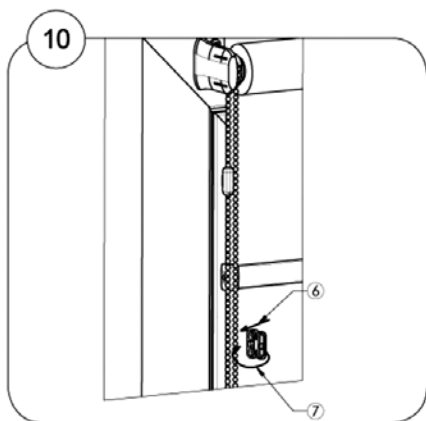
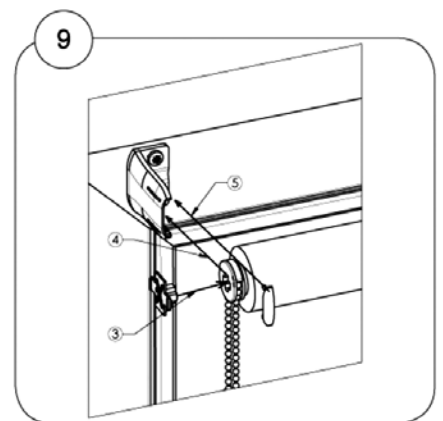
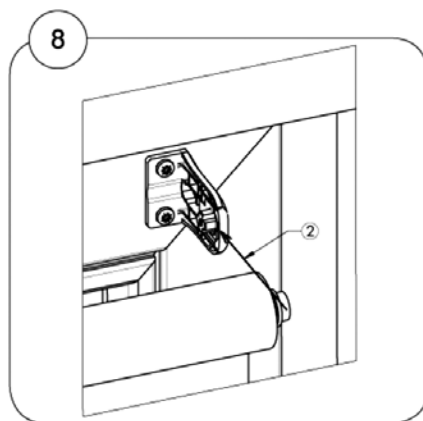
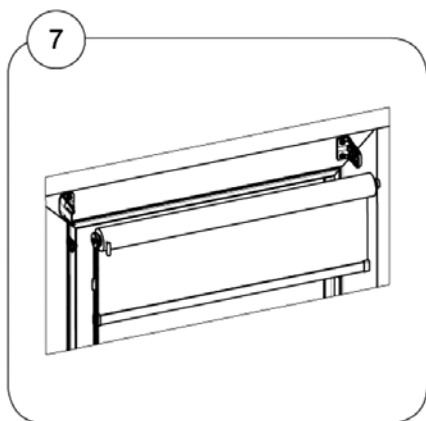
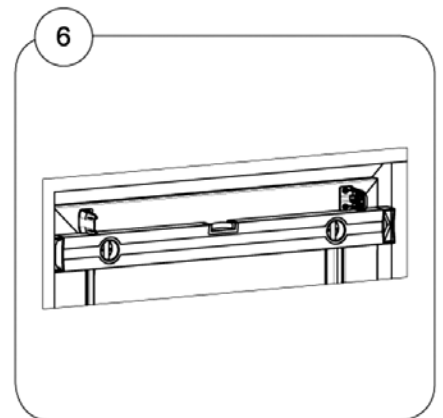
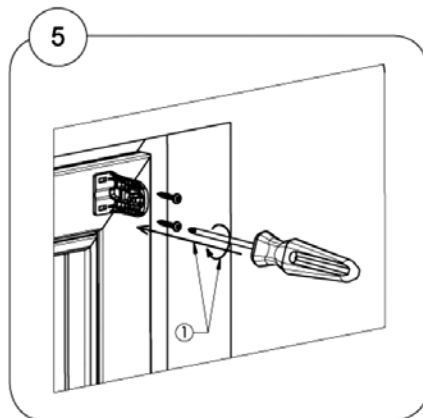
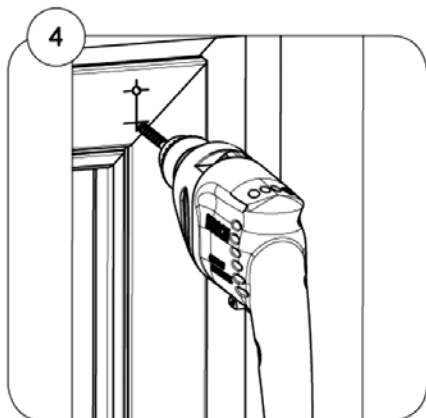
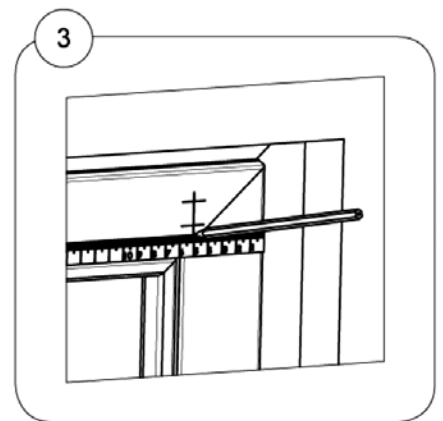
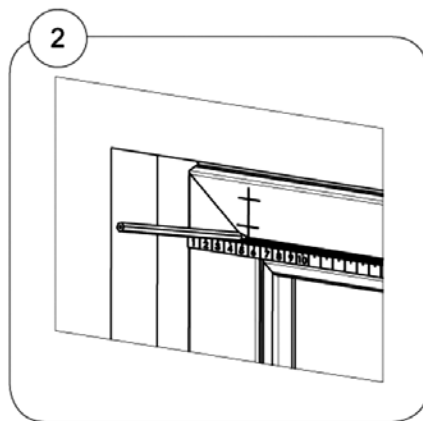
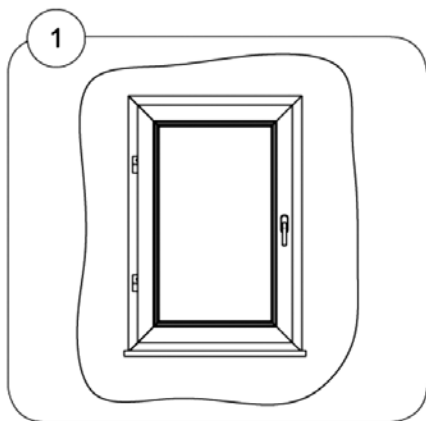
The roller blind can also be installed as a **day/night fabric version**. Prior to attaching the shaft into the side brackets the end of the fabric with section must be attached into the prepared holes in these brackets.

The roller blind can also be installed using **special hangers** without the need to screw into the window wing. The side brackets are inserted from the side into special hangers and these are then attached into window top bar.

Nemo Interior Roller Blind

Measurement and Assembly Manual

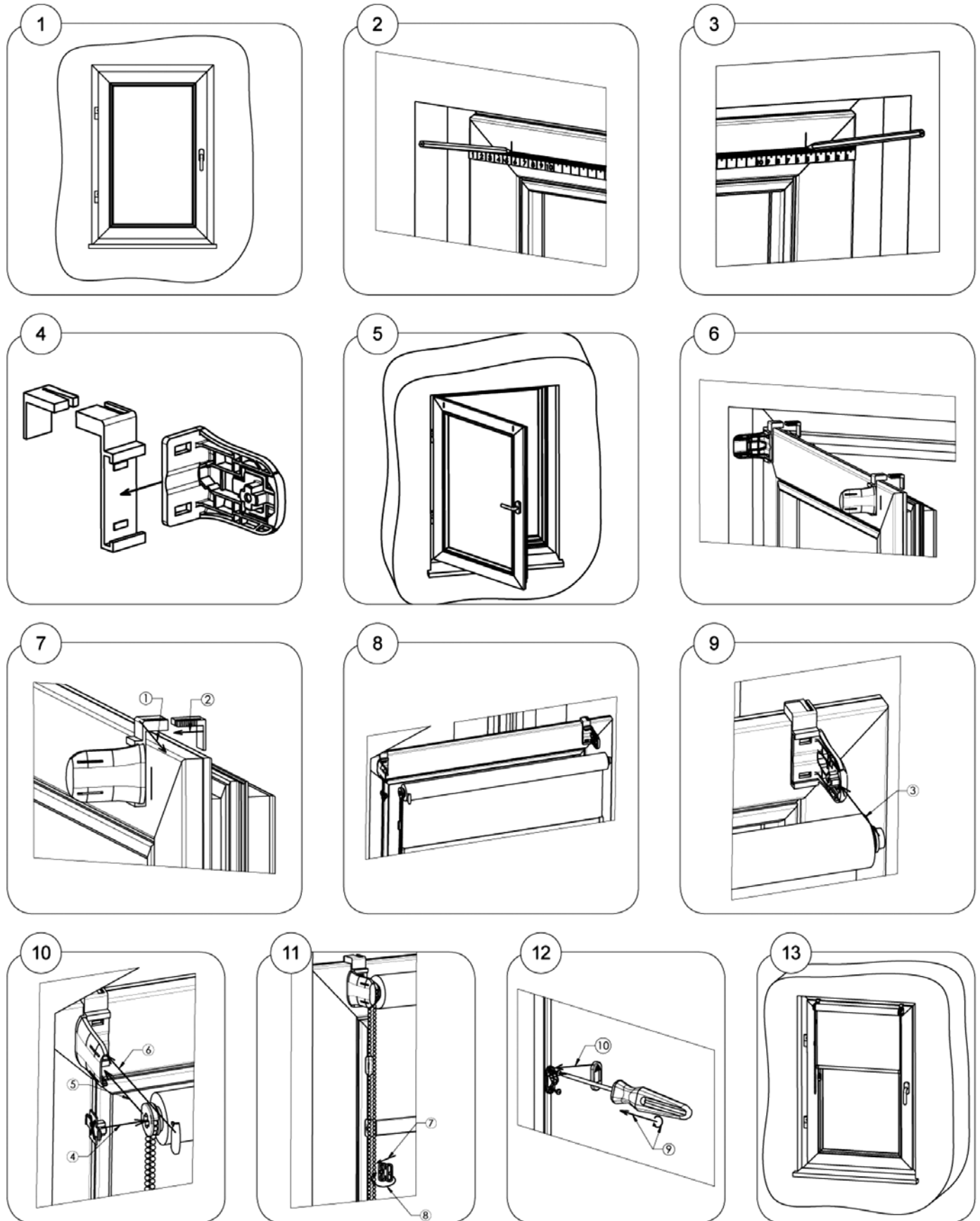
Assembly onto side brackets



Nemo Interior Roller Blind

Measurement and Assembly Manual

Assembly using hangers

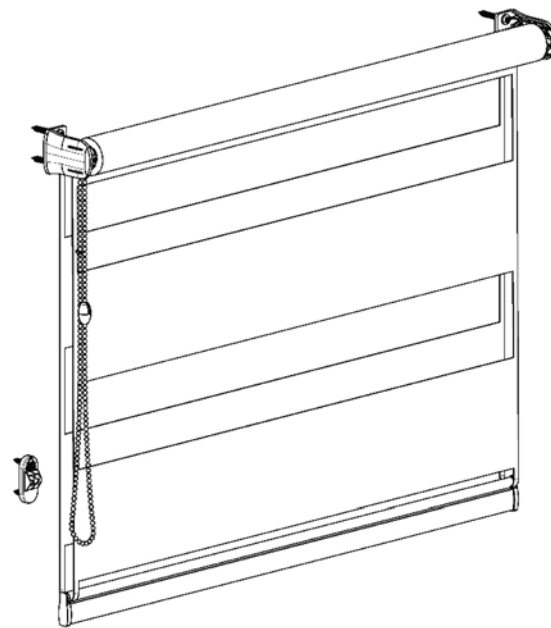
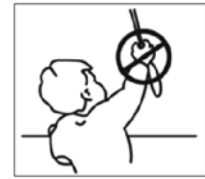
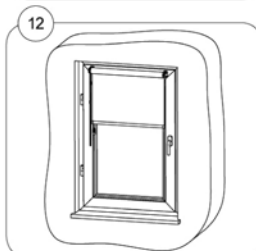
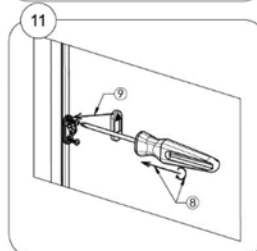
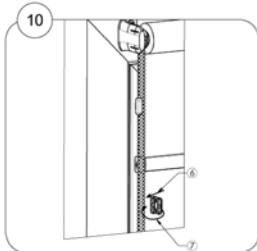
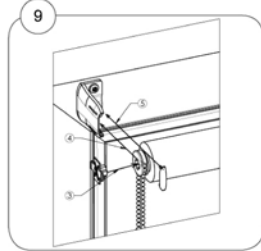
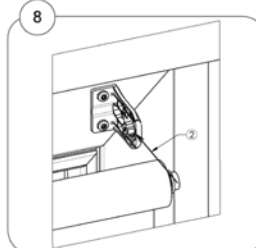
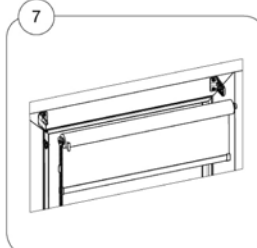
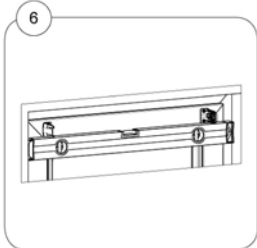
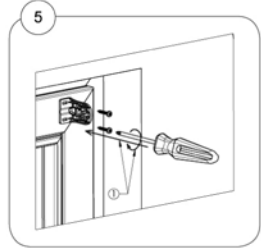
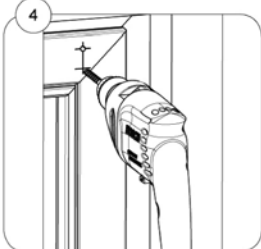
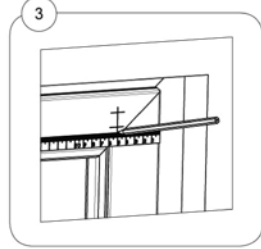
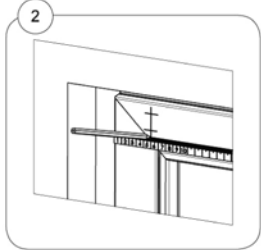
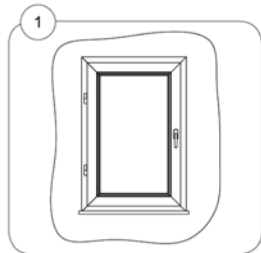


Nemo Interior Roller Blind

Measurement and Assembly Manual

The Roller blind is installed according to norm about security elements EN 13120.

Assembly into side brackets



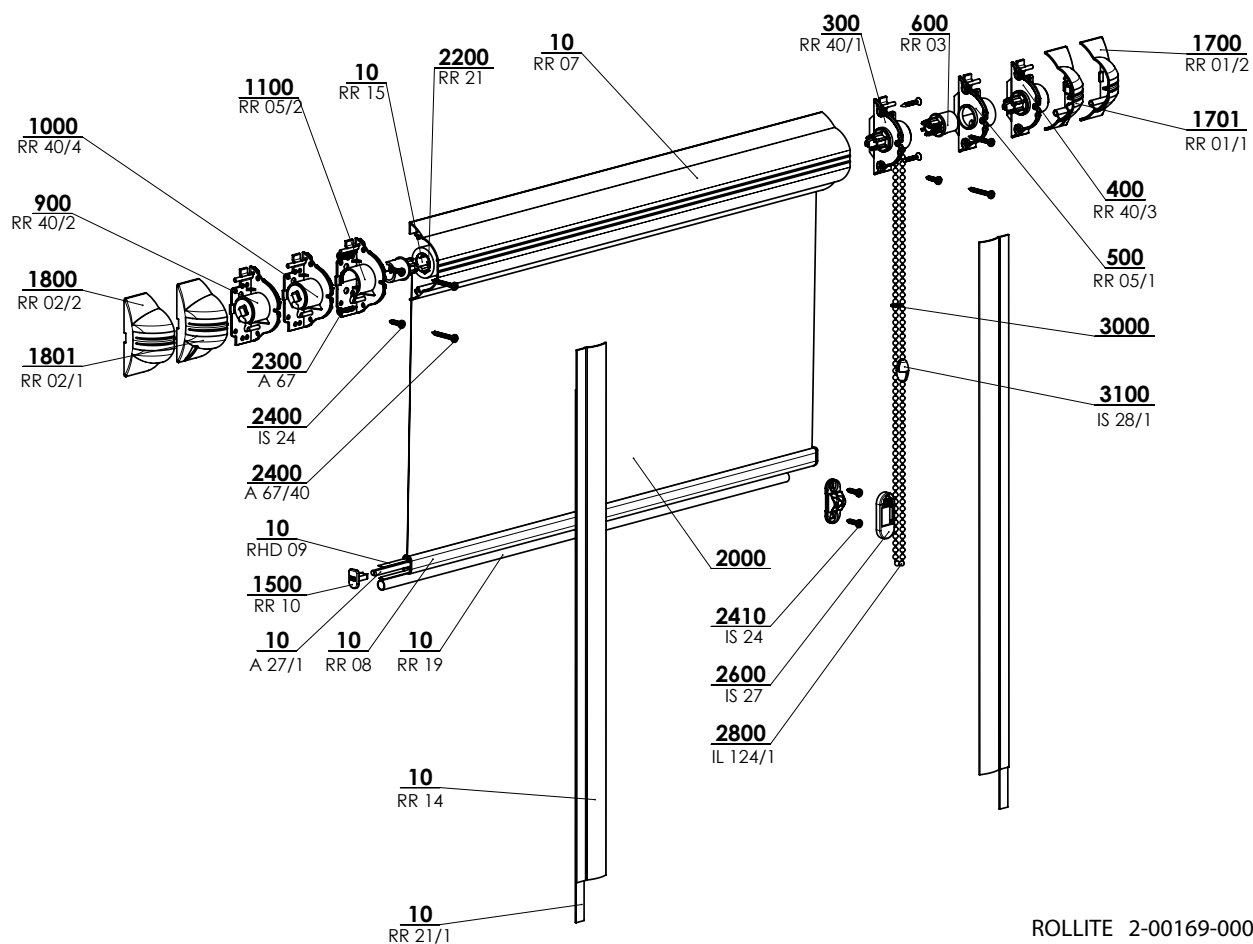


- ▲ Roller blind with an aluminium cover profile
- ▲ Aluminium guidance bars prevent the penetration of light at the sides
- ▲ Wide colour range of fabrics used
- ▲ Profiles and bars in six RAL colour shades.

ISOTRA *Quality*

Rollite Interior Roller Blind

Basic Product Specification






ROLLITE 2-00169-0001-H

Manual Control

A thin ball-chain with diameter of Ø 3,2 mm for pulling the roller blind up and down (color consistent with rail color).

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant.

Specification

	Head Rail	Bottom Rail	Guiding Channel	Brake	Assembly
Commercial Name	RR 07	RR 08	RR 14	standard	into window wing
Dimension (mm)	66 x 35 x 1	15 x 10	33.5 x 4.1 x 1.05		
Material	Al	Al	Al		
					
Color	Standard: RAL 9010 white RAL 8014 brown	Extra Charges: RAL 1002 beige RAL 1015 ivory RAL 8004 chestnut RAL 9006 silver			

Plastic components in the rail color.

Due to the development of the product, it is possible to adapt the product.

Standard Dimensions

Width (mm)		Height (mm)		Max. guaranteed area (m ²)
min.	max.	min.	max.	max.
300	1400	300	1700	1,5

We do not make atypical designs.

Rollite (2-00169-0001)

Position	Item name	Abbreviation	Drawing number
10	Flat wire Fe/Zn	A 27/1	6-000144-0000
10	Plastic tape 6mm	RHD 09	6-001294-0000
10	Bottom rail rubber seal	RR 19	6-001307-xxxx
10	Adhesive tape, double	RR 21/1	6-001311-0000
10	Bottom rail - Fe	RR 08/3	6-011146-xxxx
10	Head rail round - Al	RR 07	7-300212-xxxx
10	Guide rail flat profile - Al	RR 14	7-300214-xxxx
10	Winding roller	RR 15	7-300215-0000
300	Brake right up to 1.5 m2	RR 40/1	2-00015-0000
400	Brake right over 1.5 m2	RR 40/3	2-00017-0000
500	Side board - right	RR 05/1	3-00206-0000
600	Valve case	RR 03	3-00204-0000
900	Brake left up to 1.5 m2	RR 40/2	2-00016-0000
1000	Brake left over 1.5 m2	RR 40/4	2-00018-0000
1100	Side board - left	RR 05/2	3-00207-0000
1500	Bottom rail cover Al	RR 10	3-00209-xxxx
1700	Side cover - right	RR 01/2	3-00201-xxxx
1701	Side cover with hole - right	RR 01/1	3-00200-xxxx
1800	Side cover - left	RR 02/2	3-00203-xxxx
1801	Side cover with hole - left	RR 02/1	3-00202-xxxx
1200	Fabric		see Fabric swatch
2200	Adhesive tape, double	RR 21	6-001310-0000
2300	Screw 3x20mm	A 67	6-000175-PU22
2400	Screw 3,5x12	IS 24	6-000965-0001
2400	Screw 3x25mm	A 67/40	6-010717-0001
2410	Screw 3,5x12	IS 24	6-000965-0001
2600	Chain holder	IS 27	2-00004-xxxx
2800	Chain - thin	IL 124/1	6-000957-xxxx
3000	Chain connector		3-00047-xxxx
3100	Chain connector	IS 28/1	2-01039-xxxx

Rollite Interior Roller Blind

Measurement and Assembly Manual

Rollite with flat leading bar

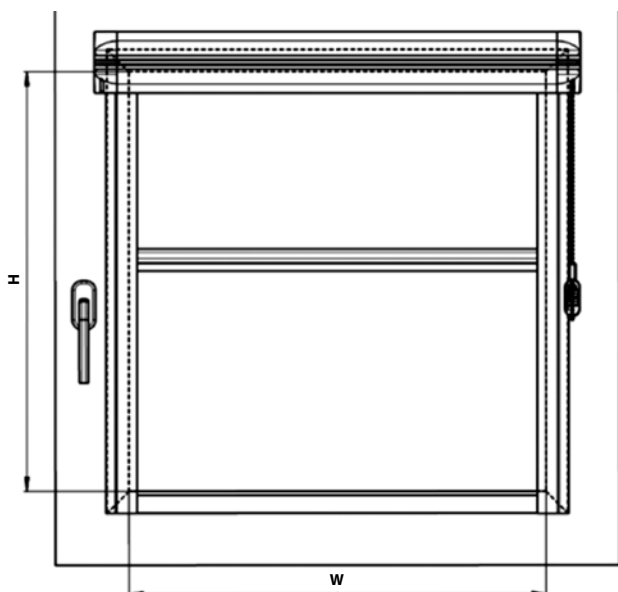
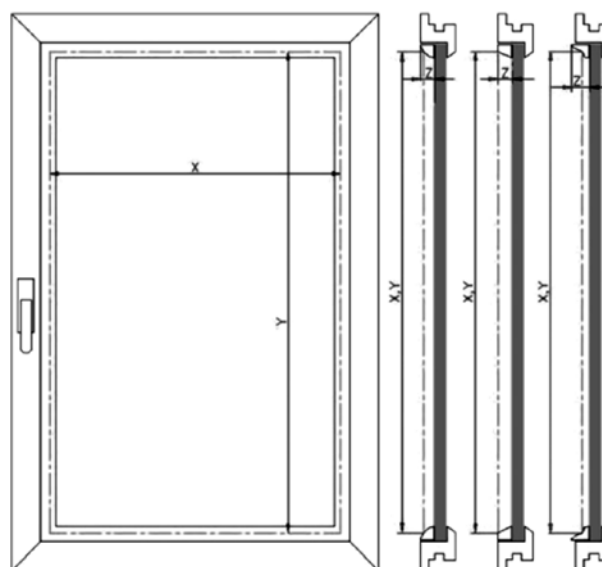


Diagram of measurement for various glazing bars



1. Measurement

The width and height of the light hole in the window wing is measured in the following manner:

W.... (width)

The measurement is from the left top point of the glazing bar to the right top point of the glazing bar on the top in the place of fixation of the blind. For windows with a perpendicular glazing bar, the width of the blind is equal to the width of the glass, including any rubber or silicon sealing. For specially formed glazing bars, it is necessary to consult the measurements with the manufacturer.

The height of the blind is produced with a precision of millimetres from the width of 300 mm up to the width of 1,400 mm. It is recommended to consult with the manufacturer if dimensions are outside the stated limits.

H (height)

Measurements are taken the same as the width, i.e. from the upper top of the glazing bar to the lower top of the glazing bar; this height is then written into the order form.

The height of the blind is produced with a precision of millimetres up to the height of 1,700 mm.

Maximum guaranteed area: 1.5 m²

It is recommended to consult with the manufacturer if dimensions are outside the stated limits.

2. Assembly

Assemble exactly according to this manual to prevent redundant assembly errors and other related problems.

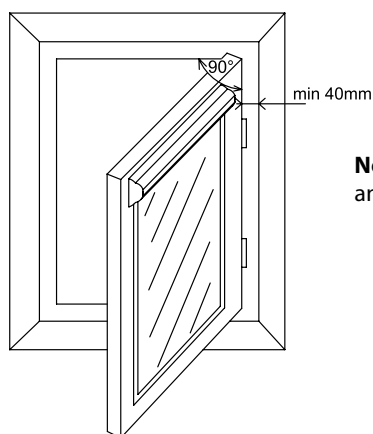
Aids for assembly:

- tape measure
- pencil
- cordless drilling machine, bit PZ2
- drills

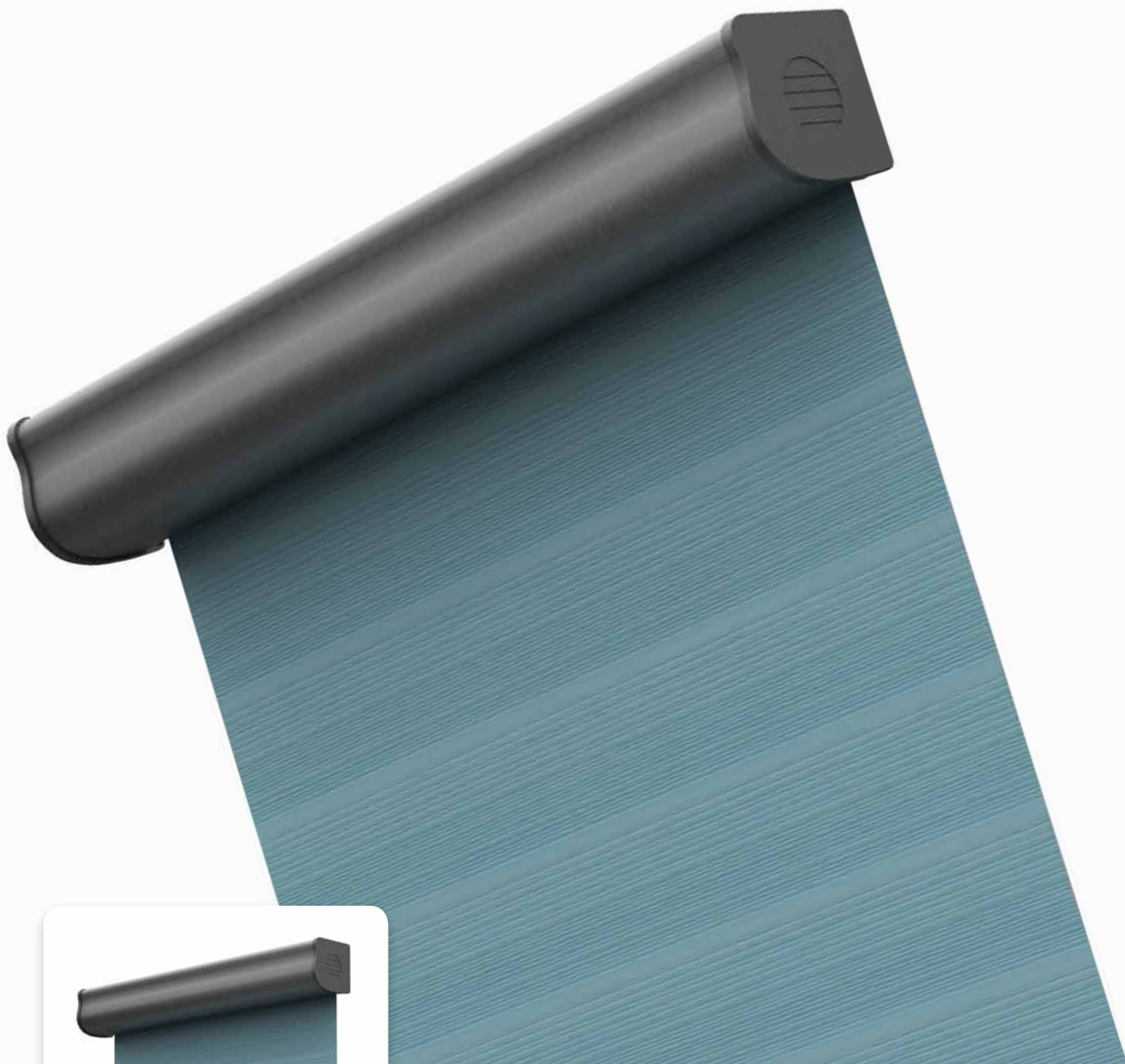
	For assembly of side board R+L	For fixation of the upper profile	For fixation of the holder of the chain
screw	3 x 12	3 x 20 / 3 x 25*	3,9 x 16
drill Ø	2 mm	----	3 mm

Inspection:

before assembly we recommend inspecting all parts after the delivery of the goods to prevent any problems. Any defects or comments concerning the assembly or blinds must be notified to the manufacturer.



Notification: To open the window to 90°, the distance between the frame and the window wing and the reveal must be a minimum of 4 cm.

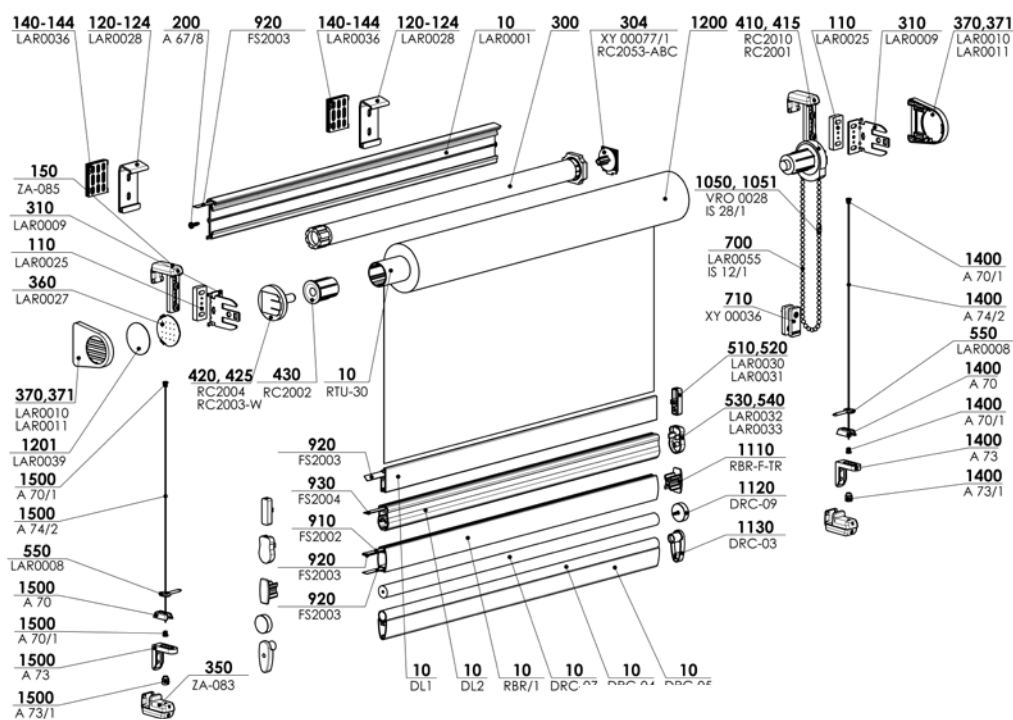


- ▲ Modern and design element of interior,
- ▲ wide range of fabrics including day-night ones,
- ▲ variability of design (3 types of cover boxes, only brackets or mounting brackets),
- ▲ possibility of manual or engine control,
- ▲ choice of placing more roller blinds in one box.
- ▲ Larra SCREEN - Soltis86, Soltis92, SCR3005

ISOTRA *Quality*

Interior roller blind LARRA ECO 30/ LARRA 30, LARRA ECO/ LARRA 30 with assembly profile

Basic product specification



LAR30, LAR30mp 2-01427-XXXX-D

Specification

Tube 30mm – max. width of roller blind 2200mm

Control: metal chain 4,5mm, motor ISOTRA BASIC, motor Somfy WT

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant.

For the day-night version, the chain is supplied in an “endless”, so called loop design.

Plastic chain: colour: white or gray

Metal chain: chrome / satin / black nickel

	Assembly holder	Assembly profile	Lower profile			Lower profile day-night*		Guidance	
Commercial name	LAR0009+LAR0025+LAR0010/LAR0011	LAR0001	DL1	DL2	RBR/1	DRC05+DRC04	DRC07	L+U	L+K
Dimension (mm)	62x54x26	51x17	30x8	30x18	30x15	36x14	Ø15		
Material	metal + plastic + plastic	Al	Al	Al	Al	Al+Al	Al		
Color	Standard: RAL 9003 white	Extra Charges: elox stainless satine							

* for fabric Rhodos - only bottom rail DRC07

Covers for profile RBR-F-A-43 in transparent color. Profile is possible to cover by fabric. Due to the development of the product, it is possible to adapt the product.

Standard dimensions

Weight (g/m ²)	Fabric Thickness (mm)	Width (mm)		Height (mm)	
		min.*	max.	min.	max.
up to 170	up to 0,3	300/600	2200	300	4600
	up to 0,5	300/600	2200	300	3500
	up to 0,7	300/600	2200	300	2400
up to 260	up to 0,3	300/600	2200	300	4600
	up to 0,5	300/600	2200	300	3500
	up to 0,7	300/600	2200	300	2400
up to 365	up to 0,5	300/600	2200	300	3500
over 365	up to 0,5	300/600	2200	300	3500
Fabric day-night					
Corfu		300/600	2200	300	2600
Cyprus		300/600	2200	300	2300
Parga		300/600	2200	300	4600
Rhodos		300/600	2200	300	3600
Zakynthos		300/600	2200	300	2800

* chain/motor

LARRA ECO 30/ LARRA 30, LARRA ECO/ LARRA 30 with assembly profile (2-01427-XXXX)

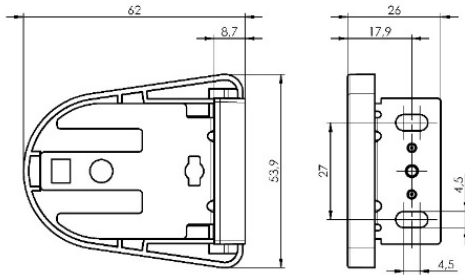
Position	Item name	Abbreviation	Drawing number
10	Mounting profile	LAR0001	7-303106-XXXX
10	Winding roll, Ø 30 mm - self-adhesive	RTU-30	6-010805-0030
10	Bottom rail - flat	DL1	7-303152-XXXX
10	Bottom rail - wave	DL2	7-303174-XXXX
10	Bottom rail AL - fabric cover white/elox	RBR/1 XXXX	7-302578-XXXX
10	Bottom rail day-night white/elox - round	DRC-07-W/A	6-015471-XXXX
10	Tube bottom day-night white/elox	DRC-04-W/A	6-011135-XXXX
10	Bottom rail day-night white/elox	DRC-05-W/A	6-011134-XXXX
110	Pad	LAR0025	3-03146-XXXX
120-124	Wall bracket - mounting profile - S - complete	LAR0028	2-01508-XXXX
140-144	Pad under the holder	LAR0036	3-03345-0000
150	Top holder white*	ZA-085	6-019290-0000
200	Screw 3,5x13, DIN 7504 M, Zn	A 67/8	6-003146-0000
300	Motors (ISOTRA BASIC)		see table Motors
300	Motors (SOMFY)		see table Motors
302	Holder of motor Somfy 28 WT	RC2053-ABC	6-015170-0002
310	Holder COULISSE - ejection 33 mm	LAR0009	3-03111-XXXX
350	Tension angle 25 mm, white*	ZA-083	6-017593-0001
360	Cover - side cap - S	LAR0027	3-03148-XXXX
370	Side caps - holder - logo - S	LAR0010	3-03128-XXXX
371	Side caps - holder - logo hole - S	LAR0011	3-03129-XXXX
410	Metallic control mechanism 28	RC2010	6-014565-XXXX
415	Plastic control mechanism 28	RC2001	6-014545-XXXX
420	Adjustable pin + carrier white/grey/black - set	RC2004	6-014457-XXXX
425	Fixed pin	RC2003	6-014806-XXXX
430	Pipe end piece 28 white/black/grey	RC2002	6-014546-XXXX
510	Plug - bottom profile - square	LAR0030	3-03153-XXXX
520	Plug - bottom profile - square - wire	LAR0031	3-03154-XXXX
530	Plug - bottom profile - wave	LAR0032	3-03175-XXXX
540	Plug - bottom profile - wave - wire	LAR0033	3-03174-XXXX
550	Bottom rail cover - eye	LAR0008	3-00024-0000
700	Endless chain thick metal	LAR0055/02	2-00608-0002
700	Chain thick (4,5x6mm) detachable	IS 12/1	3-01514-XXXX
700	Endless chain thick	IS 12/51	2-00608-0003
710	Fixed pulley	XY 00036	2-01045-0000
910	Tape for profile RBR 7x0,4 mm	FS2002	6-017814-0000
920	Ensuring ribbon 8x0,4mm	FS2003	6-017815-0000
930	Tape 10x0.8 with double-sided adhesive tape	FS2004	6-017816-0000
1050	Chain connector 4,5 mm metal	VRO 0028	6-008792-XXXX
1051	Chain connector assembly	IS 28/1	2/01039-XXXX
1110	Cover for bottom rail RBR	RBE-F-TR	6-012454-00TR
1120	Cover round - day-night white/grey	DRC-09-W/A	6-015472-XXXX
1130	Cover set - day-night	DRC-03	6-011136-XXXX
1200	Fabric		see Fabric swatch
1201	Fabric to logo in the side cap	LAR0039	3-03344-0000
1400	Guidance - wire/guiding channel LARRA RIGHT		see Guidance
1500	Guidance - wire/guiding channel LARRA LEFT		see Guidance
1400,1500	Clamping screw	A 70/1	6-011204-PU22
1400,1500	Steel wire 0,9 mm	A 74/2	6-000181-0000
1400,1500	Spacer - fixed	A 70	3-00129-0000
1400,1500	Console angle	A 73	6-015710-0000
1400,1500	Clamping screw	A 73/1	6-015709-PU22

*Without mounting profile, cannot be used with D/N fabric

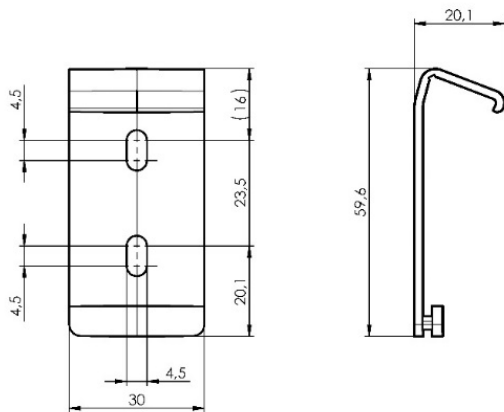
Interior roller blind LARRA ECO 30/ LARRA 30, LARRA ECO/ LARRA 30 with assembly profile

Holders

Assembly holder



Wall holder - Larra 30 with assembly profile LAR0028 (2-01508)



Holder number for roller blind with assembly profile

Roller blind width (mm)	Holder numbers (pc)
0 - 900	2
901 - 1600	3
1601 - 2200	4

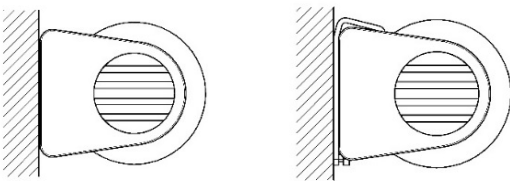
The axis of the edge holder must be 40-50 mm from the edge of the roller blind.

Mounting

Wall mounting

Larra 30

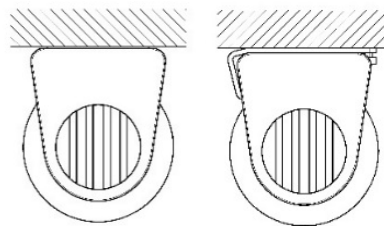
Larra 30 with assembly profile



Ceiling mounting

Larra 30

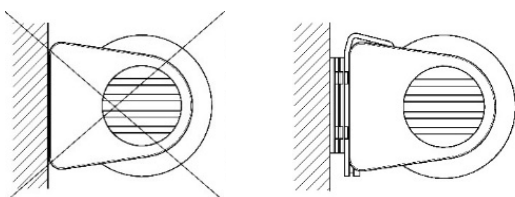
Larra 30 with assembly profile



Wall mounting - fabric day-night

Larra 30

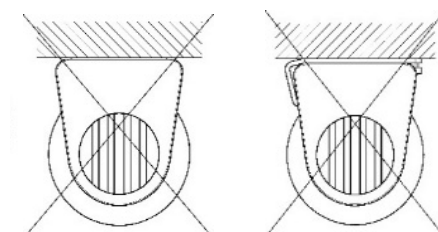
Larra 30 with assembly profile



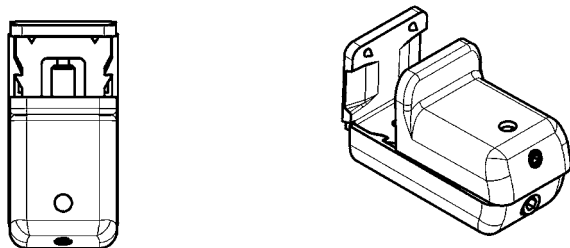
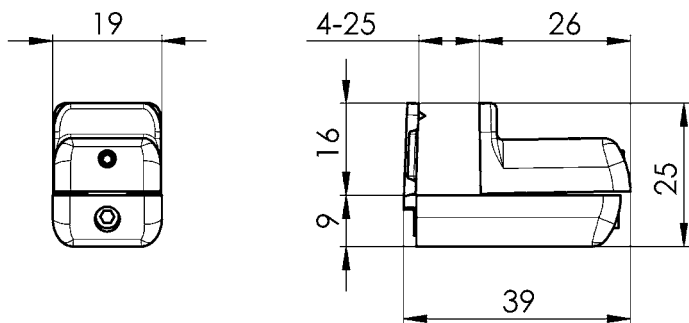
Ceiling mounting - fabric day-night

Larra 30

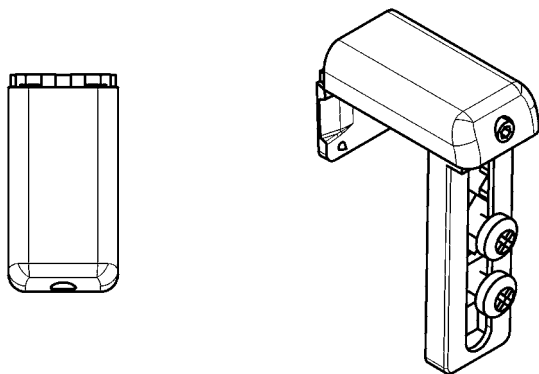
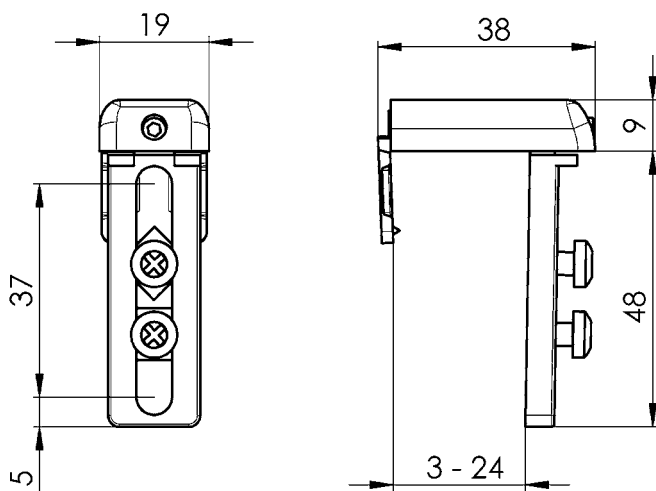
Larra 30 with assembly profile



Interior roller blind LARRA ECO 30/ LARRA 30, LARRA ECO/ LARRA 30 with assembly profile
Tension angle ZA-083 (6-017596-0001)



Top holder ZA-085 (6-019290-0000)

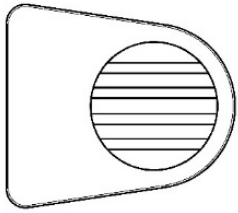


Interior roller blind LARRA ECO 30/ LARRA 30, LARRA ECO/ LARRA 30 with assembly profile

Sidewalls

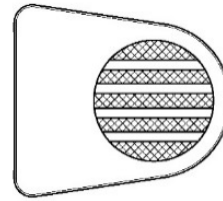
Sidewall type 1 (BT1)

- One-piece sidewall with logo molded in plastic



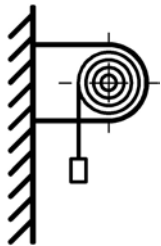
Sidewall type 2 (BT2)

- Multi-piece sidewall with the logo formed by the sidewall and the fabric (xxx), which is the same as roller blind fabric

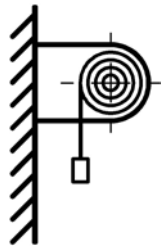


Assembly

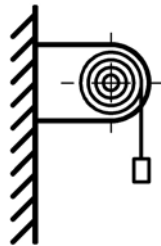
winding to the window "A" (standard)



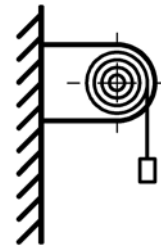
winding to the window "AE" (exterior lighter)



winding from the window "B"



winding from the window "BE" (exterior lighter)



winding day-night "C"



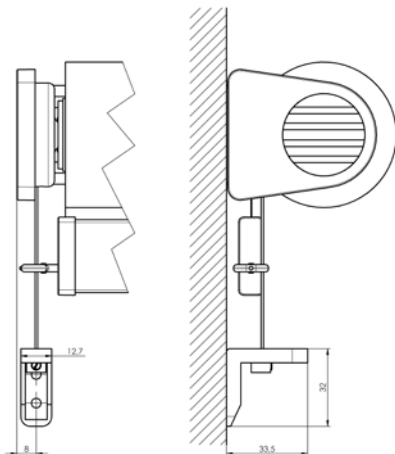
*wire guidance is not possible

*wire guidance is not possible

*wire guidance is not possible
*only for LAR30mp together with wall mounting

Wire guidance

Wire guidance with wire holder for wall mounting (L+U)



Steel wire 0,9mm

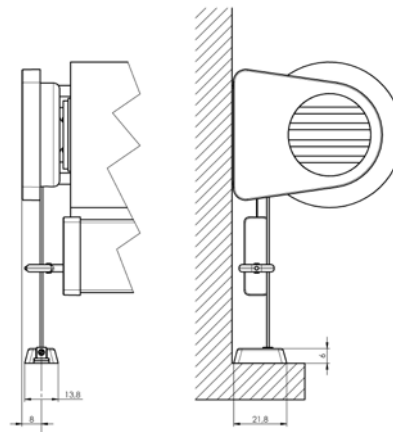
Stainless steel end pins

Eye for wire guidance - transparent plastic

Wall mounting bracket - transparent plastic

There can be only used the bottom profiles DL1 or DL2 for wire guidance.

Wire guidance with wire holder for floor mounting (L+K)



Steel wire 0,9mm

Stainless steel end pins

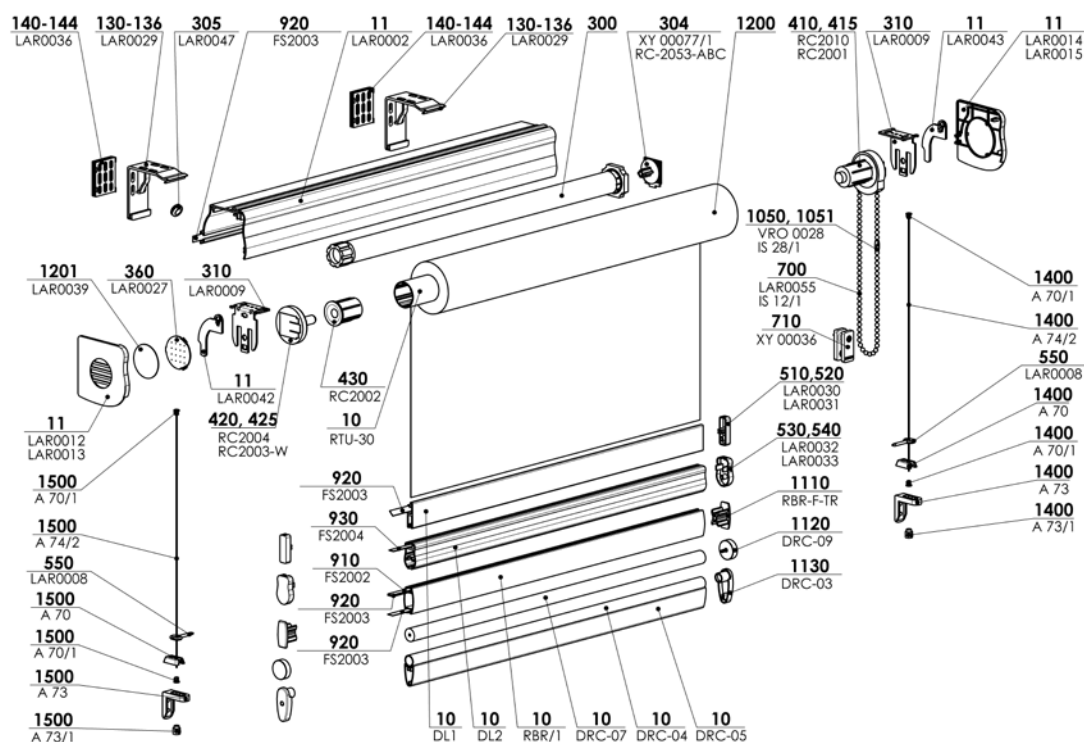
Eye for wire guidance - transparent plastic

Wall mounting bracket - transparent plastic

There can be only used the bottom profiles DL1 or DL2 for wire guidance.

Interior roller blind LARRA ECO/ LARRA box semi cassette

Basic product specification



LARRA box semi cassette 2-01427-XXXX-D

Specification

Tube 30mm – max. width of roller blind 2200mm

Control: plastit chain 4,5 mm, metal chain 4,5mm, motor ISOTRA BASIC, motor Somfy WT

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant.

For the day-night version, the chain is supplied in an “endless”, so called loop design.

Plastic chain: colour: white or gray

Metal chain: chrome / satin / black nickel

	Profile semi cassette	Lower profile			Lower profile day-night*		Guidance		
Commercial name	LAR0002	DL1	DL2	RBR/1	DRC05+DRC04	DRC07	L+U	L+K	
Dimension (mm)	73x57	30x8	30x18	30x15	36x14	Ø15			
Material	Al	Al	Al	Al	Al+Al	Al			
Color	Standard: RAL 9003 white	Extra Charges: elox stainless satine							

* for fabric Rhodos - only bottom rail DRC07

Covers for profile RBR-F-A-43 in transparent color. Profile is possible to cover by fabric. Due to the development of the product, it is possible to adapt the product.

Standard dimensions

Fabric	Thickness (mm)	Width (mm)		Height (mm)	
		min.*	max.	min.	max.
up to 170	up to 0,3	300/600	2200	300	4600
	up to 0,5	300/600	2200	300	3500
	up to 0,7	300/600	2200	300	2400
up to 260	up to 0,3	300/600	2200	300	4600
	up to 0,5	300/600	2200	300	3500
	up to 0,7	300/600	2200	300	2400
up to 365	up to 0,5	300/600	2200	300	3500
over 365	up to 0,5	300/600	2200	300	3500
Fabric day-night					
Corfu		300/600	2200	300	2600
Cyprus		300/600	2200	300	2300
Parga		300/600	2200	300	4600
Rhodos		300/600	2200	300	3600
Zakynthos		300/600	2200	300	2800

* chain/motor

Interior roller blind LARRA ECO/ LARRA box semi cassette

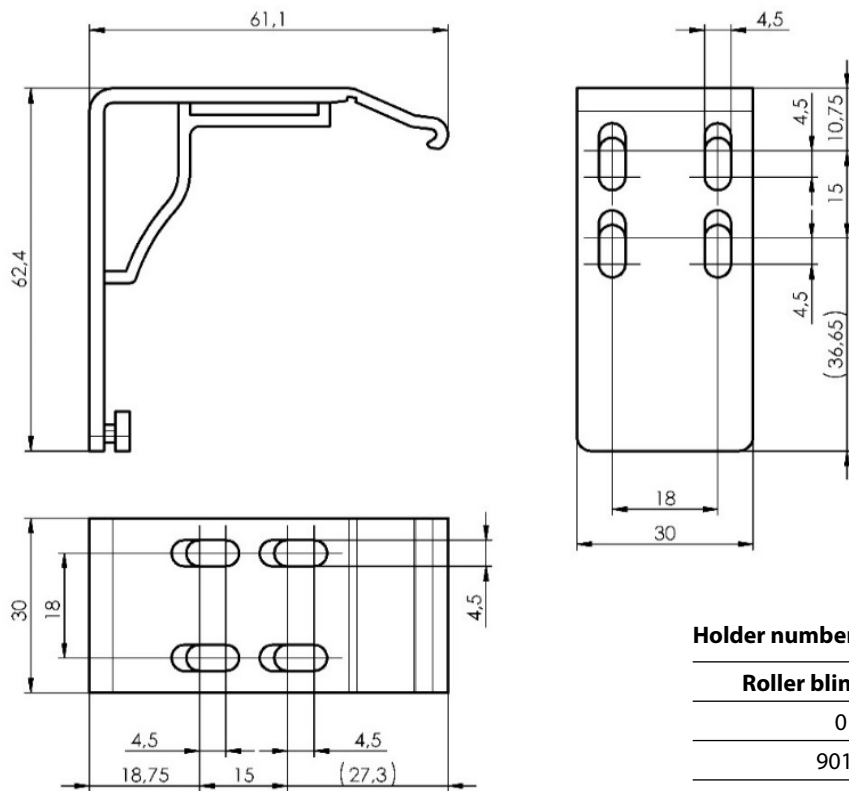
LARRA ECO/ LARRA box semi cassette (2-01427-XXXX)

Position	Item name	Abbreviation	Drawing number
10	Winding roll, Ø 30 mm - self-adhesive	RTU-30	6-010805-0030
10	Bottom rail - flat	DL1	7-303152-XXXX
10	Bottom rail - wave	DL2	7-303174-XXXX
10	Bottom rail AL - fabric cover white/elix	RBR/1 XXXX	7-302578-XXXX
10	Bottom rail day-night white/elix - round	DRC-07-W/A	6-015471-XXXX
10	Tube bottom day-night white/elix	DRC-04-W/A	6-011135-XXXX
10	Bottom rail day-night white/elix	DRC-05-W/A	6-011134-XXXX
11	Profile Semicassette - S	LAR0002	7-303107-XXXX
11	Cover L - metal holder	LAR0042	3-03144-XXXX
11	Cover P - metal holder	LAR0043	3-03145-XXXX
11	Side caps L - Semi cassette - logo - S	LAR0012	3-03130-XXXX
11	Side caps L - Semi cassette - logo hole - S	LAR0013	3-03131-XXXX
11	Side caps P - Semi cassette - logo - S	LAR0014	3-03132-XXXX
11	Side caps P - Semi cassette - logo hole - S	LAR0015	3-03133-XXXX
130-136	Wall bracket - cassette - S - complete	LAR0029	2-01509-XXXX
140-144	Pad under the holder	LAR0036	3-03345-0000
300	Motors (ISOTRA BASIC)		see table Motors
300	Motors (SOMFY)		see table Motors
302	Holder of motor Somfy 28 WT	RC2053-ABC	6-015170-0002
305	Cable grommet	LAR0047	6-015748-0000
310	Holder COULISSE - ejection 33 mm	LAR0009	3-03111-XXXX
360	Cover - side cap - S	LAR0027	3-03148-XXXX
410	Metallic control mechanism 28	RC2010	6-014565-XXXX
415	Plastic control mechanism 28	RC2001	6-014545-XXXX
420	Adjustable pin + carrier white/grey/black - SET	RC2004	6-014457-XXXX
425	Fixed pin	RC2003	6-014806-XXXX
430	Pipe end piece 28 white/black/grey	RC2002	6-014546-XXXX
510	Plug - bottom profile - square	LAR0030	3-03153-XXXX
520	Plug - bottom profile - square - wire	LAR0031	3-03154-XXXX
530	Plug - bottom profile - wave	LAR0032	3-03175-XXXX
540	Plug - bottom profile - wave - wire	LAR0033	3-03174-XXXX
550	Bottom rail cover - eye	LAR0008	3-00024-0000
700	Endless chain thick metal	LAR0055/02	2-00608-0002
700	Chain thick (4,5x6mm) detachable	IS 12/1	3-01514-XXXX
700	Endless chain thick	IS 12/51	2-00608-0003
710	Fixed pulley	XY 00036	2-01045-0000
910	Tape for profile RBR 7x0,4 mm	FS2002	6-017814-0000
920	Ensuring ribbon 8x0,4 mm	FS2003	6-017815-0000
930	Tape 10x0.8 with double-sided adhesive tape	FS2004	6-017816-0000
1050	Chain connector 4,5 mm metal	VRO 0028	6-008792-XXXX
1051	Chain connector assembly	IS 28/1	2/01039-XXXX
1110	Cover for bottom rail RBR	RBE-F-TR	6-012454-00TR
1120	Cover round - day-night white/grey	DRC-09-W/A	6-015472-XXXX
1130	Cover set - day-night	DRC-03	6-011136-XXXX
1200	Fabric		see Fabric swatch
1201	Fabric to logo in the side cap	LAR0039	3-03344-0000
1400	Guidance - wire/guiding channel LARRA RIGHT		see Guidance
1500	Guidance - wire/guiding channel LARRA LEFT		see Guidance
1400,1500	Clamping screw	A 70/1	6-011204-PU22
1400,1500	Steel wire 0,9 mm	A 74/2	6-000181-0000
1400,1500	Spacer - fixed	A 70	3-00129-0000
1400,1500	Console angle	A 73	6-015710-0000
1400,1500	Clamping screw	A 73/1	6-015709-PU22

Interior roller blind LARRA ECO/ LARRA box semi cassette

Holders

Wall holder - Larra semi cassette LAR0029 (2-01509)



Holder number for roller blind with assembly profile

Roller blind width (mm)	Holder numbers (pc)
0 - 900	2
901 - 1600	3
1601 - 2200	4

The axis of the edge holder must be 40-50 mm from the edge of the roller blind.

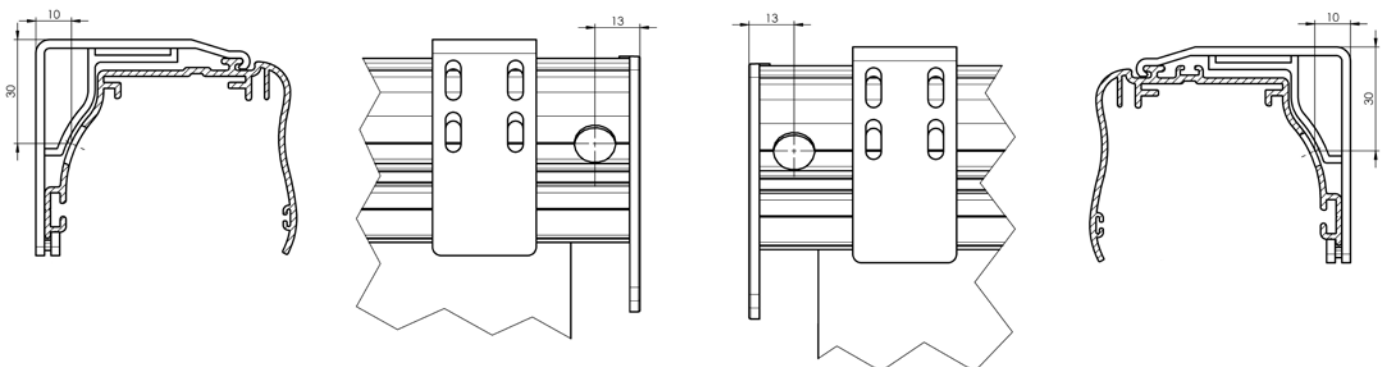
Control

Control left (L)

The chain or cable outlets are placed on the left from the interior
Cable outlet Ø8 left

Control right (P)

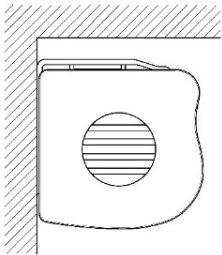
The chain or cable outlets are placed on the right from the interior
Cable outlet Ø8 right



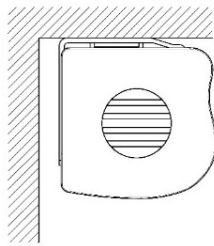
Interior roller blind LARRA ECO/ LARRA box semi cassette

Mounting

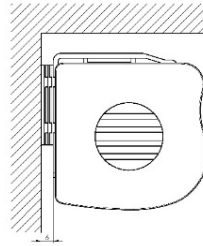
Wall mounting



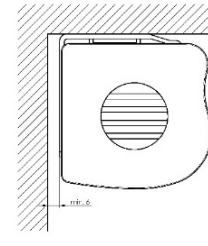
Ceiling mounting



Wall mounting fabric day-night



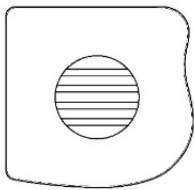
Ceiling mounting fabric day-night



Sidewalls

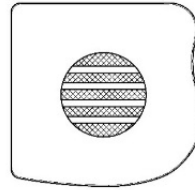
Sidewall type 1 (BT1)

- One-piece sidewall with logo molded in plastic



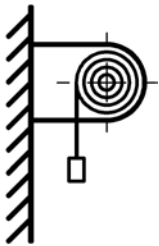
Sidewall type 2 (BT2)

Multi-piece sidewall with the logo formed by the sidewall and the fabric (xxx), which is the same as roller blind fabric

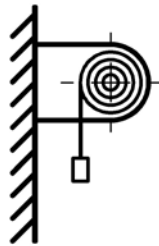


Assembly

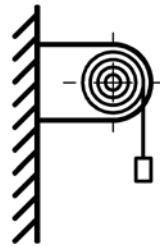
winding to the window "A" (standard)



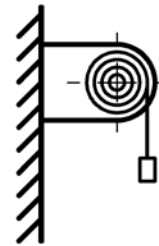
winding to the window "AE" (exterior lighter)



winding from the window "B"



winding from the window "BE" (exterior lighter)



winding day-night "C"



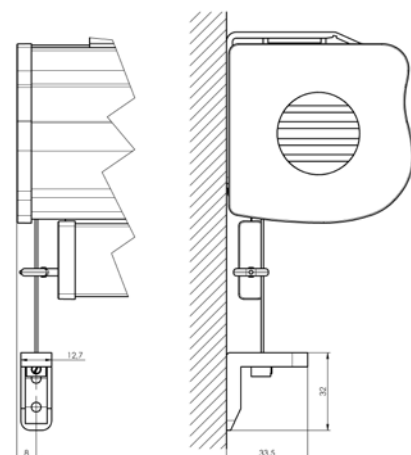
*wire guidance is not possible

*wire guidance is not possible

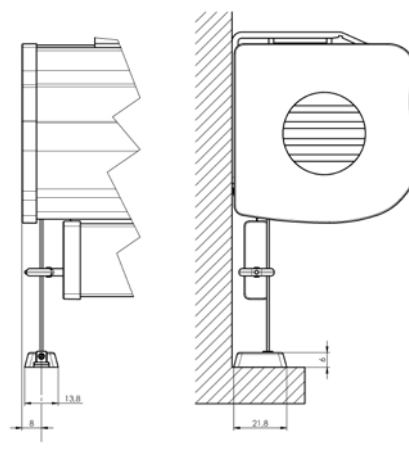
*wire guidance is not possible

Wire guidance

Wire guidance with wire holder for wall mounting (L+U)



Wire guidance with wire holder for floor mounting (L+K)



Steel wire 0,9mm

Stainless steel end pins

Eye for wire guidance - transparent plastic

Wall mounting bracket - transparent plastic

There can be only used the bottom profiles DL1 or DL2 for wire guidance.

Steel wire 0,9mm

Stainless steel end pins

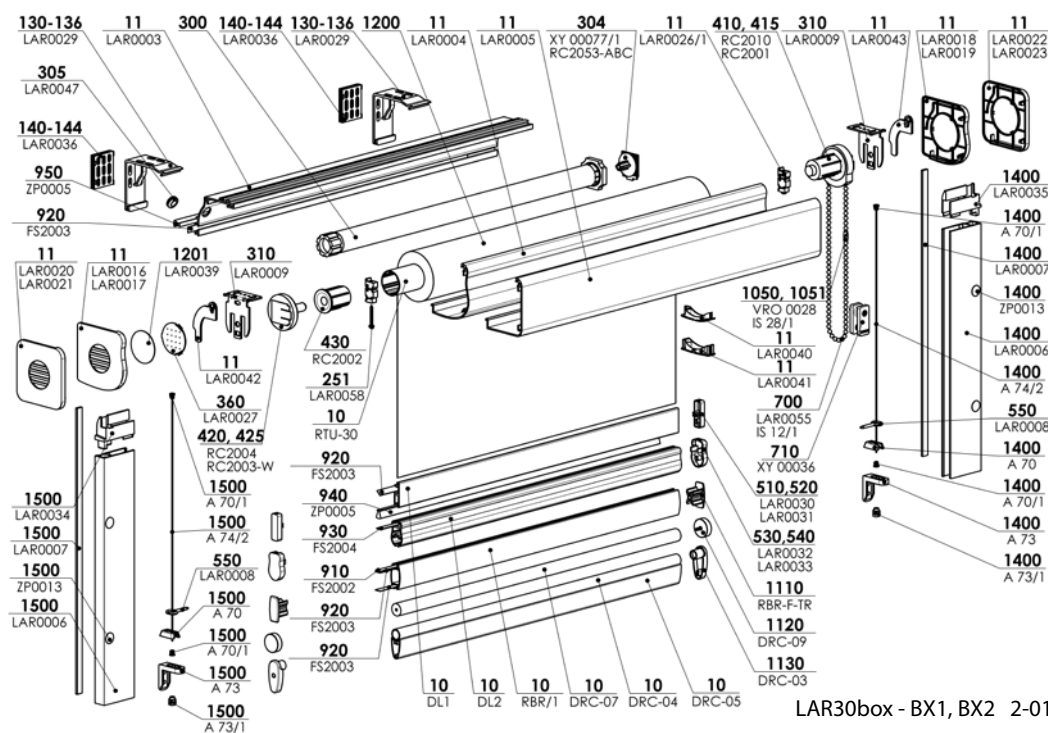
Eye for wire guidance - transparent plastic

Wall mounting bracket - transparent plastic

There can be only used the bottom profiles DL1 or DL2 for wire guidance.

Interior roller blind LARRA ECO/ LARRA box

Basic product specification



LAR30box - BX1, BX2 2-01427-XXXX-D

Specification

Tube 30mm – max. width of roller blind 2200mm

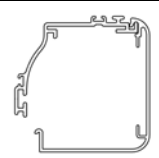
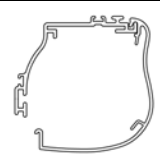




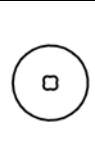



Control: plastit chain 4,5 mm, metal chain 4,5mm, motor ISOTRA BASIC, motor Somfy WT

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant.

For the day-night version, the chain is supplied in an “endless”, so called loop design.

Plastic chain: colour: white or gray

Metal chain: chrome / satin / black nickel

	Box		Lower profile			Lower profile day-night*		Guidance		
Commercial name	LAR0003+LAR0005	LAR0003+LAR0004	DL1	DL2	RBR/1	DRC05+DRC04	DRC07	L+U	L+K	VL
Dimension (mm)	72x71	73x72	30x8	30x18	30x15	36x14	Ø15			52x15
Material	Al	Al	Al	Al	Al	Al+Al	Al			Al
										
Color	Standard: RAL 9003 white		Extra Charges: elox stainless satine							

* for fabric Rhodos - only bottom rail DRC07

Covers for profile RBR-F-A-43 in transparent color. Profile is possible to cover by fabric. Due to the development of the product, it is possible to adapt the product.

Standard dimensions

Fabric	Thickness (mm)	Width (mm)		Height (mm)	
		min.*	max.	min.	max.
up to 170	up to 0,3	300/600	2200	300	4600
	up to 0,5	300/600	2200	300	3500
	up to 0,7	300/600	2200	300	2400
up to 260	up to 0,3	300/600	2200	300	4600
	up to 0,5	300/600	2200	300	3500
	up to 0,7	300/600	2200	300	2400
up to 365	up to 0,5	300/600	2200	300	3500
over 365	up to 0,5	300/600	2200	300	3500
Fabric day-night					
Corfu		300/600	2200	300	2600
Cyprus		300/600	2200	300	2300
Parga		300/600	2200	300	4600
Rhodos		300/600	2200	300	3600
Zakynthos		300/600	2200	300	2800

* chain/motor

Interior roller blind LARRA ECO/ LARRA box

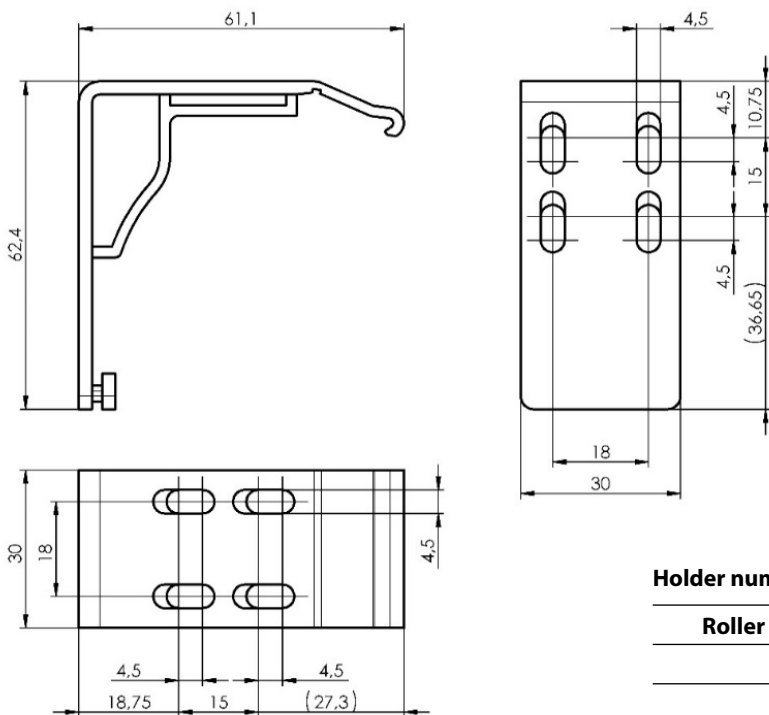
LARRA ECO/ LARRA box (2-01427-XXXX)

Position	Item name	Abbreviation	Drawing number
10	Winding roll, Ø 30 mm - self-adhesive	RTU-30	6-010805-0030
10	Bottom rail - flat	DL1	7-303152-XXXX
10	Bottom rail - wave	DL2	7-303174-XXXX
10	Bottom rail AL - fabric cover white/elox	RBR/1 XXXX	7-302578-XXXX
10	Bottom rail day-night white/elox - round	DRC-07-W/A	6-015471-XXXX
10	Tube bottom day-night white/elox	DRC-04-W/A	6-011135-XXXX
10	Bottom rail day-night white/elox	DRC-05-W/A	6-011134-XXXX
11	Profile cassette -back - S	LAR0003	7-303108-XXXX
11	Profile cassette -front wave - S	LAR0004	7-303109-XXXX
11	Profile cassette -front edge - S	LAR0005	7-303110-XXXX
11	Fuse - profile front	LAR0026/1 9003/9006	3-03596-9003/9006
11	Side caps L - front wave - logo - S	LAR0016	3-03134-XXXX
11	Side caps L - front wave - logo hole - S	LAR0017	3-03135-XXXX
11	Chain guidance - front wave - S	LAR0040	3-03142-XXXX
11	Side caps L - front edge - logo - S	LAR0020	3-03138-XXXX
11	Side caps L - front edge - logo hole - S	LAR0021	3-03139-XXXX
11	Side caps P - front edge - logo - S	LAR0022	3-03140-XXXX
11	Side caps P - front edge - logo hole - S	LAR0023	3-03141-XXXX
11	Side caps P - front wave - logo - S	LAR0018	3-03136-XXXX
11	Side caps P - front wave - logo hole - S	LAR0019	3-03137-XXXX
11	Chain guidance - front edge - S	LAR0041	3-03143-XXXX
11	Cover L - metal holder	LAR0042	3-03144-XXXX
11	Cover P - metal holder	LAR0043	3-03145-XXXX
11	Fuse - profile front	LAR0026/1 9003/9006	3-03596-9003/9006
11/251	Screw ST2,9x25, A2 Torx, ISO 14585 C	LAR0058	6-016873-0000
130-136	Wall bracket - cassette - S - complete	LAR0029	2-01509-XXXX
140-144	Pad under the holder	LAR0036	3-03345-0000
300	Motors (ISOTRA BASIC)		see table Motors
300	Motors (SOMFY)		see table Motors
302	Holder of motor Somfy 28 WT	RC2053-ABC	6-015170-0002
305	Cable grommet	LAR0047	6-015748-0000
310	Holder COULISSE - ejection 33 mm	LAR0009	3-03111-XXXX
360	Cover - side cap - S	LAR0027	3-03148-XXXX
410	Metallic control mechanism 28	RC2010	6-014565-XXXX
415	Plastic control mechanism 28	RC2001	6-014545-XXXX
420	Adjustable pin + carrier white/grey/black - SET	RC2004	6-014457-XXXX
425	Fixed pin	RC2003	6-014806-XXXX
430	Pipe end piece 28 white/black/grey	RC2002	6-014546-XXXX
510	Plug - bottom profile - square	LAR0030	3-03153-XXXX
520	Plug - bottom profile - square - wire	LAR0031	3-03154-XXXX
530	Plug - bottom profile - wave	LAR0032	3-03175-XXXX
540	Plug - bottom profile - wave - wire	LAR0033	3-03174-XXXX
550	Bottom rail cover - eye	LAR0008	3-00024-0000
700	Endless chain thick metal	LAR0055/02	2-00608-0002
700	Chain thick (4,5x6mm) detachable	IS 12/1	3-01514-XXXX
700	Endless chain thick	IS 12/51	2-00608-0003
710	Fixed pulley	XY 00036	2-01045-0000
910	Tape for profile RBR 7x0,4 mm	FS2002	6-017814-0000
920	Ensuring ribbon 8x0,4 mm	FS2003	6-017815-0000
930	Tape 10x0.8 with double-sided adhesive tape	FS2004	6-017816-0000
940,95	Brush 4.8 x 7 mm black	ZP0005	6-009219-0000
1050	Chain connector 4,5 mm metal	VRO 0028	6-008792-XXXX

Position	Item name	Abbreviation	Drawing number
1051	Chain connector assembly	IS 28/1	2/01039-XXXX
1110	Cover for bottom rail RBR	RBE-F-TR	6-012454-00TR
1120	Cover round - day-night white/grey	DRC-09-W/A	6-015472-XXXX
1130	Cover set - day-night	DRC-03	6-011136-XXXX
1200	Fabric		see Fabric swatch
1201	Fabric to logo in the side cap	LAR0039	3-03344-0000
1400	Guidance - wire/guiding channel LARRA RIGHT		see Guidance
1500	Guidance - wire/guiding channel LARRA LEFT		see Guidance
1400	Plug P - Blackout - upper	LAR0035	3-03157-XXXX
1500	Plug L - Blackout - upper	LAR0034	3-03156-XXXX
1400,1500	Microprofile self-adhesive 2,5x8mm, rectangular	LAR0007	6-015682-0000
1400,1500	Profile Blackout	LAR0006	7-303155-XXXX
1400,1500	Cover lids 10mm	ZP0013	6-002066-XXXX
1400,1500	Clamping screw	A 70/1	6-011204-PU22
1400,1500	Steel wire 0,9 mm	A 74/2	6-000181-0000
1400,1500	Spacer - fixed	A 70	3-00129-0000
1400,1500	Console angle	A 73	6-015710-0000
1400,1500	Clamping screw	A 73/1	6-015709-PU22

Holders

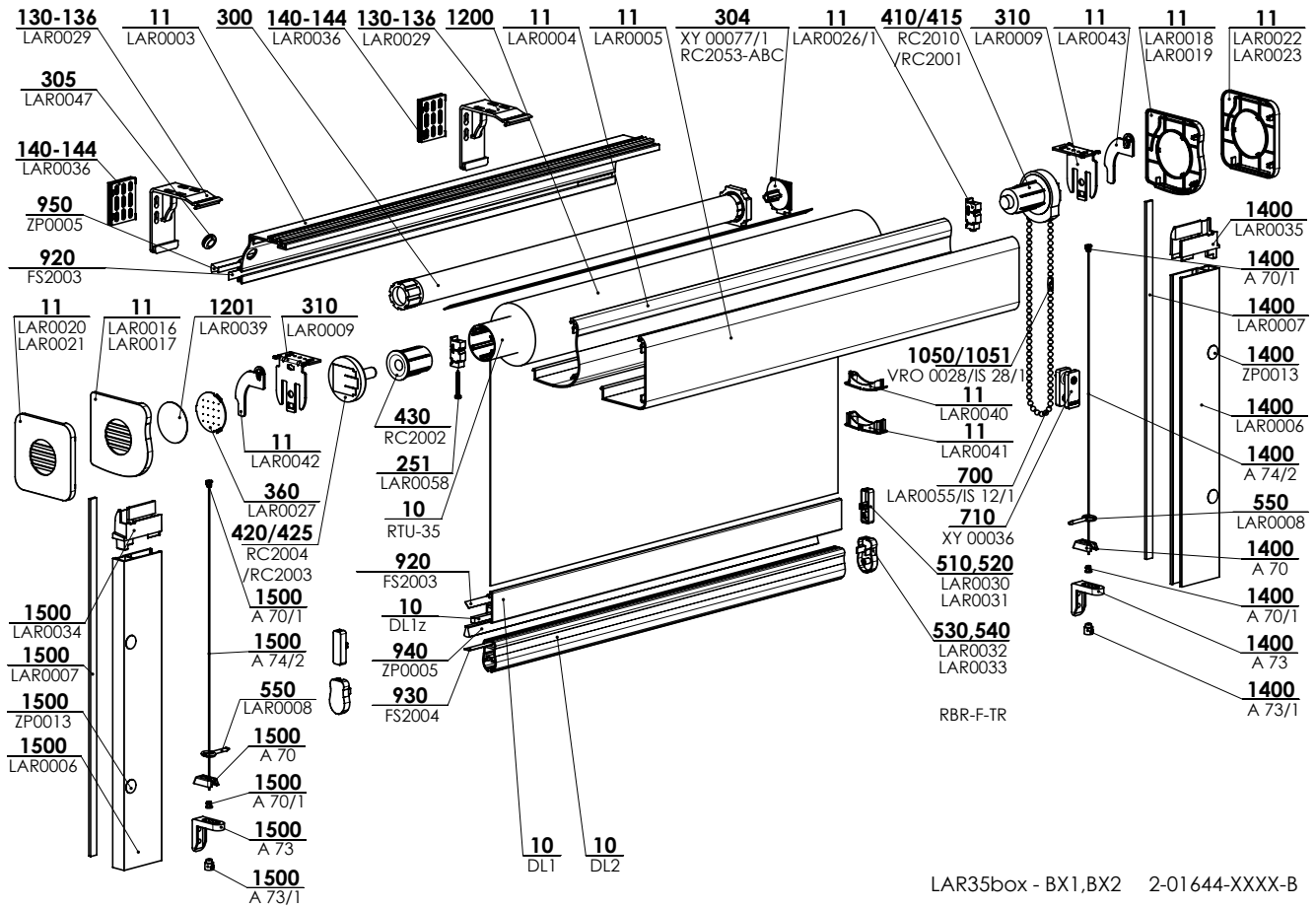
Wall holder - Larra box LAR0029 (2-01509)



Holder number for roller blind with assembly profile

Roller blind width (mm)	Holder numbers (pc)
0 - 900	2
901 - 1600	3
1601 - 2200	4

The axis of the edge holder must be 40-50 mm from the edge of the roller blind.



Specification

Tube 35mm – max. width of roller blind 2200mm

Control: plastit chain 4,5 mm, metal chain 4,5mm, motor ISOTRA BASIC, motor Somfy WT

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant.

Plastic chain: colour: white or gray

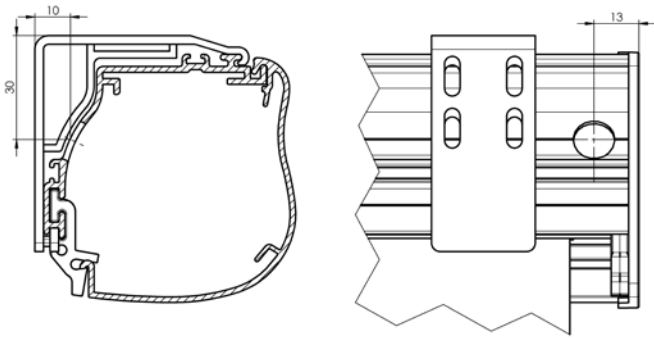
Metal chain: chrome / satin / black nickel

	Assembly holder	Assembly profile	Profile semi cassette	Box		Lower profile	Guidance	
Commercial name	LAR0009+LAR0025+LAR0010/LAR0011	LAR0001	LAR0002	LAR0003+LAR0004	LAR0003+LAR0005	DL2	L+U	L+K
Dimension (mm)	62x54x26	51x17	73x57	73x72	72x71	30x18		
Material	KOV+Plast+Plast	Al	Al	Al	A	Al		
Color	Standard: RAL 9003 white	Extra Charges: elox stainless satine						

Control

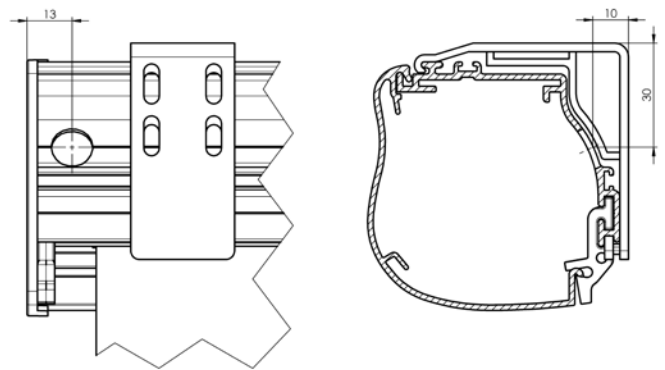
Control left (L)

The chain or cable outlets are placed on the left from the interior
Cable outlet Ø8 left



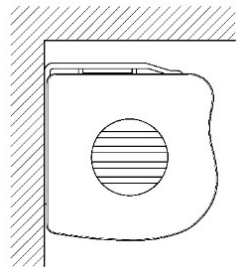
Control right (R)

The chain or cable outlets are placed on the right from the interior
Cable outlet Ø8 right

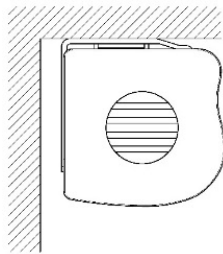


Mounting

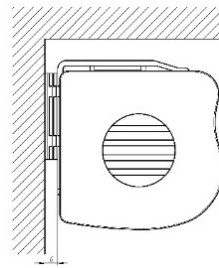
Wall mounting



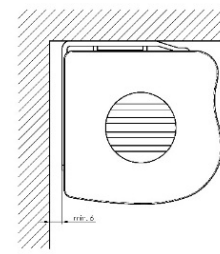
Ceiling mounting



Wall mounting fabric day-night



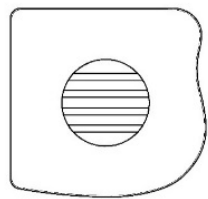
Ceiling mounting fabric day-night



Sidewalls

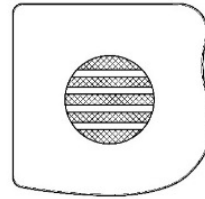
Sidewall type 1 (BT1)

- One-piece sidewall with logo molded in plastic



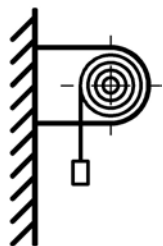
Sidewall type 2 (BT2)

- Multi-piece sidewall with the logo formed by the sidewall and the fabric (xxx), which is the same as roller blind fabric

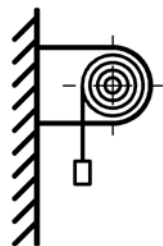


Assembly

winding to the window "A" (standard)



winding to the window "AE" (exterior lighter)



winding day-night "C"

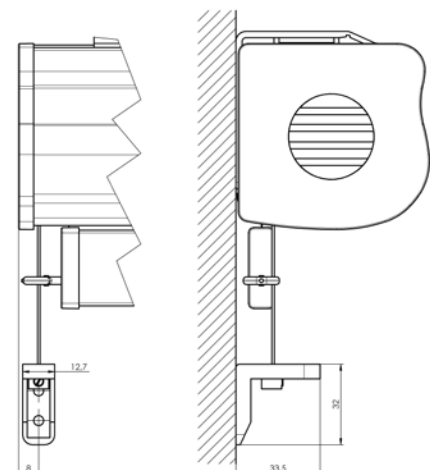


*wire guidance is not possible
*guiding channels are not possible

Interior roller blind Larra Eco/Larra box, Larra Screen Eco, Larra Screen

Wire guidance

Wire guidance with wire holder for wall mounting (L+U)



Steel wire 0,9mm

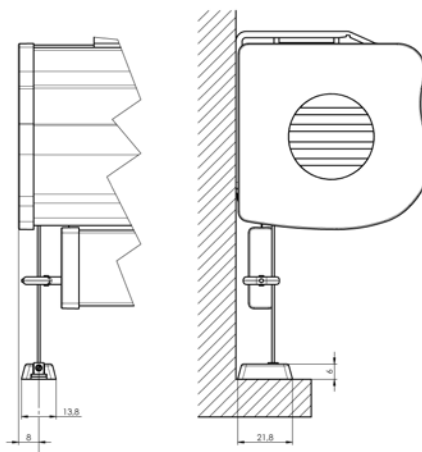
Stainless steel end pins

Eye for wire guidance - transparent plastic

Wall mounting bracket - transparent plastic

There can be only used the bottom profiles DL1 or DL2 for wire guidance.

Wire guidance with wire holder for floor mounting (L+K)



Steel wire 0,9mm

Stainless steel end pins

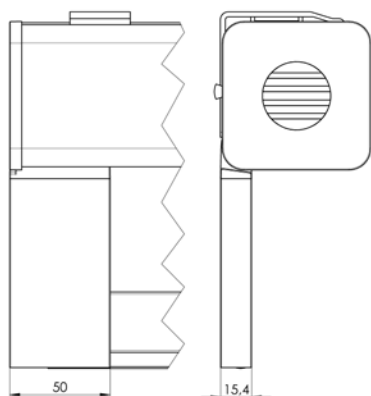
Eye for wire guidance - transparent plastic

Wall mounting bracket - transparent plastic

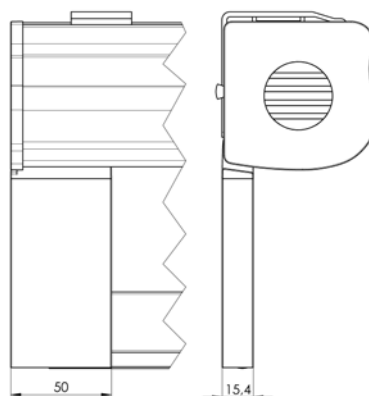
There can be only used the bottom profiles DL1 or DL2 for wire guidance.

Guiding channel guidance

One-sided guiding channel for box BX1

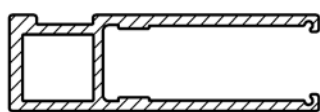


One-sided guiding channel for box BX2

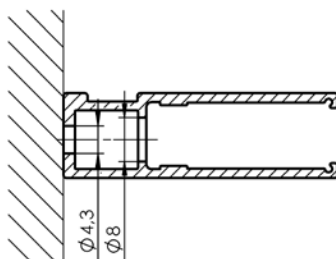


Guiding channel drilling options

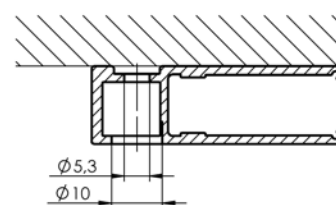
Non-drilled guiding channel (VL-L30)



Side-drilled guiding channel (VL-L30b)



Front-drilled guiding channel (VL-L30c)



By using roller blind with side rails there might be a risk that the fabric can jump off these rails under unfavorable conditions (especially draft). The bigger the roller blind is the bigger the risk is. To decrease such risk we recommend to use tougher fabrics. This phenomenon is not reason for a claim.

Bottom rail type DL1 is always used and is equipped with white-color transport side caps. Remove these side caps before mounting.

Larra roller blind with side rails can be used for room shading in case of projections or presentations but not for photos invoking, laboratory purposes etc. (it is not 100% black-out).

For the highest shading effect we suggest:

- Use black-out fabrics
- Close the gap between side rails and wall (using supplied self-adhesive profile or silicone which is not part of the delivery)
- Brush on the bottom rail shall be in close contact with windowsill so bottom rail keeps the fabric under permanent stretch (possible draft in window may raise the bottom rail up and cause a gap)

It is possible to place maximum 5 single independent roller blinds in one common box. Maximum width of one common box is 5700mm.

It is possible to place single roller blinds anywhere in the box. Options for single roller blinds in one common box are same as for standard single units. Box dimensions need to be entered always together with the first roller blind. Order of roller blinds is determined from left to right from interior view.

Interior roller blind Larra Eco/Larra 30, 30 with assembly profile, box semi cassette, box

Maximum dimensions by fabric type

Fabric	Bottom rail	Height (mm)	Width of roller blind (mm)																			
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
up to 0,5 mm; over 365 g/m ²	DL2	max.	3500	3500	3500	3500	3500	3500	3500	3100	2700	2400	2100	1900	1700	1500	1400	1200	1100	1000	900	800
up to 0,5 mm; over 365 g/m ²	DL1, RBR	max.	3500	3500	3500	3500	3500	3500	3500	3400	3100	2700	2500	2200	2000	1800	1700	1500	1400	1300	1200	1100
up to 0,5 mm; up to 365 g/m ²	DL2	max.	3500	3500	3500	3500	3500	3500	3500	3500	3500	3400	3000	2700	2400	2200	2000	1800	1600	1500	1300	1200
up to 0,5 mm; up to 365 g/m ²	DL1, RBR	max.	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3100	2900	2600	2400	2200	2000	1900	1800	1600	1600
up to 0,7 mm; up to 260 g/m ²	DL2	max.	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2200	2000	1800
up to 0,7 mm; up to 260 g/m ²	DL1, RBR	max.	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
up to 0,5 mm; up to 260 g/m ²	DL2	max.	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3200	2900	2600	2400	2200	2000	1800
up to 0,5 mm; do 260 g/m ²	DL1, RBR	max.	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3200	3000	2800	2600	2400
up to 0,3 mm; up to 260 g/m ²	DL2	max.	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4400	3900	3500	3200	2900	2600	2400	2200	2000	1800
up to 0,3 mm; up to 260 g/m ²	DL1, RBR	max.	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4500	4100	3800	3500	3200	3000	2800	2600	2400
up to 0,7 mm; up to 170 g/m ²	DL2	max.	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
up to 0,7 mm; up to 170 g/m ²	DL1, RBR	max.	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
up to 0,5 mm; up to 170 g/m ²	DL2	max.	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	2900
up to 0,5 mm; up to 170 g/m ²	DL1, RBR	max.	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
up to 0,3 mm; up to 170 g/m ²	DL2	max.	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4200	3800	3500	3200	2900
up to 0,3 mm; up to 170 g/m ²	DL1, RBR	max.	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4400	4100	3800

Fabric day-night	Bottom rail	Height (mm)	Width of roller blind (mm)																			
			300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
Cyprus	DRC04+DRC05, DRC-07	max.	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2200	2000	1800	1600	1500	1300	1200	1200
Corfu	DRC04+DRC05, DRC-07	max.	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2400	2100	1900
Zakynthos	DRC04+DRC05, DRC-07	max.	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2700	2400	2200	2000	1800	1600	1600
Rhodos	DRC-07	max.	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3300	3000	2700
Parga	DRC04+DRC05, DRC-07	max.	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4200	3800	3500	3100

When using day-night fabrics it might cause misbalanced coiling on the tube. This is caused by different thickness of transparent and solid stripes on fabric. This phenomenon is not reason for a claim.

Interior roller blind Larra Screen Eco/ Larra screen with assembly profile, box semi cassette, box

Maximum dimensions by fabric type

Fabric	Bottom rail	Height (mm)	Width of roller blind (mm)									
			1400	1500	1600	1700	1800	1900	2000	2100	2200	
Soltis 92	DL2	max.	2600	2600	2600	2400	2200	2000	1800	1700	1600	1500
Soltis 86	DL2	max.	2600	2600	2600	2600	2400	2200	2000	1900	1700	1600
SCR 3005	DL2	max.	2100	2100	2100	2100	2100	2100	1900	1700	1600	1500

Bottom rail

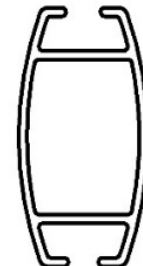
Bottom rail - flat DL 1
(7-303152)



Bottom rail - wave DL2*
(7-303174)



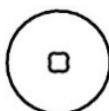
Bottom rail AL - fabric cover RBR/1
(7-302578)



Bottom rail day-night DRC-04 + DRC-05
(6-011135 + 6-011134)



Bottom rail day-night - round DRC-07
(6-015471)



*Applies for Larra and Larra SCREEN

Interior roller blind Larra Eco/Larra 30, 30 with assembly profile, box semi cassette, box, Larra Screen Eco, Larra Screen

Control

Control left (L) - the chain or cable outlet are placed left from interior

Control right (R) - the chain or cable outlet are placed right from interior

Control - manual

Endless chain thick, metal chain 4,5 mm

For the day-night version, the chain is supplied in an "endless", so called loop design.

Plastic chain: colour: white or gray

Metal chain: chrome / satin / black nickel

Control - motor

Motors ISOTRA BASIC

- motor with integrated battery and with receiver

- control via remote control (not included - it can be ordered)

position	Item name	business name	drawing number
150	Motor AM25 (DC 5V) with integrated battery and receiver	XY 00074/I	6-019128-0000
160	Power supply for AM25 (DC 5V)	XY 00076/I	6-019129-0000
161	Power cable USB-C pro AM25	XY 00079	6-019130-0000
170	ISOTRA BASIC, 1-channel hand transmitter AC127-01, white	X.AC127-01	3-04072-0001
180	ISOTRA BASIC, 6-channels hand transmitter AC127-06,white	X.AC127-06	3-04072-0006

Motor Somfy mechanical WT or motor Somfy RTS (MSm) (2-00721-0001)

- motor WT for connection to electricity distribution (24V=) or RTS battery motor

- source (not included - it can be ordered)

- button control on the wall (not included - it can be ordered)

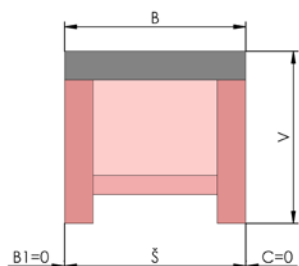
position	item name	business name	drawing number
11	Motor – Roll Up 28 WT – 24V	LAR0045	6-015168-0001
20	Power supply 12V = T&L motor	LAR0056	6-014972-0000
30	Empty tube for 10 pcs NiMH AKU	LAR0050	6-015169-0000
40	Set of 10 AA rechargeable batteries NiMH AKU	LAR0048	6-015169-0001
50	Charger for rechargeable battery NiMH AKU	LAR0049	6-015169-0002
60	Motor adapter for drive Somfy DC Ø28-30-35	RC2047-ABC	6-015170-0000
70	Motor driver for drive Somfy DC Ø28-30-35	RC2048-ABC	6-015170-0001
72	Pad M3, DIN 124-1A, 5.8, Zn	LAR0053	6-002682-0001
74	Screw 2,9x6,5, DIN 7981 C,H, Zn	DZ 224	6-003135-0000
80	Holder of motor Somfy 28 WT	RC2053-ABC	6-015170-0002
90	Holder of drive with star hole	LAR0054	6-015712-0000

Interior roller blind Larra Eco/Larra 30, 30 with assembly profile, box semi cassette, box, Larra Screen Eco, Larra Screen

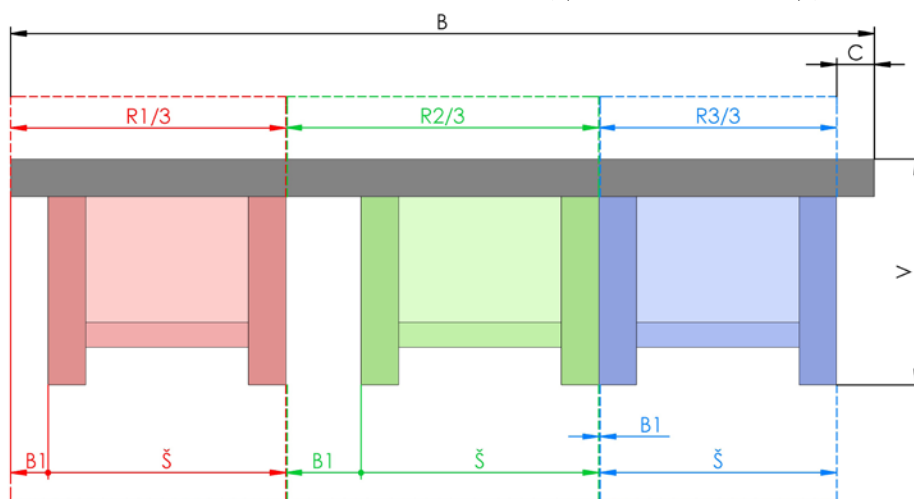
Measurement and assembly

1. Measurement

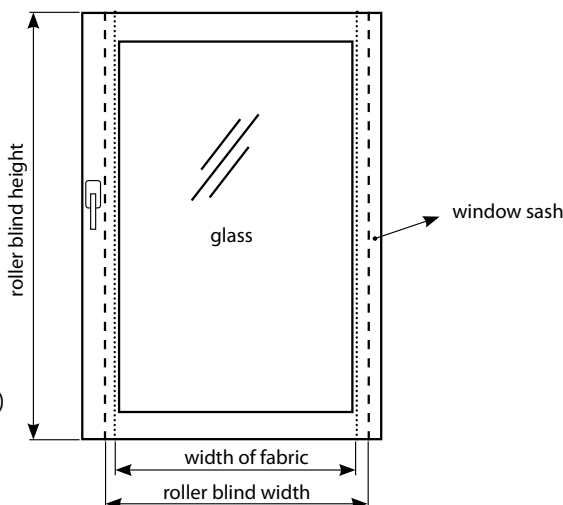
Sole roller blind



More roller blinds in one cassette (interior view)



ROLLER BLIND WITH HOLDERS WITHOUT DRILLING



It is possible to place the roller blind into lining or above the opening (on the wall or ceiling). The width and height are measured in the following manner:

Sole roller blind:

- B – Cassette length – value is same as Š – for LAR30 and LAR30mp is always 0
- Š – Width of blind for installation into lining. You shall measure real width of the opening, deduct 5mm and put this value into the order form. For real width of the blind it is necessary to deduct gaps – see next paragraph.
- Š – Width of blind for installation above the opening. Usually 200mm are added to the measured width of the opening and put into order sheet. For real width of the blind it is necessary to deduct gaps – see next paragraph.
- B1 – Always 0
- C – Always 0
- V – Height – you shall measure the whole height including top profile.

Roller blind with holders without drilling

The width of the roller blind is not the same as the width of the fabric, deductions must be made to calculate the actual width of the fabric, see table below.

For roller blinds with guides, 10mm should be subtracted from the height of the roller blind due to the tension angle.

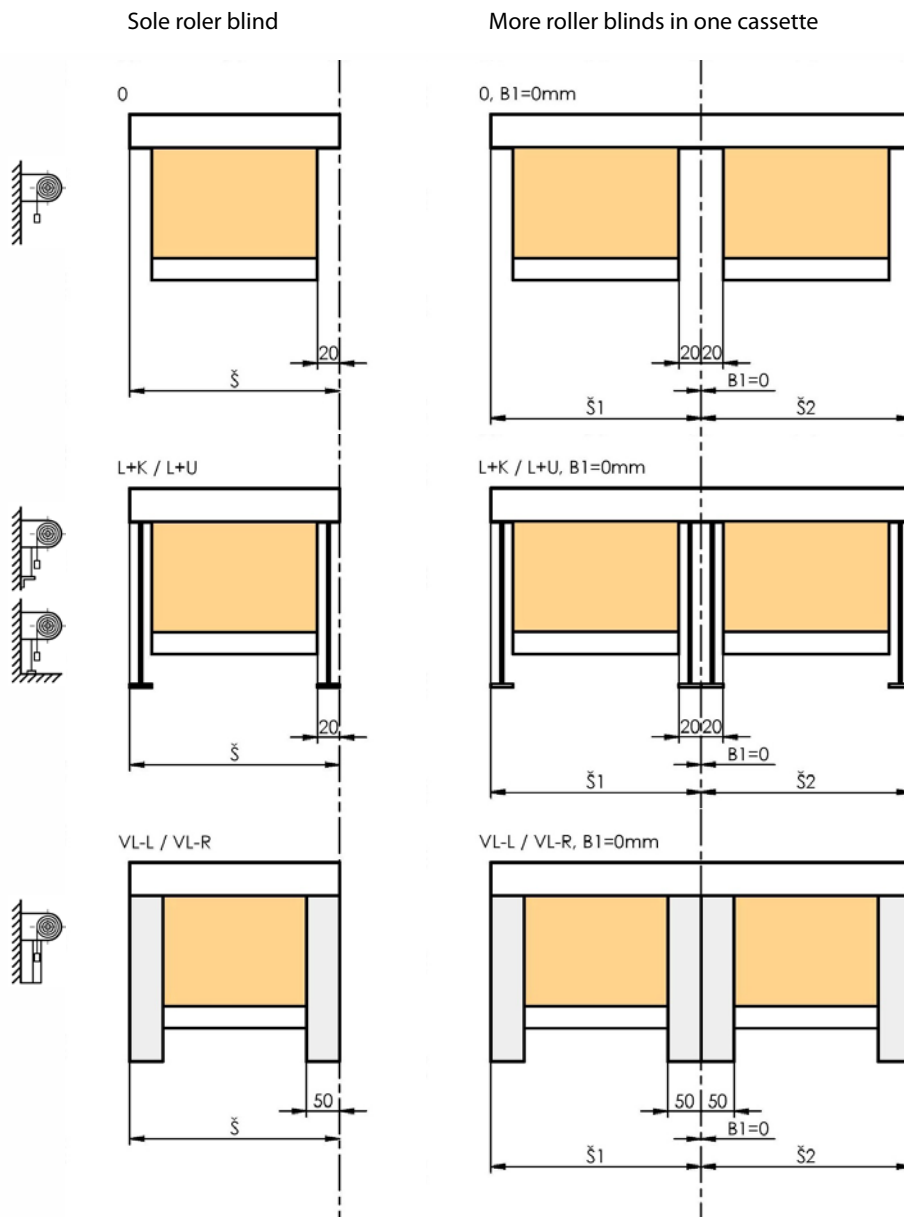
More roller blinds in one common cassette:

- B – Common cassette length for installation into the lining. You shall measure real width of the opening, deduct 5mm and put this value into the order form.
- B – Common cassette length for installation above the opening. Usually 200mm are added to the measured width of the opening and put into order sheet.
- Š – Width of single roller blind. For real width of the blind it is necessary to deduct gaps – see next paragraph.
- B1 – Gap from the edge of the cassette or previous roller blind
- C – Gap between last roller blind and edge of the cassette – control measure.
- V – Height – you shall measure the whole height including top profile.

Interior roller blind Larra Eco/Larra 30, 30 with assembly profile, box semi cassette, box, Larra Screen Eco, Larra Screen

Measurement and assembly

Gaps deduction for real size of fabric



Gaps sizes may vary with +/- 5mm tolerance

Informative: Deduction for calculating the actual width of the fabric compared to the total width of the roller blind:

	Larra	Larra with fabric day/night
tube 30	width – 47 mm	width – 47 mm
tube LARRA SCREEN 35	width – 50 mm	X

Interiour roller blind Larra Eco/Larra 30, 30 with assembly profile, box semi cassette, box, Larra Screen Eco, Larra Screen

Measurement and assembly

2. ASSEMBLY

Please make the assembly only according to this manual. You can avoid useless mounting failures or other concerning inconveniences.

ASSEMBLY TOOLS:







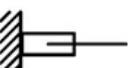


- Tape measure
- Spirit level
- Electric drill as per the source of surface
- Cordless electric drill
- Magnetic adapter, bit PZ2
- hammer
- pliers 2x
- flat screwdriver
- cross screwdriver
- screws, dowels

INSPECTION:

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

Please note: When installing LARRA roller shutters with brackets without holes, it is important that a minimum distance of 65 mm, ideally 70 mm, is maintained between the sash and the window to ensure that the window is fully functional. If this distance is not maintained, the window cannot be opened to 90 degrees. Therefore, make sure that this minimum dimension is maintained during installation to ensure maximum functionality of the window.

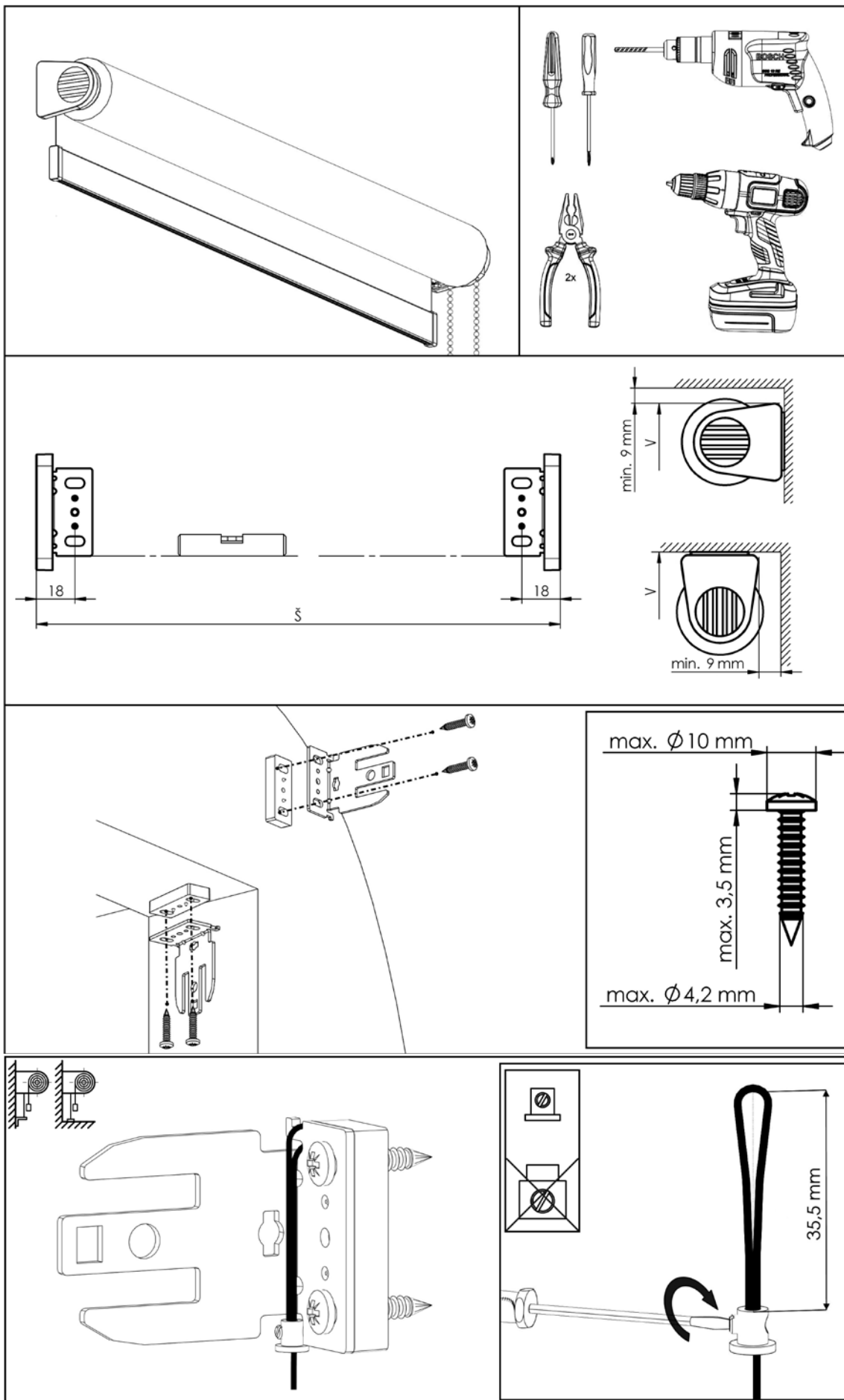
KEY SYMBOLS USED:

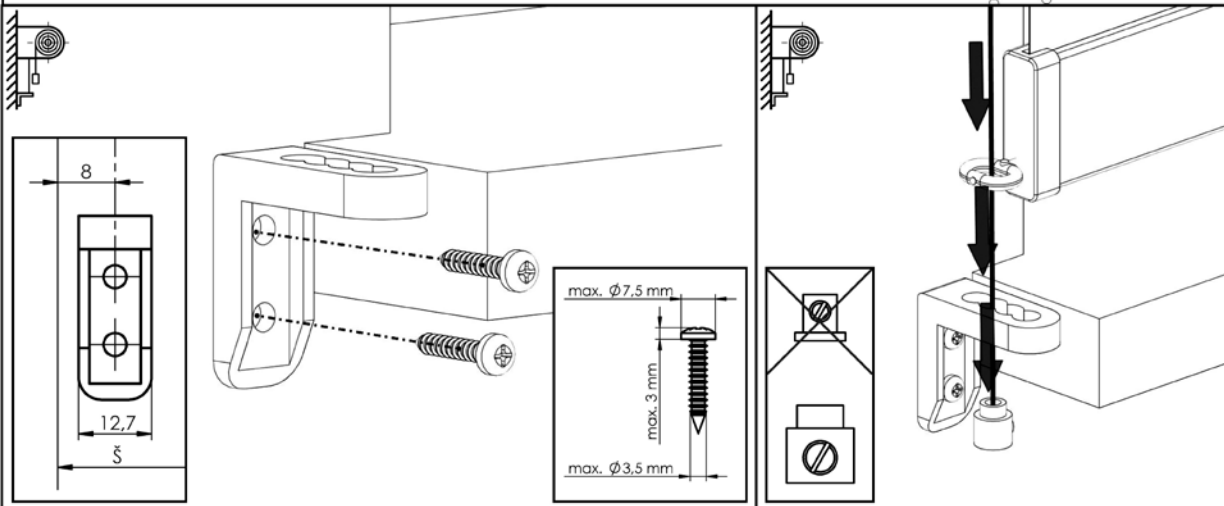
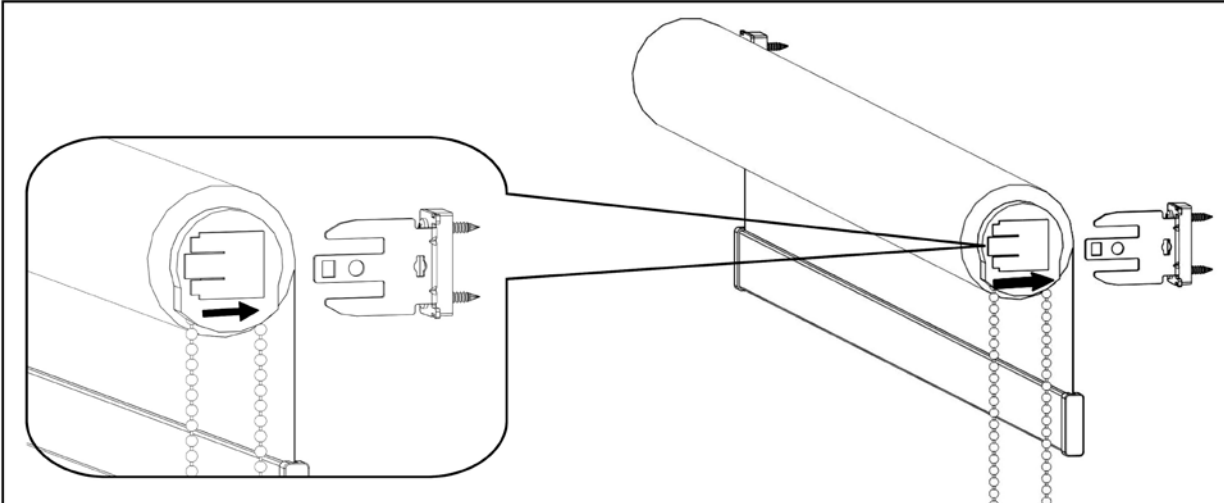
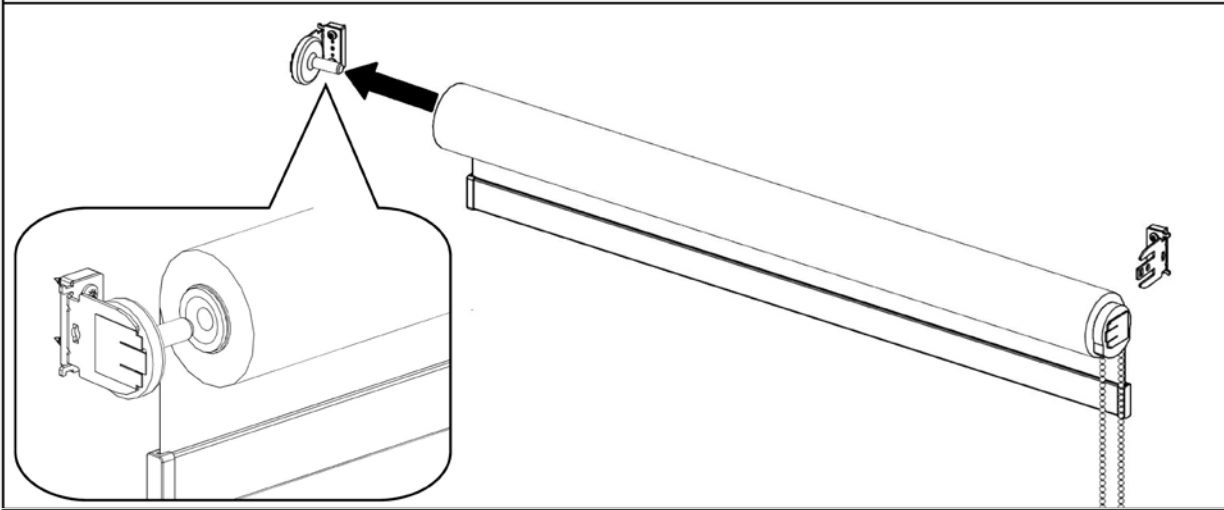
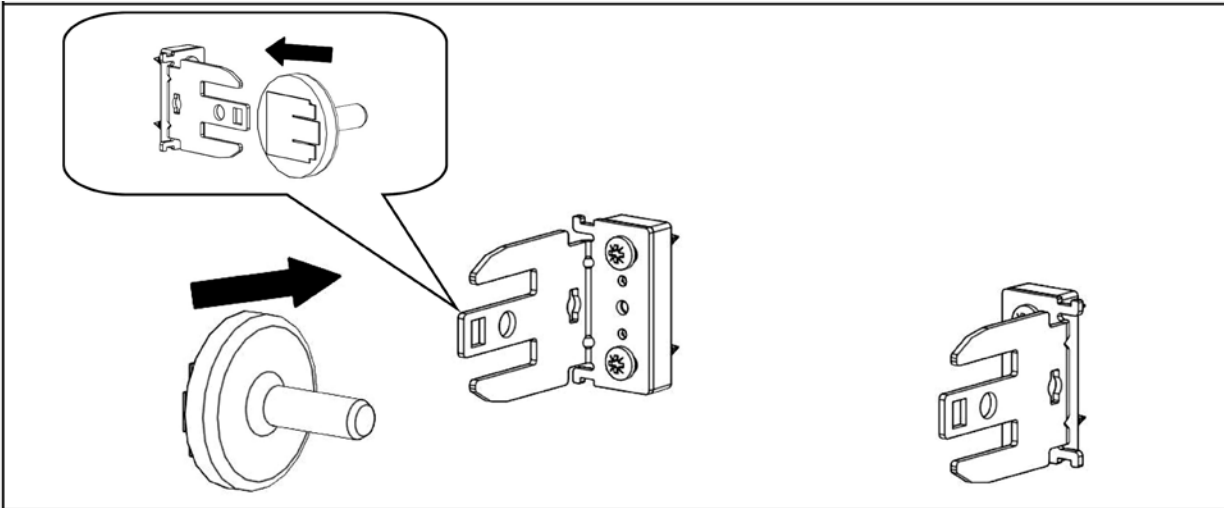
	Valid for freehanging roller blind		Valid for roller blind guided by wire, mounting to the wall
	Valid for roller blind guided by wire, mounting on the sill		Valid for roller blind guided by guiding channels
	Valid for day-night roller blind		Valid for assembly of guiding channels to the wall
	Valid for assembly of guiding channels to the lining		Tip for easy assembly
	Perform a visual inspection		

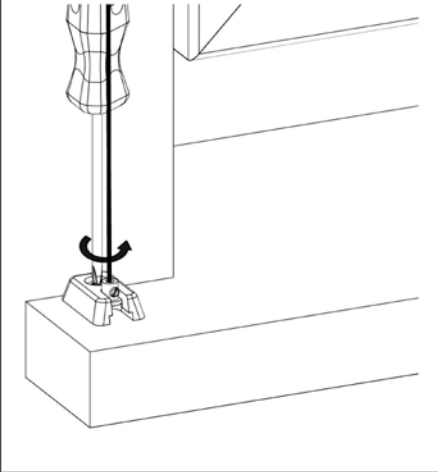
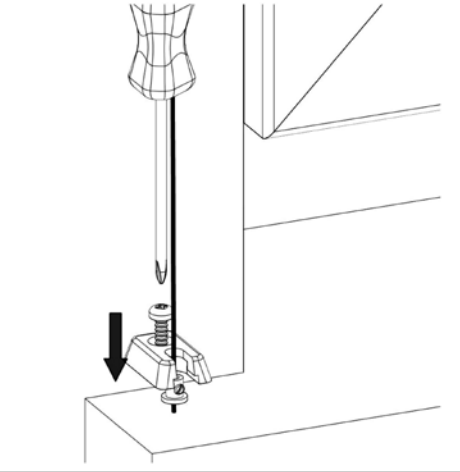
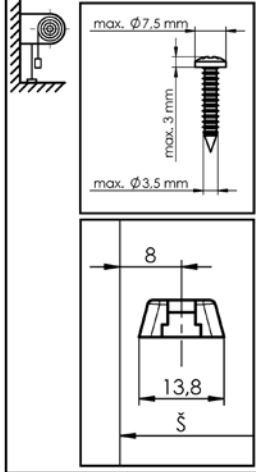
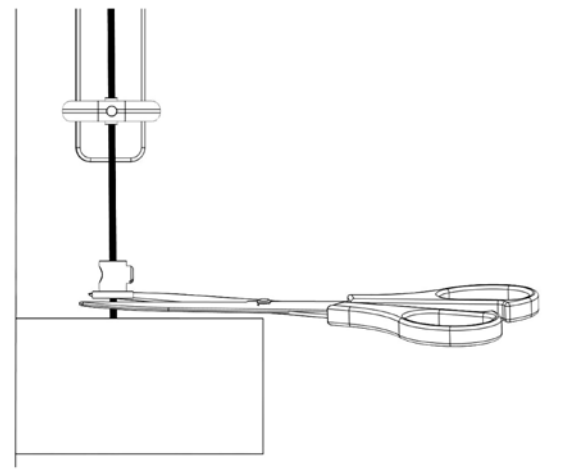
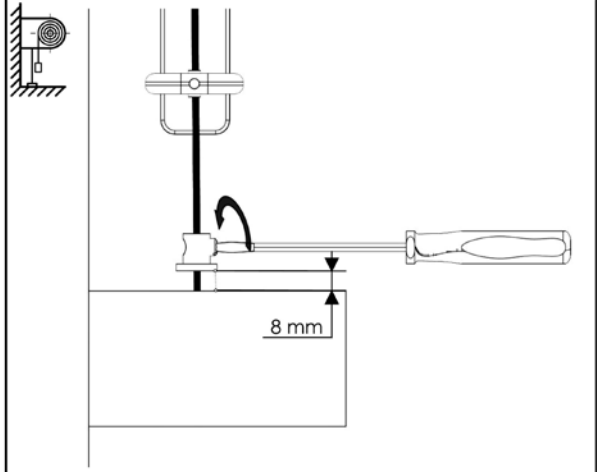
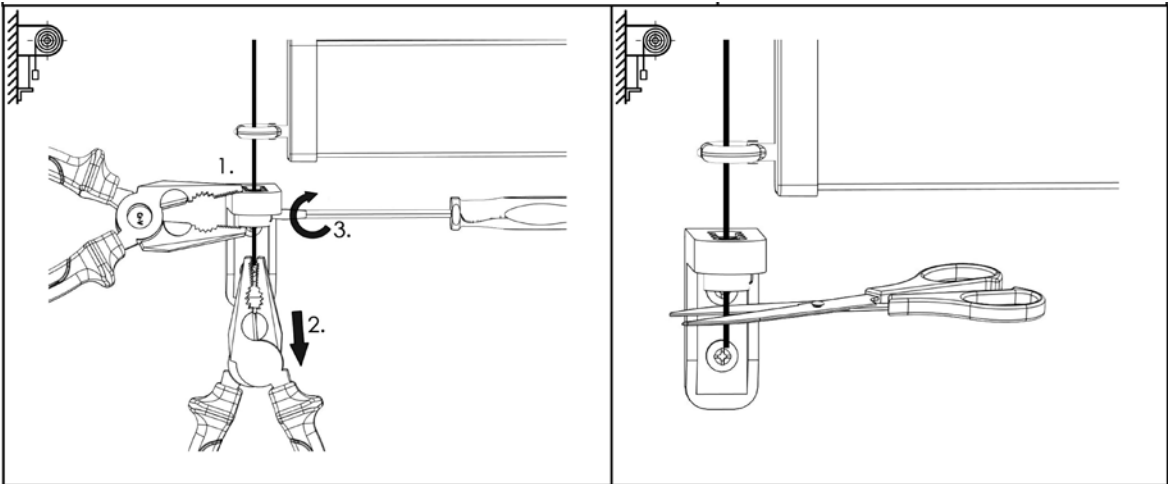
ROLLER BLIND ON SEPARATE BRACKETS:

- Roller blind LARRA with separate brackets is delivered in disassembled condition
- Check the roller blind sizes
- Make the mounting according to the picture manual below
- Check end positions, brake function and overall functionality of the roller blind.

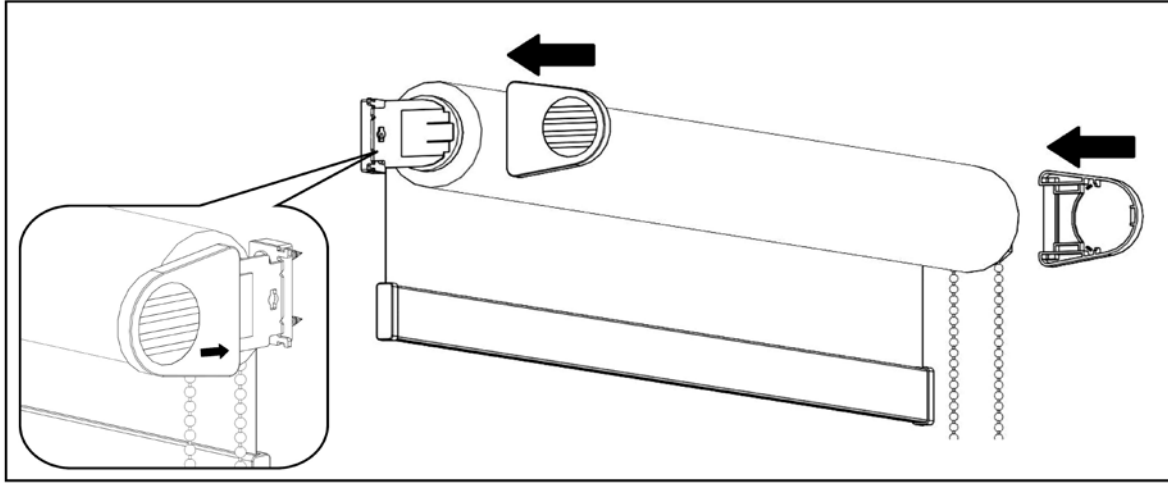
Assembly:







Disassembly:



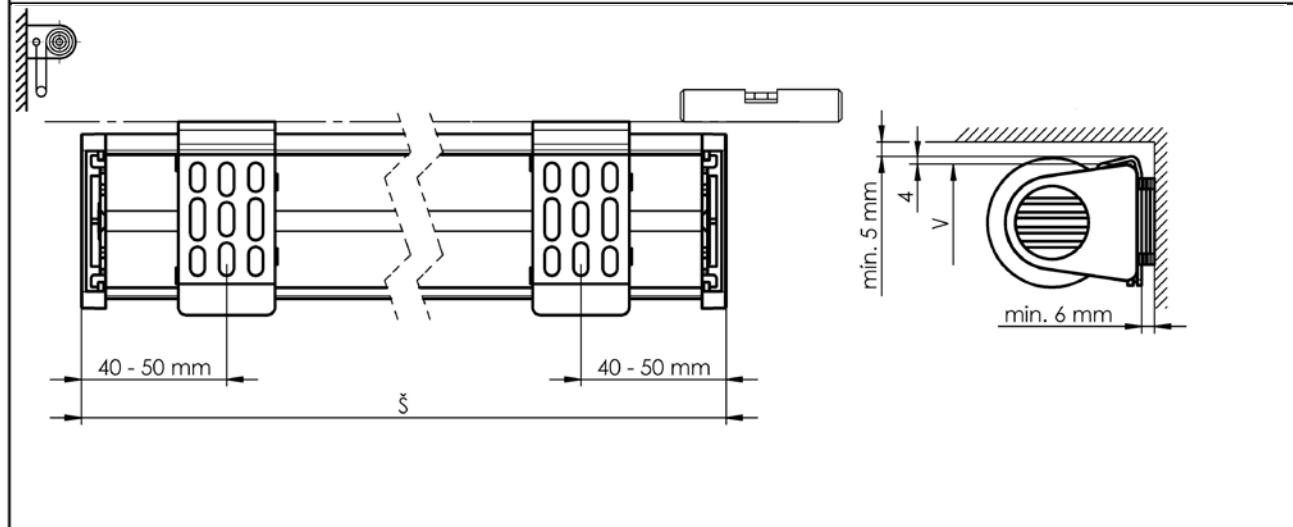
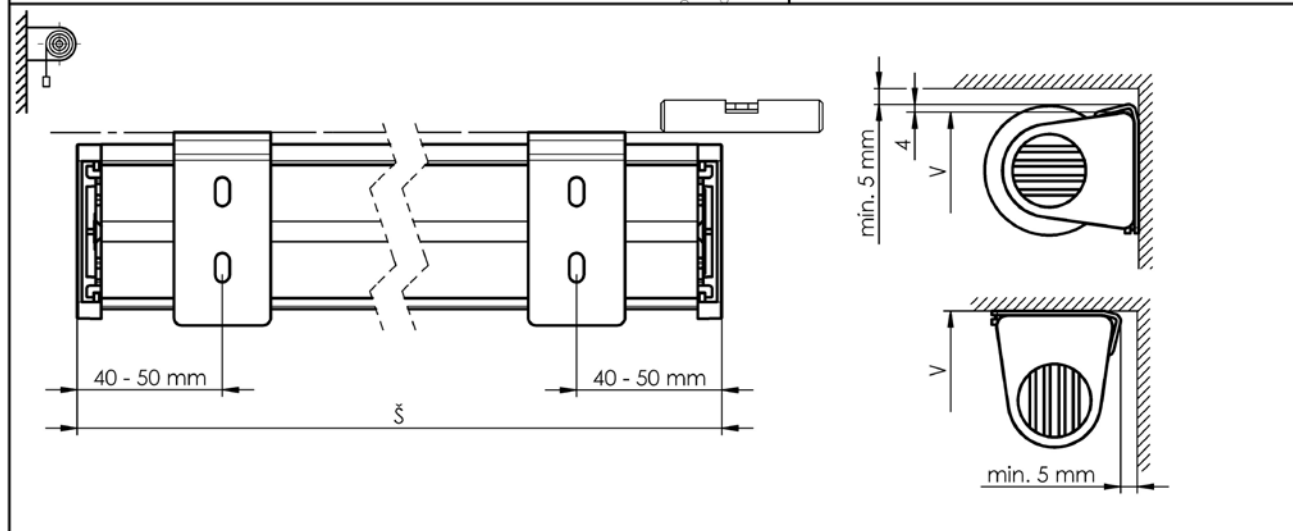
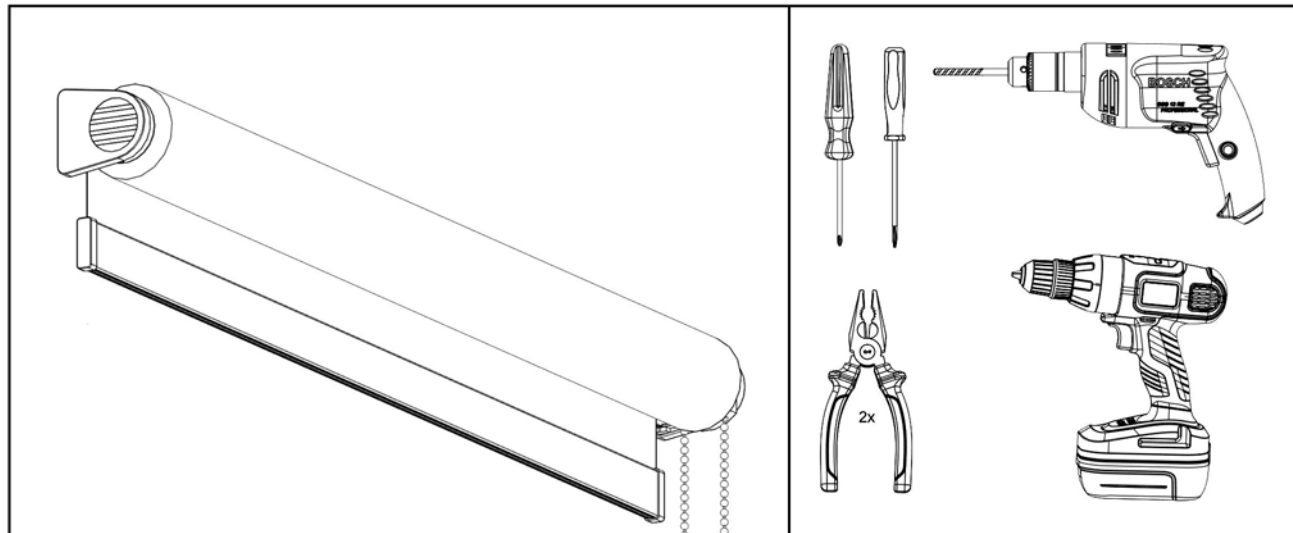
ROLLER BLIND WITH MOUNTING PROFILE:

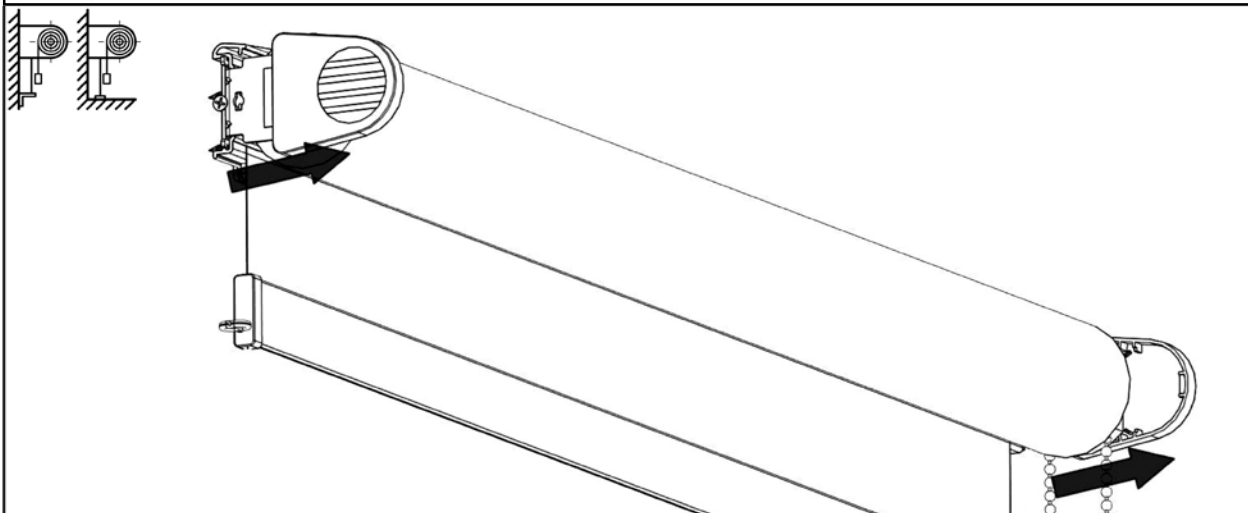
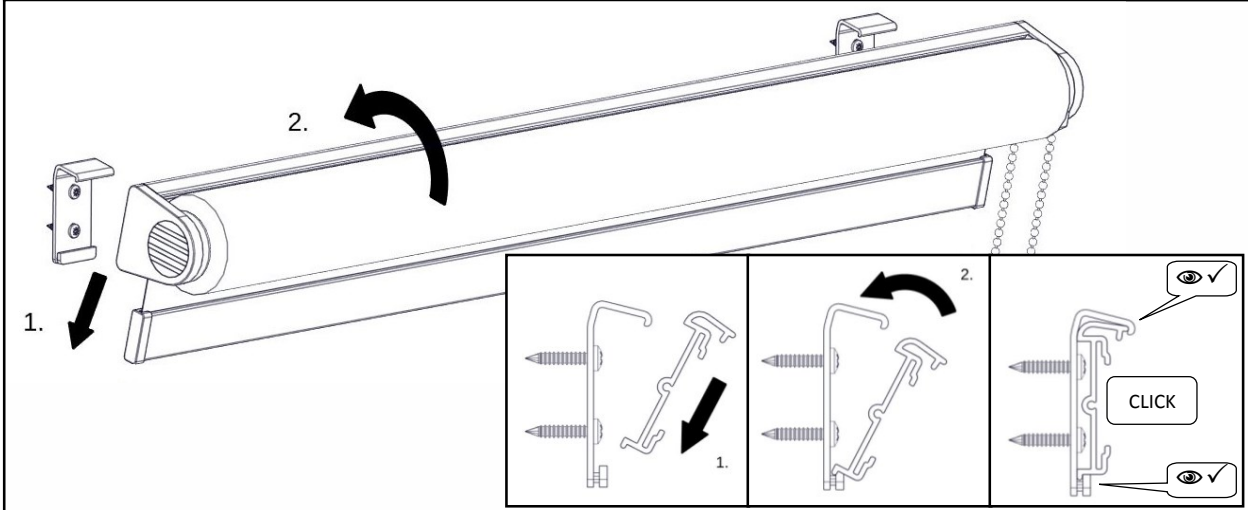
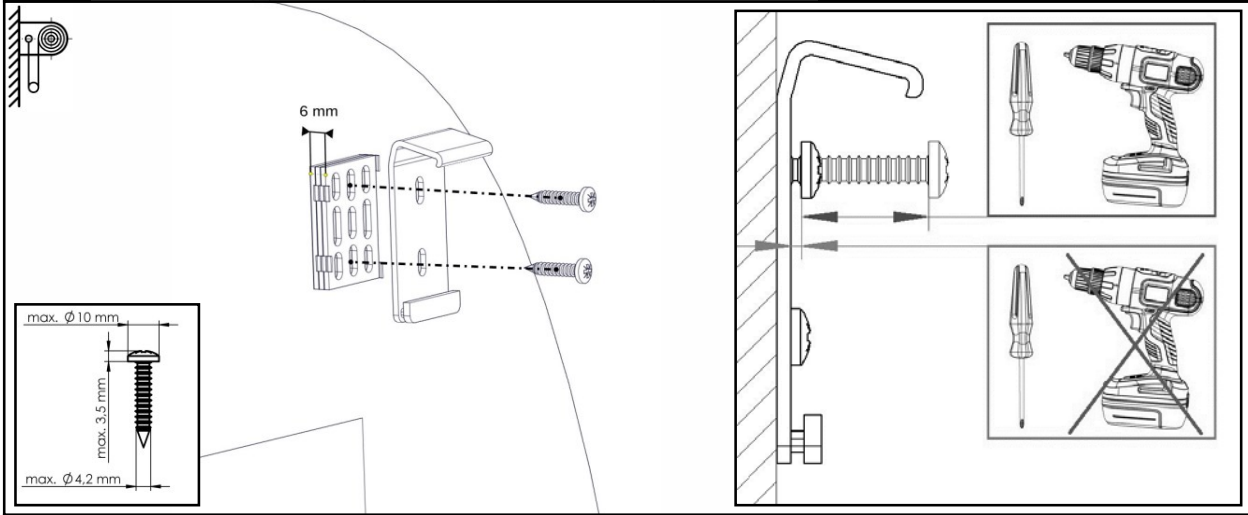
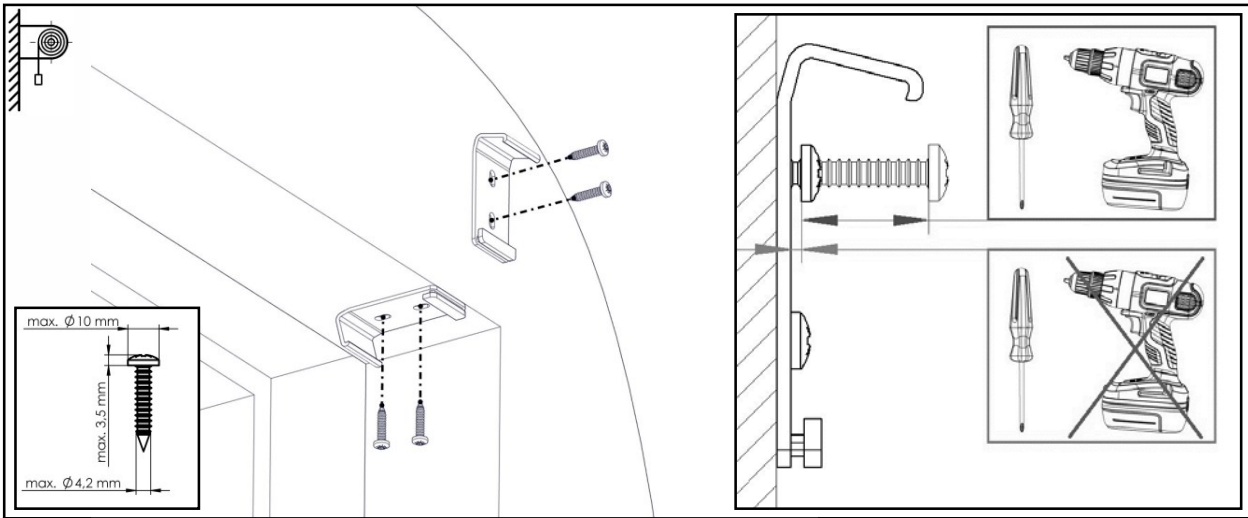
- Roller blind LARRA with mounting profile is delivered in assembled condition directly from the production plant.
- Check the roller blind sizes
- Make the mounting according to the picture manual below
- Check end positions, brake function and overall functionality of the roller blind.

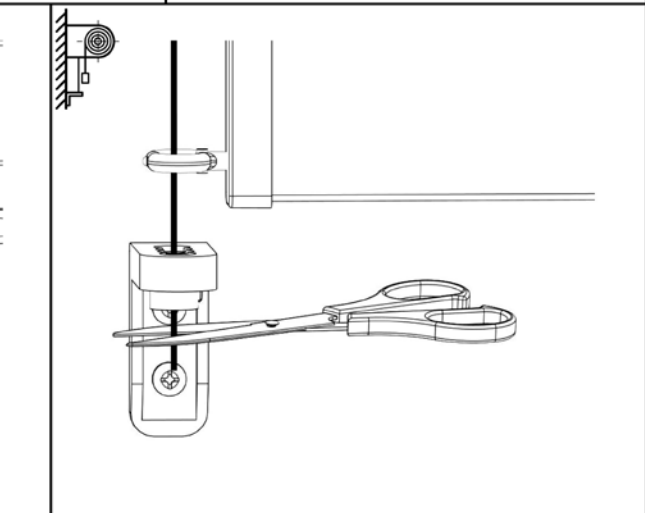
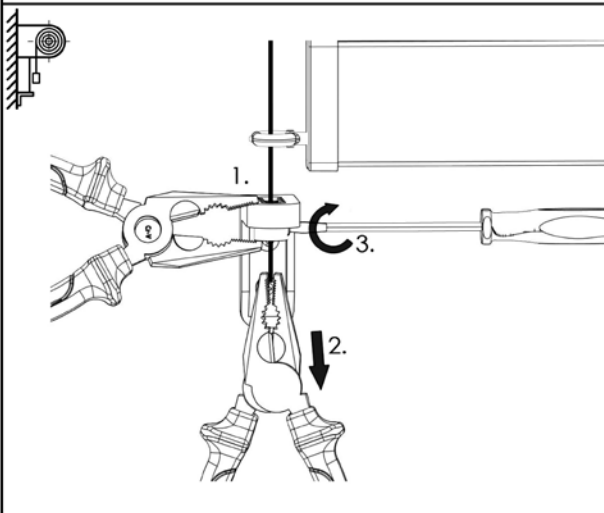
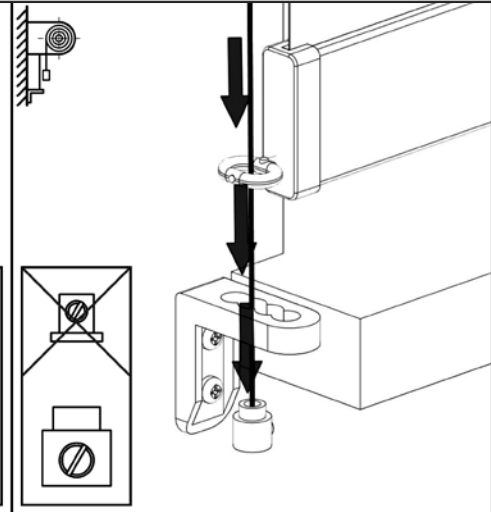
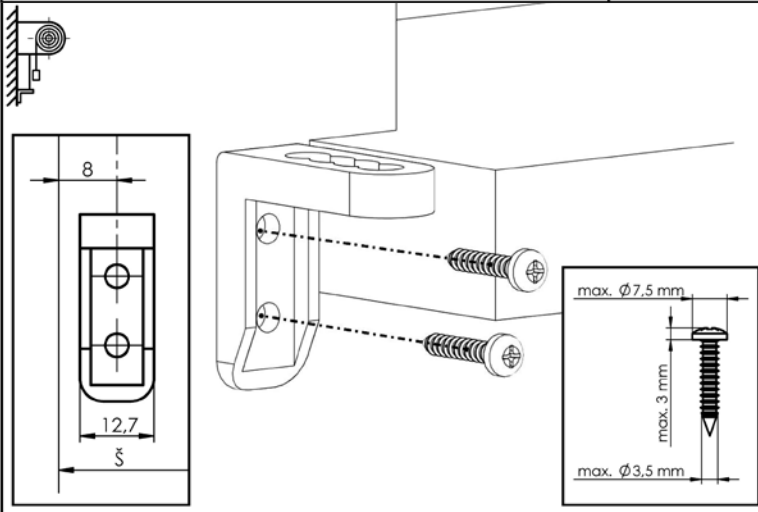
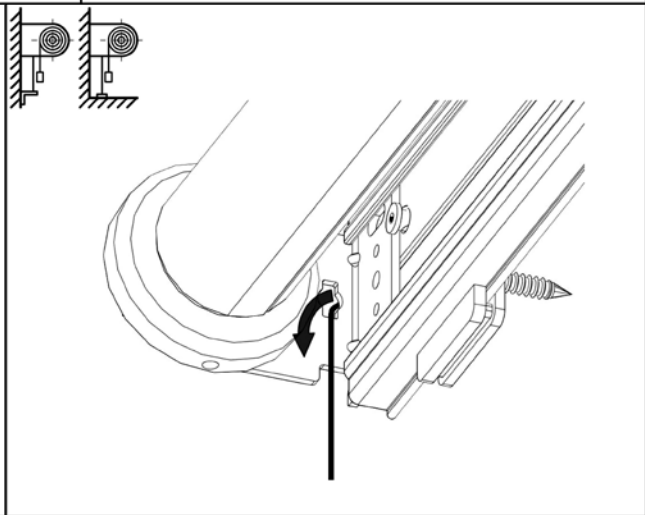
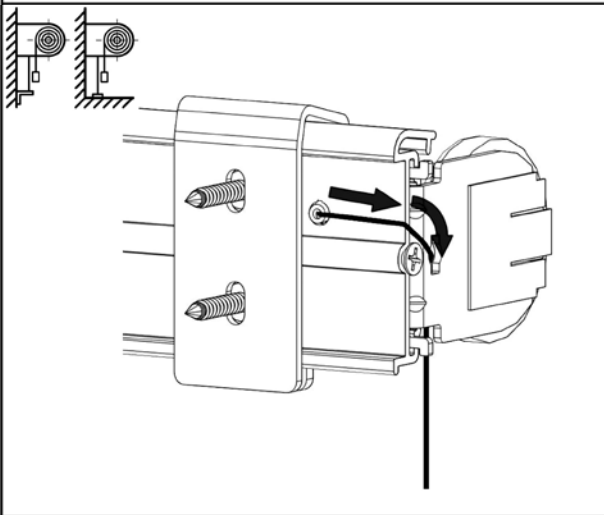
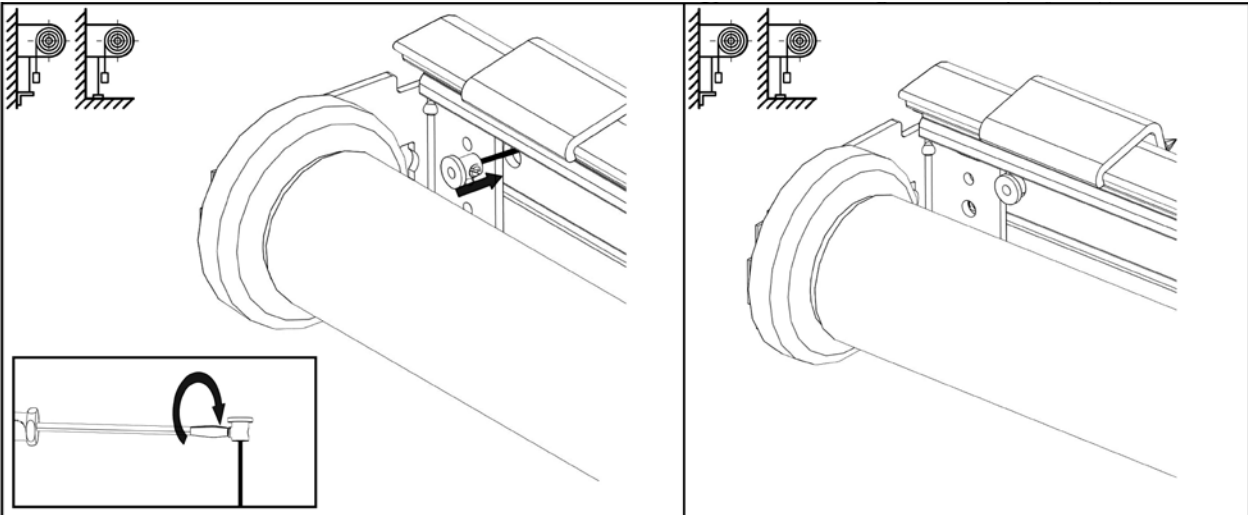
Number of brackets for roller blind with mounting profile

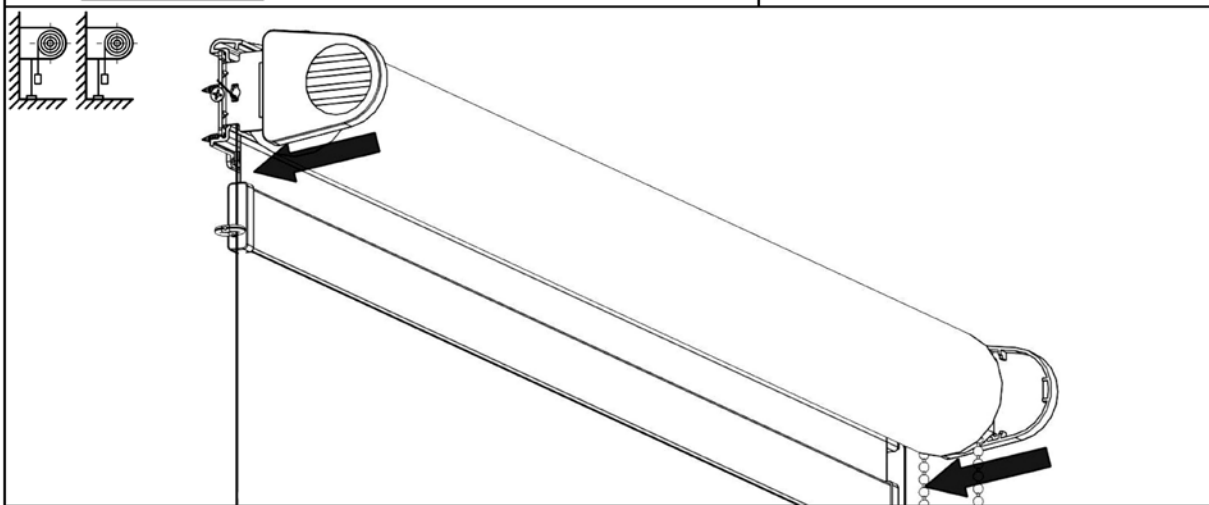
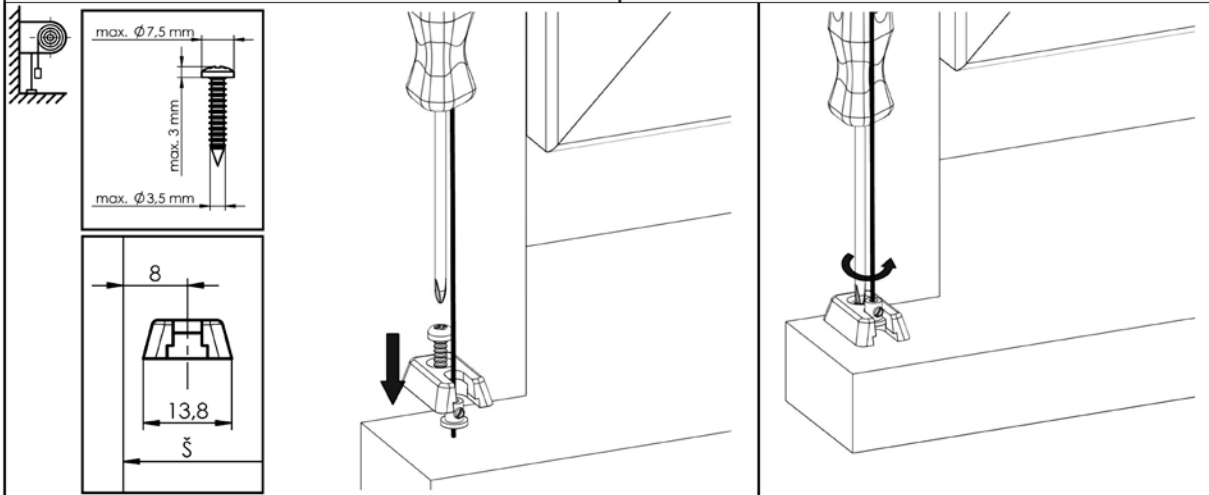
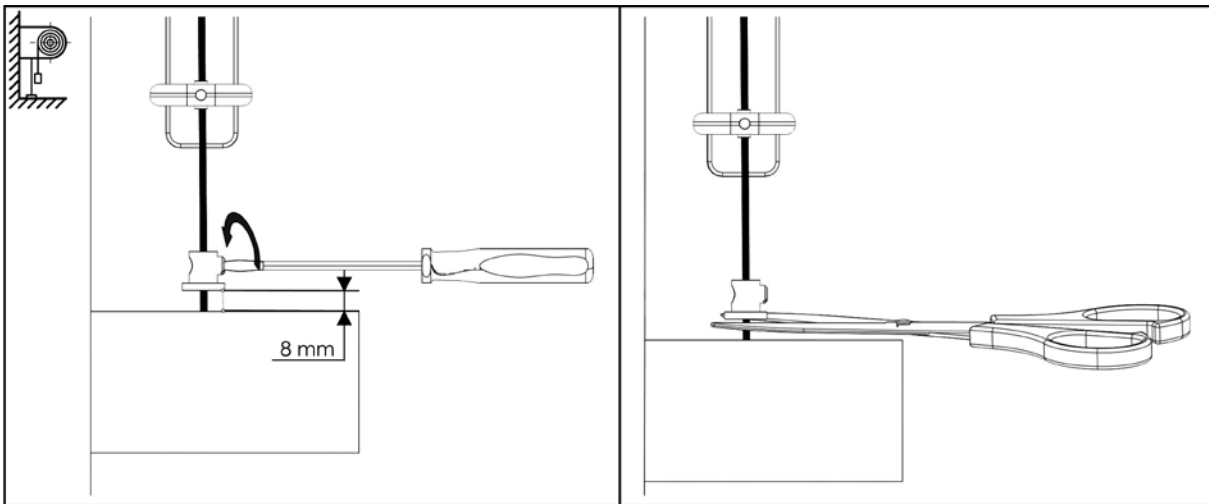
Roller blind width (mm)	Number of brackets (pcs)
0 - 900	2
901 - 1600	3
1601 - 2200	4

Assembly:

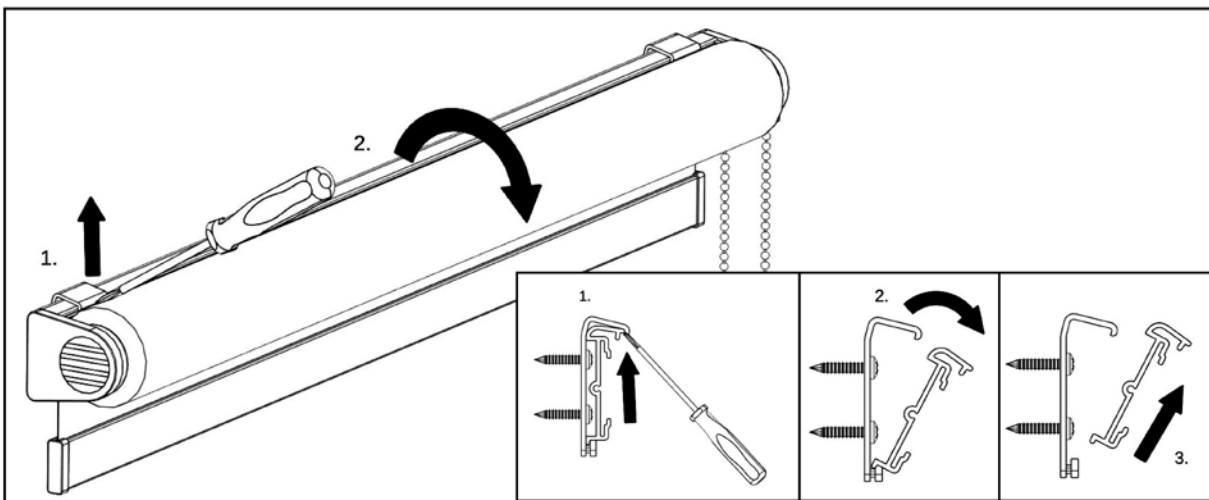








Disassembly:



ROLLER BLIND WITH CASSETTE:

- Roller blind LARRA with cassette is delivered in disassembled condition
- The Velcro, which the box is pulled, we do not remove. The Velcro remove after assembly.
- Check the roller blind sizes
- Make the mounting according to the picture manual below
- Check end positions, brake function and overall functionality of the roller blind.

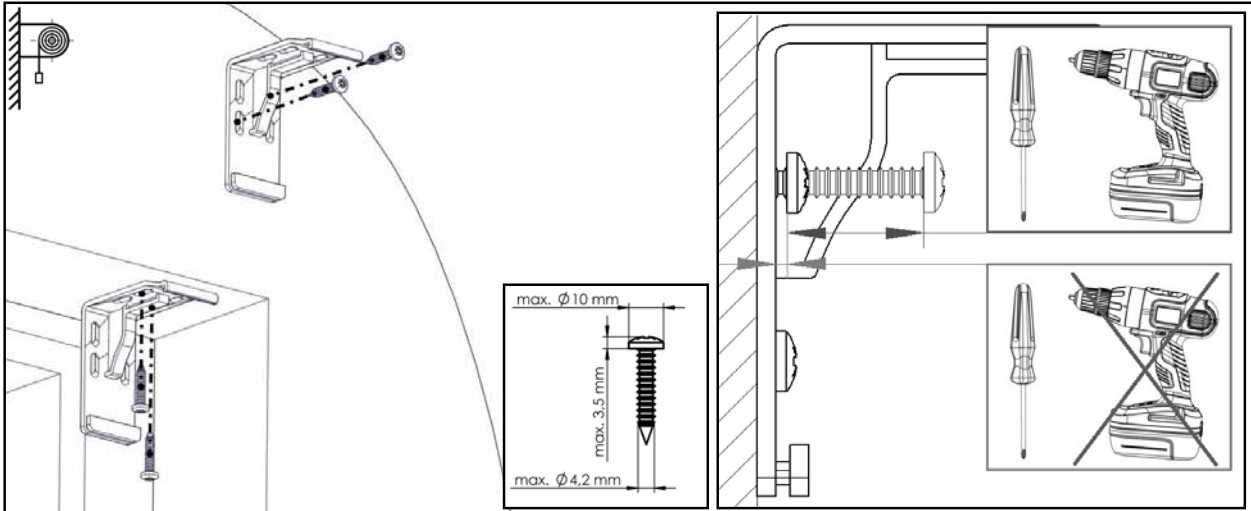
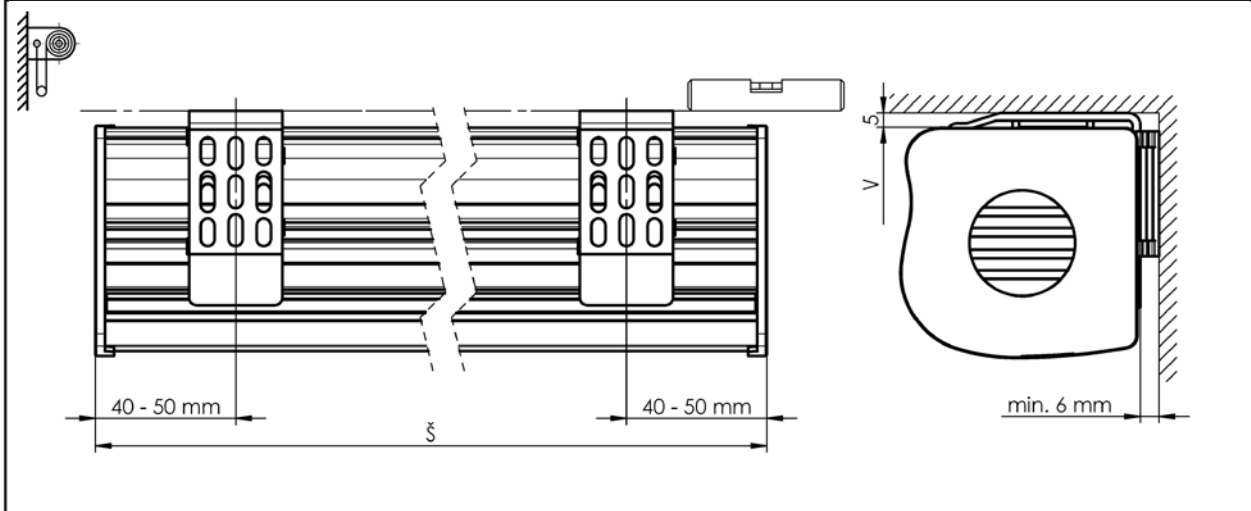
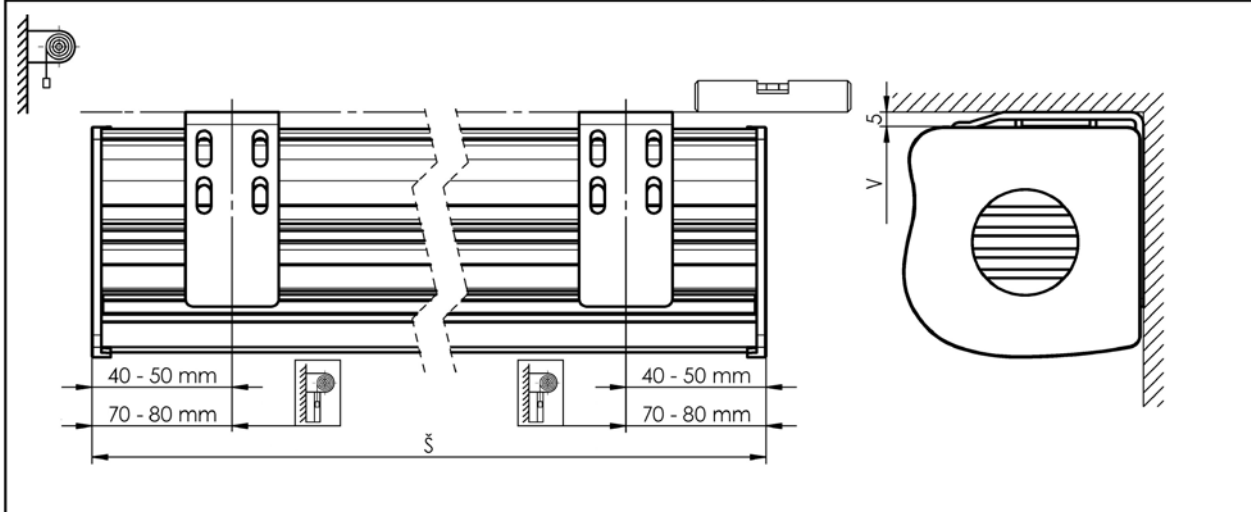
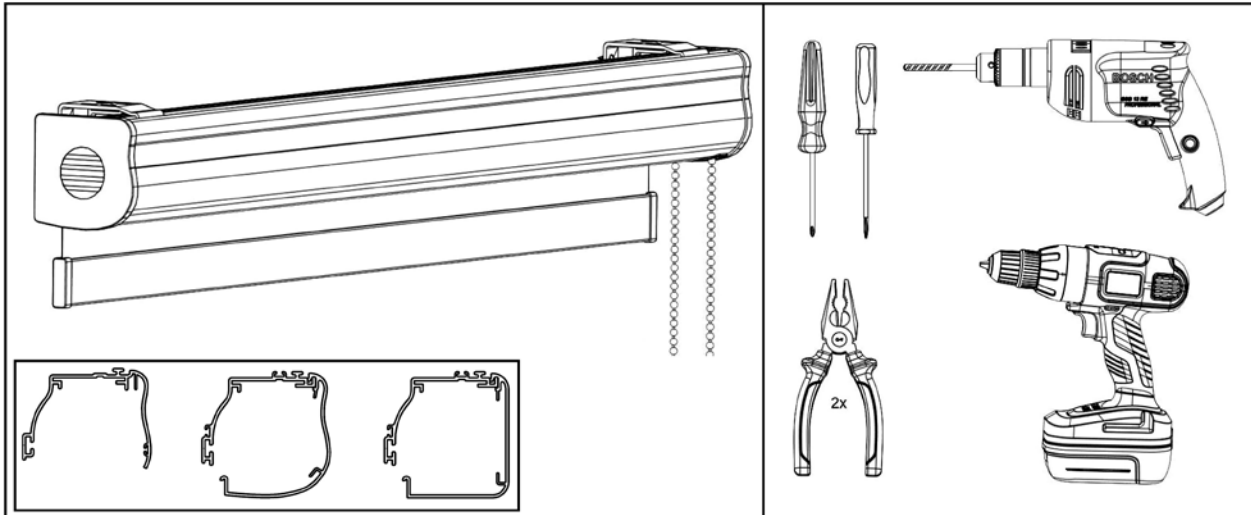
Number of brackets for sole cassette roller blind

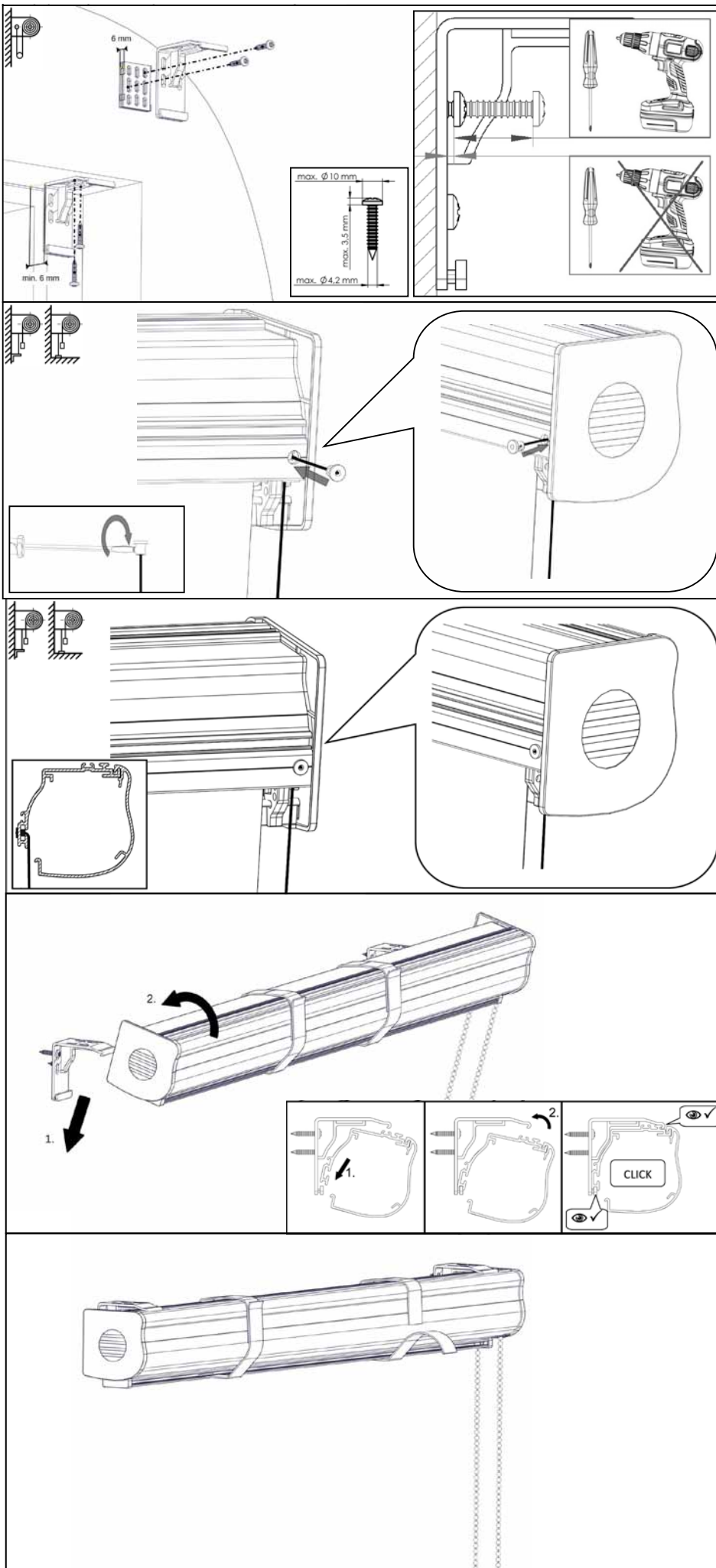
Roller blind width (mm)	Number of brackets (pcs)
0 - 900	2
901 - 1600	3
1601 - 2200	4

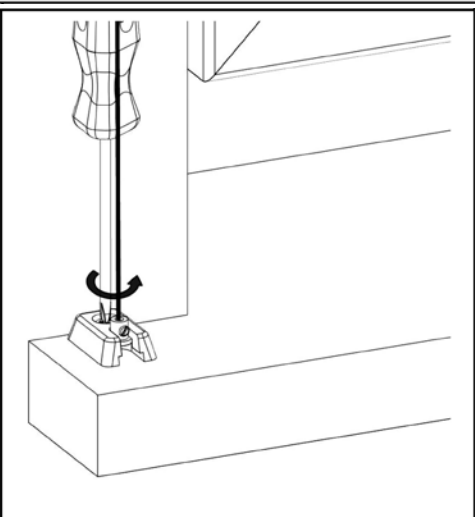
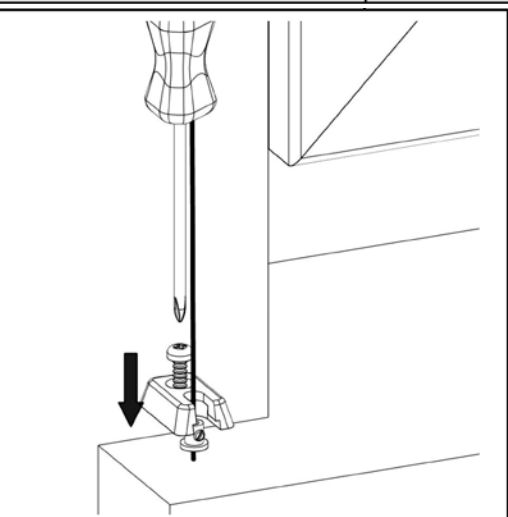
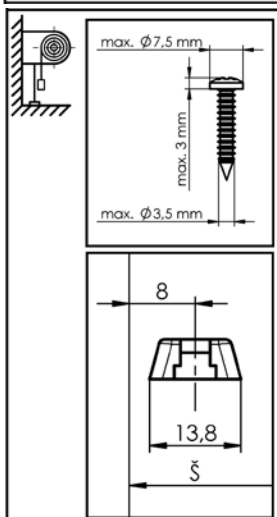
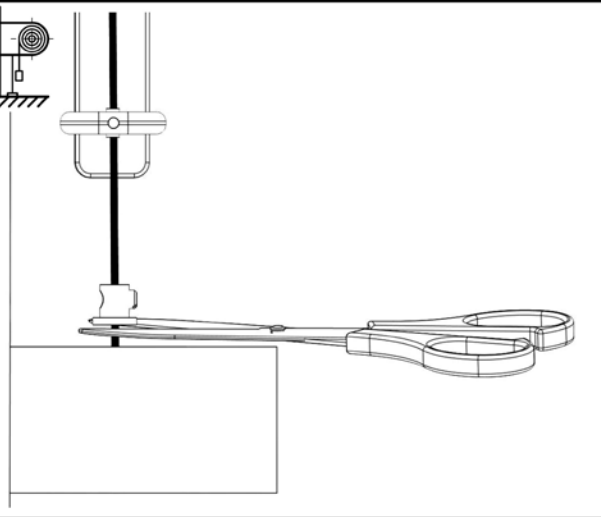
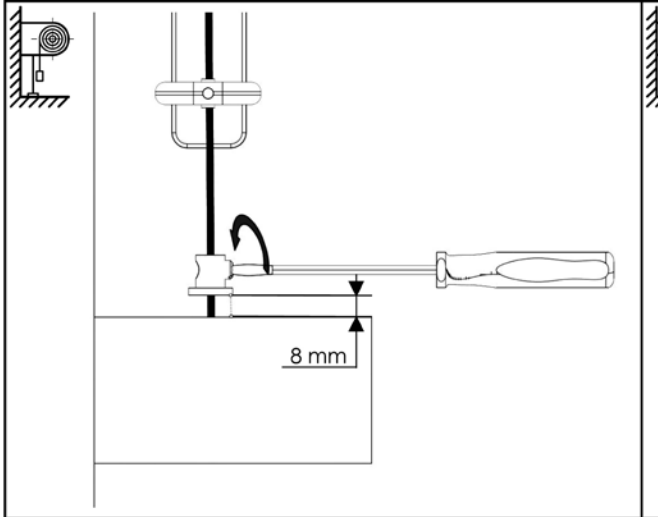
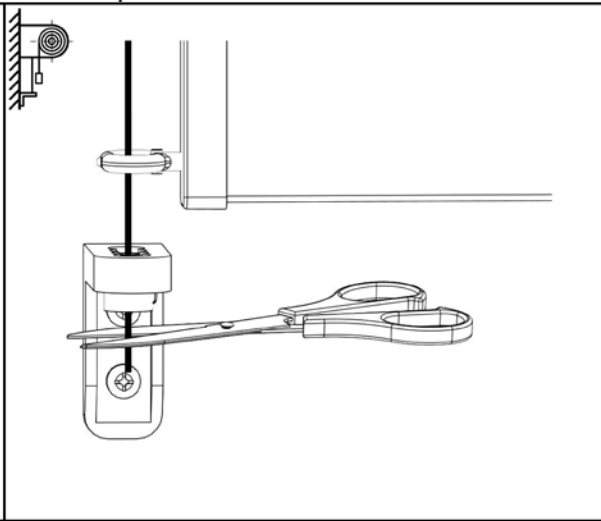
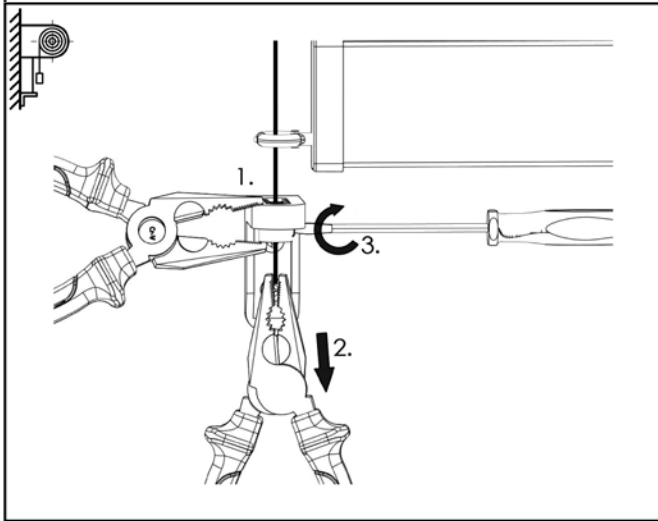
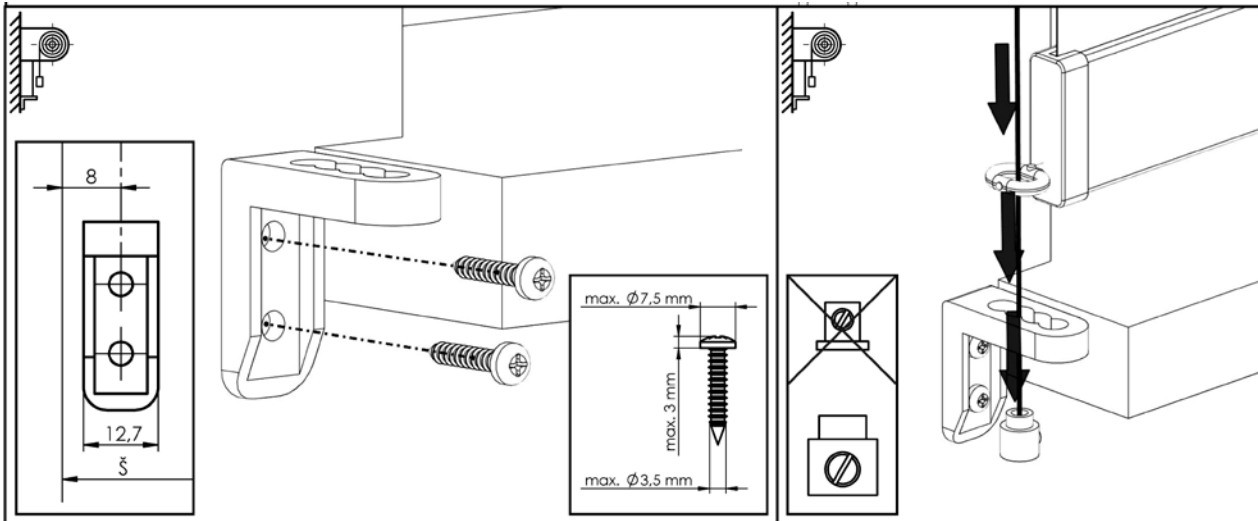
Number of brackets for more blinds in one common cassette

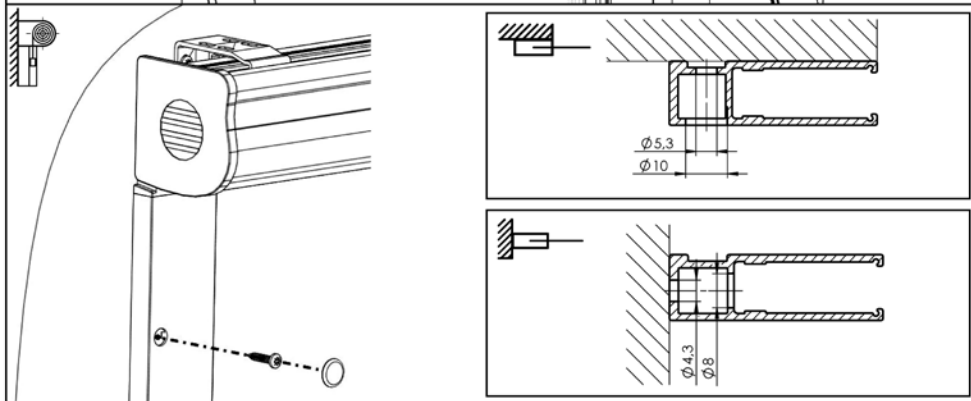
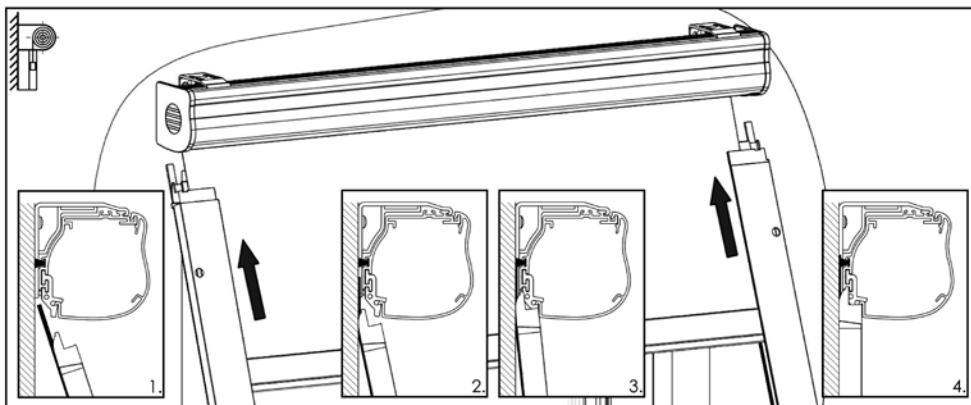
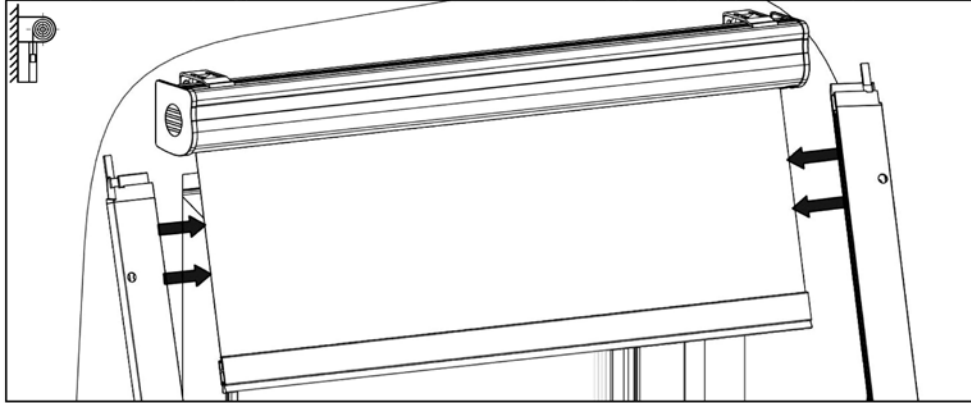
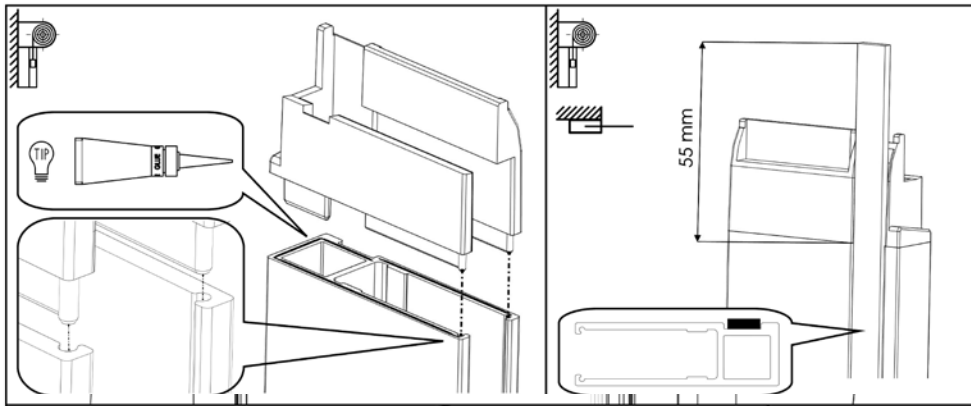
Roller blind width (mm)	Number of brackets (pcs)
0 – 900	3
901 – 1600	4
1601 – 2200	5
2201 – 3200	7
3201 – 4000	8
4001 – 4800	9
4801 – 5700	10

Assembly:

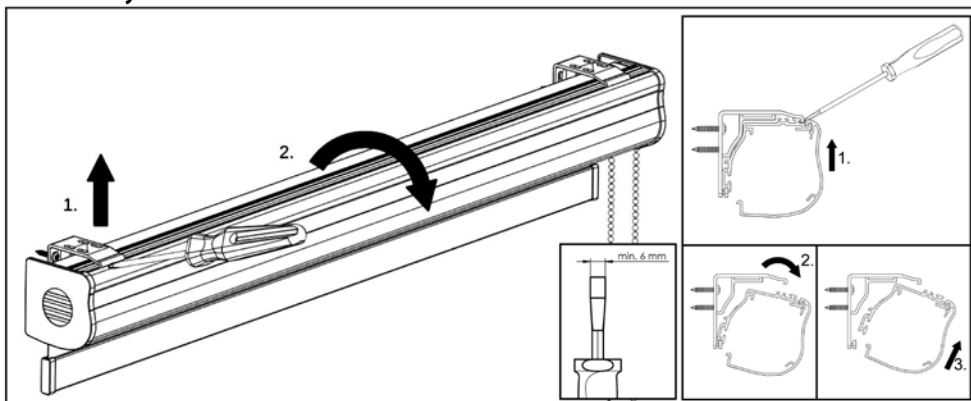








Disassembly:





- ▲ Simple design
- ▲ Wide colour range of fabrics used
- ▲ Easy handling and assembly

ISOTRA *Quality*

Standard dimensions Verra – tube 50 – with screen fabric

Fabric	Width (mm)		Height (mm)		Area (m ²)
	min.	max.	min.	max.	max.
Satiné, Satiné Metal	300	3000	300	3200	9,8
Screen Nature	300	3000	300	5500	16,5
SCR 3005	300	3000	300	4100	12,5
Soltis 92	300	3000	300	4000	12,2
Cristal plus 500 3S	300	3000	300	2830	8,4

Verra (2-01130/01131/01132-XXXX)

Position	Item name	Abbreviation	Drawing number
10	Steel wire 0,9 mm	A 74/2	6-000181-0000
10	Winding roller dia. 28mm self-adhesive	RTU-28	6-010805-0028
10	Winding roller dia. 42mm self-adhesive	RTU-42	6-010805-0042
10	Mounting profile 25mm WHITE / ELOX	RCUP-25-W / A	6-011127-000W / 000A
10	Mounting profile 42mm WHITE / ELOX	RCUP-42-W / A	6-011125-000W / 000A
10	Tube RTU-50	RTU-50/1	7-303595-0050
10	Bottom rail DAY/NIGHT WHITE / ELOX	DRC-05-W / A	6-011134-000W / 000A
10	Bottom rail DAY/NIGHT WHITE / ELOX – round	DRC-07-W/A	6-015471-000W/000A
10	Bottom tube DAY/NIGHT WHITE / ELOX	DRC-04-W / A	6-011135-000W / 000A
10	Bottom rail profile - fabric cover	RBR/1 9010 / PU52	7-302578-9010 / PU52
120-160	Clip for mounting profile 25 WHITE / GREY	RCU-SC25-W / G	6-011126-000W / 000G
120-160	Clip for mounting profile 42 WHITE / GREY	RCU-SC42-W / G	6-011118-000W / 000G
200	Screw M4x6 Din 913	07810.040.006	6-005395-0000
300	Motor (ISOTRA BASIC)		2-01148-0000
301	ISOTRA BASIC Motor holder	XY 00077/1	3-03164-0000
400	Plastic sidewall 28 WHITE / GREY	RC2009-W / GR	6-014544-000W / 00GR
400	Plastic sidewall 42 and 50 WHITE / GREY	RC3010-W / GR	6-014551-000W / 00GR
410	Control mechanism 28 plastic WHITE / SATEEN	RC2001-W / GR	6-014545-000W / 00GR
410	Control mechanism 42 and 50 plastic WHITE / GREY	RC3001-W / GR	6-014553-000W / 00GR
420	Adjustable bolt + carrier WHITE / GREY - SET	RC2004-W / GR	6-014547-000W / 00GR
421	Fixed bolt + carrier WHITE / GREY	RC2003-W / GR	6-014806-000W / 00GR
430	Tube end 28 WHITE / GREY	RC2002-W / GR	6-014546-000W / 00GR
430	Tube end 42 WHITE / GREY	RC3005-W / GR	6-014555-000W / 00GR
440	Adapter of 42 tube	RC3026	6-014557-0000
600	Spring 1,6 x 500 LEFT	RC3109	6-008854-0001
600	Spring 1,6 x 500 RIGHT	RC3108	6-008855-0001
601	Control mechanism adapter L+R	RC3110	6-018115-0000
700	Rough control chain (4,5x6 mm)	IS 12/1	6-000962-XXXX
700	Metal control chain (4,45x6,15 mm)	VRO 0311	6-008794-0000
700	Rough endless chain (interior blinds)	IS 12/51	2-00608-0003
910	Tape for profile RBR 7x0,4 mm	FS2002	6-017814-0000
920	Ensuring ribbon 8x0,4 mm	FS2003	6-017815-0000
1000	Chain connector	IS 28/1 9006/9010	2-01039-9006/9010
1010	Fixed pulley	XY 00036	2-01045-0000
1050	Metal chain connector 4,5mm	VRO 0028	6-008792-0000
1100	Bottom rail cover plastic - fabric cover	RCU-44-TR	6-012457-00TR
1110	Bottom rail cover plastic - fabric cover + accessories	RBE-F-TR	6-012454-00TR
1120	Bottom tube DAY/NIGHT WHITE / ELOX	DRC-09-A/W	6-015472-000A/000W
1120	Cover - SET - DAY/NIGHT WHITE/GREY + COUPLE	DRC-03-W/G	6-011136-XXXX
1130	Pin for RCU-44	RCU-19-TR	6-012458-00TR
1200	Fabric		see Fabric swatch
1300	Double side adhesive tape 10x0,8	FS2004	6-017816-0000
1830	Wall bracket for wire tightening	RCU-24	6-011140-0000
1840	Floor bracket for wire tightening	RCU-25	6-011165-0000
1900	Clamping screw	A70/1	6-011204-PU22
2000	Upper bracket - SMALL	RCU-21	6-011120-0000
2100	SET - tension wire	RCU-23	6-011122-0000
2200	Steel wire holder of side guidance	RR 23	6-019918-PU22

Verra Metal



- ▲ Modern design
- ▲ Wide colour range of fabrics used
- ▲ Easy handling and assembly
- ▲ Recommended for shading of large areas (up to 17,5 m²)
- ▲ Variation with traditional or day-night fabric

ISOTRA *Quality*

Standard dimensions Verra – tube 50 – with screen fabric

Fabric	Width (mm)		Height (mm)		Area (m ²)
	min.	max.	min.	max.	max.
Satiné, Satiné Metal	300	3000	300	3200	9,8
Screen Nature	300	3000	300	5500	16,5
SCR 3005	300	3000	300	4100	12,5
Soltis 92	300	3000	300	4000	12,2
Cristal plus 500 3S	300	3000	300	2830	8,4

Verra Metal (2-01134/01135/01136-XXXX)

Fixed pulley	Item name	Abbreviation	Drawing number
10	Steel wire 0,9 mm	A 74/2	6-000181-0000
10	Winding roller dia. 28mm self-adhesive	RTU-28	6-010805-0028
10	Winding roller dia. 42mm self-adhesive	RTU-42	6-010805-0042
10	Mounting profile 25mm WHITE / ELOX	RCUP-25-W / A	6-011127-000W / 000A
10	Mounting profile 42mm WHITE / ELOX	RCUP-42-W / A	6-011125-000W / 000A
10	Tube RTU-50	RTU-50/1	7-303595-0050
10	Bottom rail DAY/NIGHT WHITE / ELOX	DRC-05-W / A	6-011134-000W / 000A
10	Bottom rail DAY/NIGHT WHITE / ELOX – round	DRC-07-W/A	6-015471-000W/000A
10	Bottom tube DAY/NIGHT WHITE / ELOX	DRC-04-W / A	6-011135-000W / 000A
10	Bottom rail profile - fabric cover WHITE / ELOX	RBR/1 9010 / PU52	7-302578-9010 / PU52
120-160	Clip for mounting profile 25 WHITE / GREY	RCU-SC25-W / G	6-011126-000W / 000G
120-160	Clip for mounting profile 42 WHITE / GREY	RCU-SC42-W / G	6-011118-000W / 000G
200	Holder fuse in the mounting profile	RC2044	6-014548-0000
300	Motors (COULISSE) interior roller blinds		2-00721-0000
300	Motors (SOMFY) interior roller blinds		2-00721-0001
300	Motors (ISOTRA BASIC) interior roller blinds		2-01148-0000
301	Metal motor holder	RC3044	6-014764-0000
400	Metal sidewall 28 WHITE / GREY	RC2006-W / GR	6-014562-000W / 00GR
400	Metal sidewall 42 and 50 WHITE / GREY	RC3006-W / GR	6-014567-000W / 00GR
410	Control mechanism metal 28 WHITE / SATIN	RC2010-W / STS	6-014565-000W / 00STS
410	Control mechanism plastic 42 and 50 WHITE / GREY	RC3001-W / GR	6-014553-000W / 00GR
411	Control mechanism metal 42 and 50 WHITE / SATIN	RC3011-W / STS	6-014570-000W / 00STS
412	Sidewall cap metal 28 WHITE / SATIN	RC2011-W / STS	6-014563-000W / 00STS
412	Sidewall cap metal 42 and 50 WHITE / SATIN	RC3012-W / STS	6-014571-000W / 00STS
413	Sidewall cap metal 28 WHITE / SATIN	RC2012-W / STS	6-014564-000W / 00STS
413	Sidewall foot cap metal 42 and 50 WHITE / SATIN	RC3013-W / STS	6-014572-000W / 00STS
414	Sidewall cap plastic 42 and 50 WHITE / GREY	RC3007-W/GR	6-014568-000W/00STS
415	Sidewall foot cap plastic 42 and 50 WHITE / GREY	RC3008-W/GR	6-014569-000W/00STS
420	Pin WHITE / GREY - SET	RC2004-W / GR	6-014547-000W / 00GR
430	End of tube 28 WHITE / GREY	RC2002-W / GR	6-014546-000W / 00GR
430	End of tube 42 WHITE / GREY	RC3005-W / GR	6-014555-000W / 00GR
440	Tube 42 adapter	RC3026	6-014557-0000
600	Spring 1x6 x 410 LEFT	RCSA-410-L	6-008854-0000
600	Spring 1x6 x 410 RIGHT	RCSA-410-P	6-008855-0000
700	Endless rough metal chain	VRO 0311	6-008794-0000
910	Tape for profile RBR 7x0,4 mm	FS2002	6-017814-0000
920	Ensuring ribbon 8x0,4 mm	FS2003	6-017815-0000
1000	Chain connector 9006	IS 28/1 9006	2-01039-9006
1010	Endless Cord Holder (Dragon)	XY 00041	3-02427-0000
1010	Fixed pulley	XY 00036	2-01045-0000
1050	Metal chain connector 4,5mm - satin nickel	VRO 0028	6-008792-0000
1100	Bottom rail RBR profile	RBE-F-TR	6-012454-00TR
1110	Bottom rail RBR profile + accessories	RCU-44-TR	6-012457-00TR
1120	Bottom tube DAY/NIGHT WHITE / ELOX	DRC-09-A/W	6-015472-000A/000W
1120	Cover - SET - DAY/NIGHT WHITE/GREY + COUPLE	DRC-03-W/G	6-011136-XXXX
1130	Pin for RCU-44	RCU-19-TR	6-012458-00TR
1200	Fabric		see Fabric swatch
1300	Tape 10x0,8 with double-sided adhesive tape	FS2004	6-017816-0000
1830	Wall bracket for wire tightening	RCU-24	6-011140-0000
1840	Floor bracket for wire tightening	RCU-25	6-011165-0000
1880	Top holder white**	ZA-085	6-019290-0000
1880	Top holder white*	ZA-084	6-019210-0000
1890	Tension angle 25 mm weiss*	ZA-083	6-017593-0001
1900	Clamping screw	A70/1	6-011204-PU22
2000	Upper bracket - SMALL	RCU-21	6-011120-0000
2100	SET - tension wire	RCU-23	6-011122-0000
2200	Steel wire holder of side guidance	RR 23	6-019918-PU22

*only for Verru metal tube 42.50, not applicable for D/N fabric

** only for Verra metal pipe 28, does not apply to T/N fabric

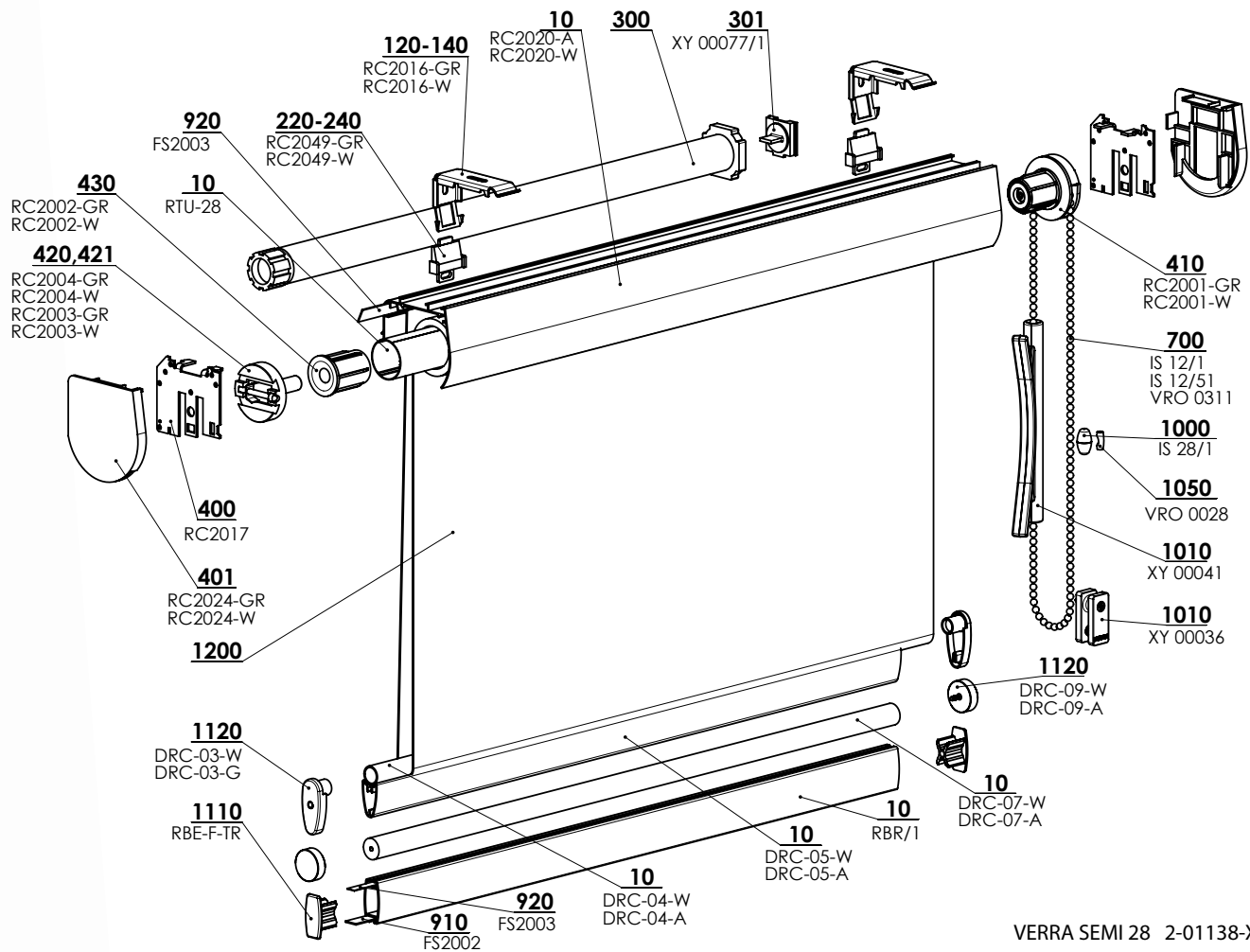


- ▲ Modern design,
- ▲ Supporting and control elements do not interfere with the interior design,
- ▲ Wide range of colours of the fabrics,
- ▲ Variation with traditional or day-night fabric,
- ▲ Easy handling and assembly.

ISOTRA *Quality*

Verra Semi

Basic Product Specification



VERRA SEMI 28 2-01138-XXXX-D

Specification

Verra semi - tube, diameter 28 mm

Control: metal chain Ø 4,5 mm, white plastic chain Ø 4,5 mm, motor

LENGTH OF THE CONTROL: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant.

For the day-night version, the chain is supplied in an "endless", so called loop design.

Plastic chain: colour: white or gray

Metal chain: colour: satin nickel

	Assembly profile (with clap)	Lower profile	Lower profile (day-night)*		Assembly
Commercial name	DRC-02	RBR/1 9010, RBR/1 PU52	DRC-05-W+	DRC-07 + DRC	before window aperture (wall) in window aperture (ceiling)
Dimension (mm)	67x57	15x30	DRC 04	09	
Material	Al	Al	39x17	Ø 15	
Color	RAL 9003 white elox	RAL 9003 white elox	RAL 9003 white elox		

Covers for profile RBR/1 in transparent color. Profile is possible to cover by fabric.

Due to the development of the product, it is possible to adapt the product.

* for fabric Rhodos - only bottom rail DRC07

Standard dimensions of the Verra Semi roller blind

Fabric		VERRA SEMI, TUBE 28				
		Width (mm)		Height (mm)		Area (m ²)
Weight (g/m ²)	Thickness (mm)	min.	max.	min.	max.	max.
up to 170	up to 0,3	300	2000	300	5000	6
	up to 0,5	300	2000	300	3600	6
	up to 0,7	300	2000	300	2600	6
171 - 260	up to 0,3	300	2000	300	5000	4,4
	up to 0,5	300	2000	300	3600	4,4
	up to 0,7	300	2000	300	2600	4,4
261 - 365	up to 0,5	300	2000	300	3600	3,2
over 365	up to 0,5	300	2000	300	3600	3
Corfu		300	2000	300	2800	5,3
Cyprus		300	2000	300	1700	3,4
Parga		300	2000	300	5000	8,6
Rhodos		300	2000	300	2300	4,6
Zakynthos		300	2000	300	3000	4,8

* For motor operation the minimum width is 500mm.

Verra Semi (2-01138-XXXX)

Position	Item name	Abbreviation	Drawing number
10	Winding roller dia. 28mm - self adhesive	RTU-28	6-010805-0028
10	Semi-cassette 28 WHITE / ELOX	RC2020 - W / A	6-014577-000W / 000A
10	Bottom rail profile - fabric cover WHITE / ELOX	RBR/1 9010 / PU52	7-302578-9010 / PU52
10	Bottom rail profile DAY/NIGHT WHITE / ELOX	DRC-05-W / A	6-011134-000W / 000A
10	Bottom rail DAY/NIGHT WHITE / ELOX – round	DRC-07-W/A	6-015471-000W/000A
10	Bottom tube DAY/NIGHT WHITE / ELOX	DRC-04-W / A	6-011135-000W / A
120-140	Half-cassette clip WHITE / GREY	RC2016-W / GR	6-014574-000W / 00GR
220-240	Clip fuse WHITE / GREY	RC2049-W / GR	6-014578-000W / 00GR
300	Motors (ISOTRA BASIC) for interior roller blinds		2-01148-0000
301	ISOTRA BASIC Motor holder	XY 00077/1	3-03164-0000
400	Metal holder for cassette 28 with screws - SET	RC2017	6-014575-0000
401	Cap of semi cassette 28 WHITE / GREY - COUPLE	RC2024-W / GR	6-014576-000W / 00GR
410	Control mechanism 28 plastic WHITE / SATEEN	RC2001-W / GR	6-014545-000W / 00GR
420	Adjustable bolt + carrier WHITE / GREY - SET	RC2004-W / GR	6-014547-000W / 00GR
421	Fixed bolt + carrier WHITE / GREY	RC2003-W / GR	6-014806-000W / 00GR
430	Tube end 28 WHITE / GREY	RC2002-W / GR	6-014546-000W / 00GR
700	Rough control chain (4,5x6 mm)	IS 12/1	6-000962-XXXX
700	Metal control chain (4,45x6,15 mm)	VRO 0311	6-008794-0000
700	Rough endless chain (interior blinds)	IS 12/51	2-00608-0003
910	Tape for profile RBR 7x0,4 mm	FS2002	6-017814-0000
920	Ensuring ribbon 8x0,4 mm	FS2003	6-017815-0000
1000	Chain connector 9006/9010	IS 28/1 9006/9010	2-01039-XXXX
1010	Fixed pulley	XY 00036	2-01045-0000
1010	Endless Cord Holder (Dragon)	XY 00041	3-02427-0000
1050	Metal chain connector 4,5mm	VRO 0028	6-008792-0000
1110	Cap for bottom rail RBR	RBE-F-TR	6-012454-00TR
1120	Bottom tube DAY/NIGHT WHITE / ELOX	DRC-09-A/W	6-015472-000A/000W
1120	Cover - SET - DAY/NIGHT WHITE/GREY + COUPLE	DRC-03-W/GR	6-011136-000W / 00GR
1200	Fabric		see Fabric swatch

Control – motors

COULISSE motors

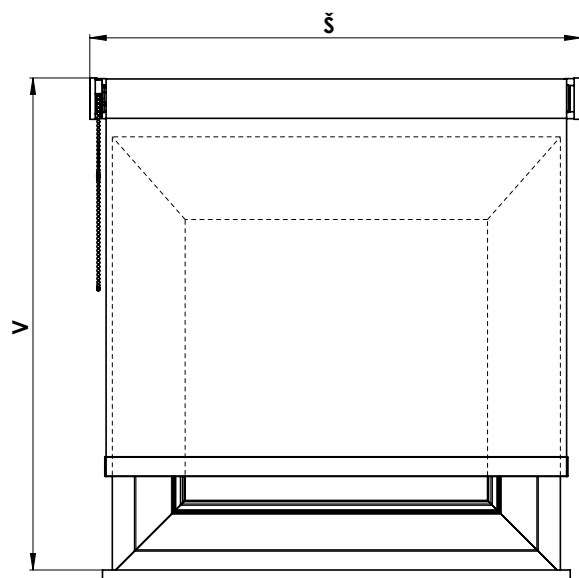
Position	Item name	Abbreviation	Drawing number
10	Tubular motor 6 Nm 28 rpm 230 V – for switch	CM-09-MC	6-015870-0000
11	Tubular motor 6 Nm 28 rpm 230 V – radio-controlled	CM-09-C	6-015869-0000
20	Drive plug Silent 42 mm	RC3221-G	6-020115-0000

SOMFY motors

Position	Item name	Abbreviation	Drawing number
201	Motor SONESSE 40 io 6/20	X.1003226	6-016718-0006
203	Motor SONESSE2 40 Zigbee Li-ion 4/20	X.1245994	6-019582-0004
210	Drive plug Silent 42 mm	RC3221-G	6-020115-0000
220	Universal adapter holder for Somfy motors	RC2046-ABC	6-015944-0000
230	Adapter Somfy AC / Coulisse 42–50–65–80 mm	RC3044-ABC	6-016040-0000

Verra, Verra Metal, Verra Semi Interior roller blind

1. MEASUREMENT



The blind can be positioned into or in front of the hole (on the ceiling or the wall).

THE WIDTH AND HEIGHT ARE MEASURED IN THE FOLLOWING MANNER:

Š.... (width)

a) fitting into the hole

The real width of the hole is measured, the value less than 5 mm than the real width of the hole is recorded in the order sheet.

b) fixation on the hole

The width greater than the real width of the hole by 200 mm is written into the order sheet.

c) Brackets without drilling - Please note that the width of the blind is not the same as the width of the fabric, a deduction must be made to calculate the actual width of the fabric, see table below. When using roller blinds with guides, 10mm should be subtracted from the height of the blind due to the tension angle.

V (height)

The total height, including the upper profile, is measured.

Control length: Unless stated in the order otherwise, 2/3 of the height of the blind is selected as the standard variant.

The control length is equal to the desired height of roller blind for day-night fabrics.

Informative:

Calculation of the actual fabric width versus the total width of the roller blind:

	Verra	Verra with fabric day-night	Verra Metal	Verra Metal motor	Verra Semi	Verra Semi with fabric day-night
tube 28	width – 39 mm	width – 46 mm	width – 46 mm	width – 46 mm	width – 39 mm	width – 46 mm
tube 42	width – 41 mm	width – 48 mm	width – 48 mm	width – 52 mm	-	-
tube 50	width – 41 mm	width – 48 mm	width – 48 mm	width – 52 mm	-	-

2. ASSEMBLY

Assemble exactly according to this manual to prevent redundant assembly errors and other related problems.

AIDS FOR ASSEMBLY:

- tape measure
- spirit level
- electric drill as per the source material
- cordless electric drill
- magnetic adapter, bits PZ2
- hammer
- screws, dowels

INSPECTION:

- Before assembly we recommend inspecting all the parts after the delivery of the goods to prevent any problems. Any defects or comments concerning the assembly or blinds must be notified to the manufacturer.
- ASSEMBLY
- Check that the dimensions of the blind correspond to the width of the hole.
- Mark the place for the fixation of the side assembly consoles of the plastic parts of the blind (two anchoring places per one part).
- Attach the side brackets by connecting elements and firmly tighten so that the outer distance between the brackets is the required width of the roller blind.
- To the assembled brackets on the side without the control mechanism, insert the tube pin of the roller blind (for Verra with marking plastic, for Verra Metal with marking metal).
- Insert the tube with the fabric aside without the control mechanism on the inserted pin, and then insert the side with control mechanism into the bracket before we hear the click (be careful about the metal / plastic orientation).
- Fit the bracket caps depending on the roller blind type (Verra – plastic cap, Verra Metal – metal cap).
- Set the lower end position using the second chain joint.
- Check the roller blind function and the brake operation.

Note: When installing VERRY metal roller shutters without drilling holes, it is important for the full functionality of the window that the minimum distance between the sash and the window casement is at least 65 mm for VERRY metal 28, optimally 70 mm, and at least 85 mm for VERRY metal 42.50, optimally 90 mm. If this distance is not maintained, the window cannot be opened to 90 degrees. Therefore, make sure that this minimum dimension is maintained during installation to ensure maximum functionality of the window.

ASSEMBLY WITH THE MOUNTING PROFILE:

For the Verra and Verra Metal roller blinds with the mounting profile, the roller blind is delivered in assembled condition from the producer. During the actual assembly, it is only necessary to place mounting clips (into which the roller blind itself clicks) on the wall or ceiling, at the proper distance, into which the roller blind itself clicks. After that, it is only left to check the lower end position and the total functionality of the roller blind.

ATTENTION!

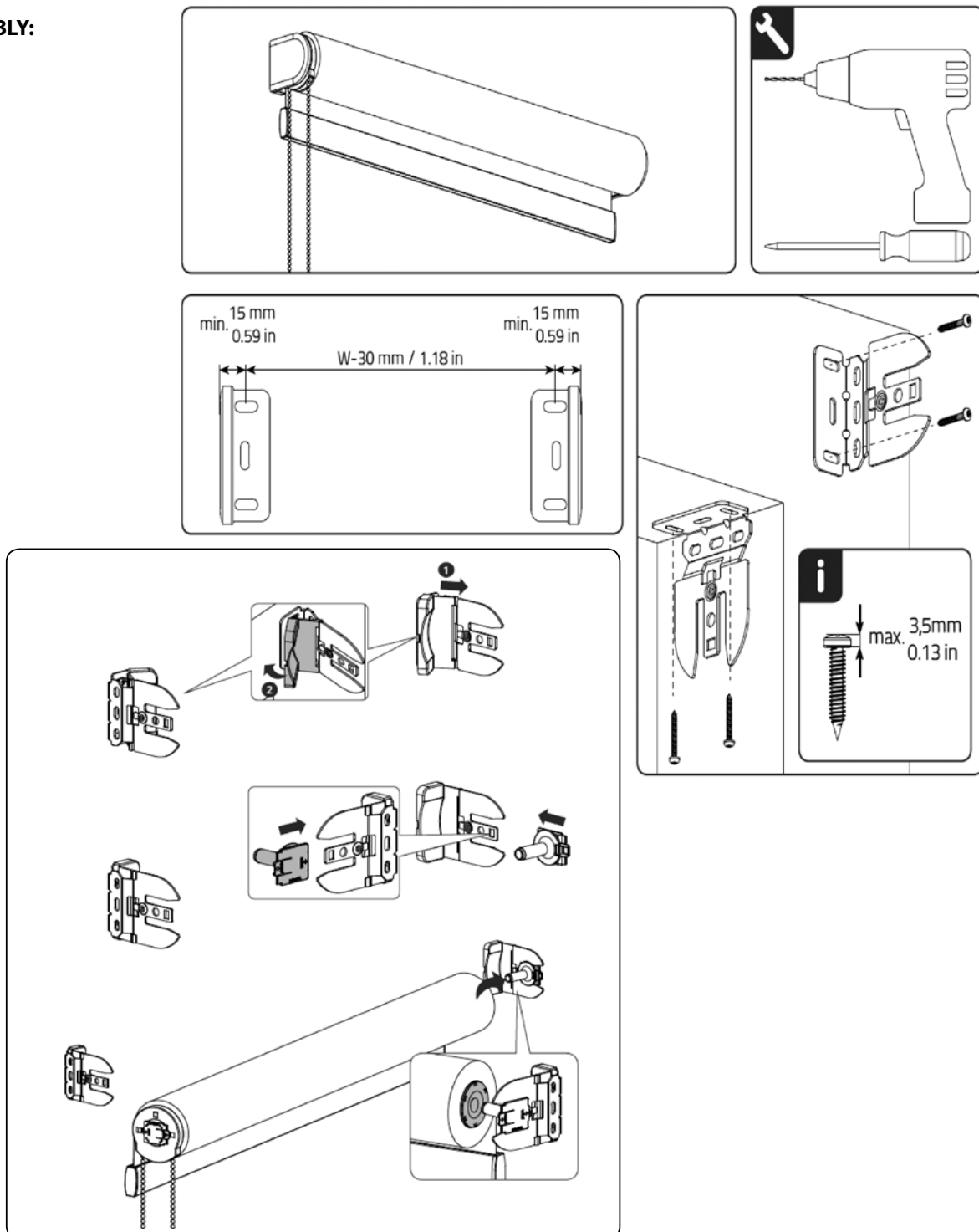
FOR VERRA METAL ROLLER BLIND WITH FABRIC DAY-NIGHT THE ROLLER BLIND IS PROVIDED WITH THE MOUNTING PROFILE WITH THE MOUNTING CLIPS.

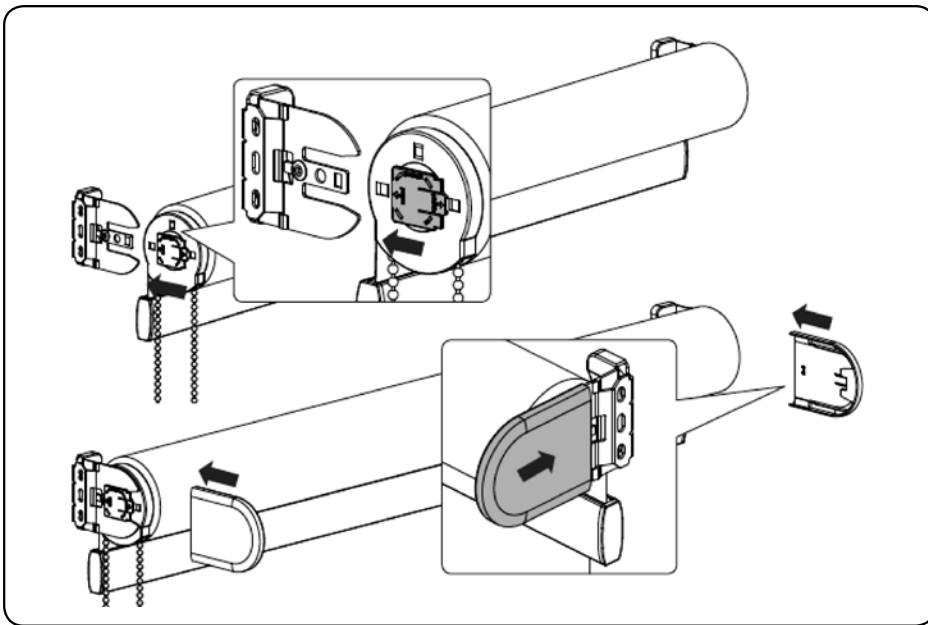
NUMBER OF THE CLIPS:

Roller blind width (mm)	Clips number (pc)
0 – 900	2
900 – 1600	3
1600 - 2200	4

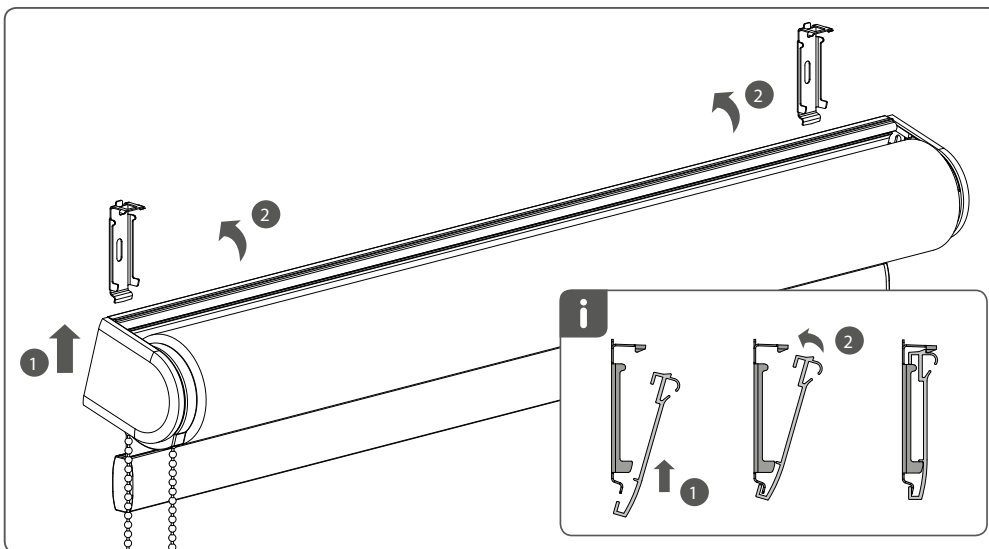
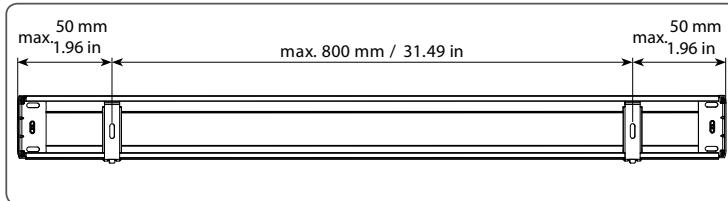
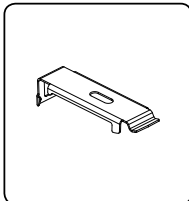
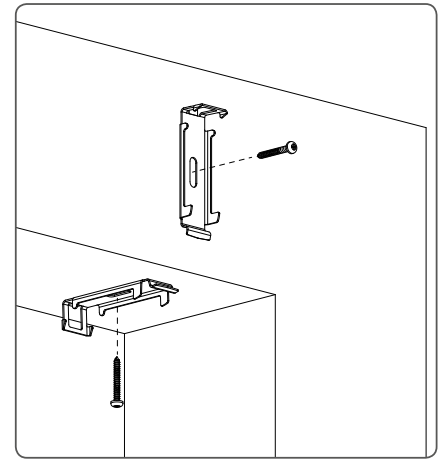
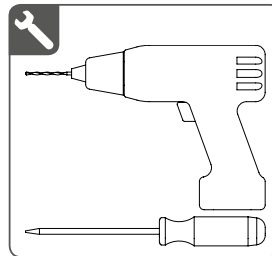
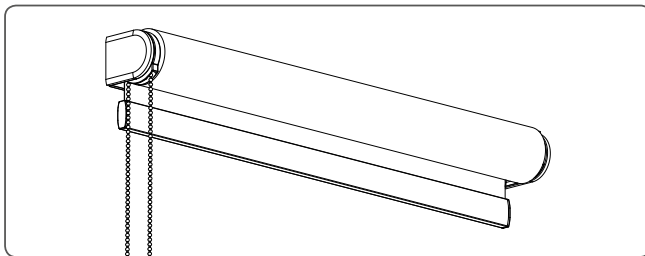
The first clip must be always placed at a distance 40 – 50 mm from the edge of the roller blind.

ASSEMBLY:

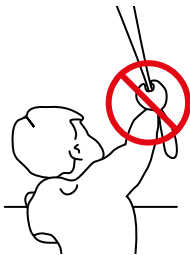
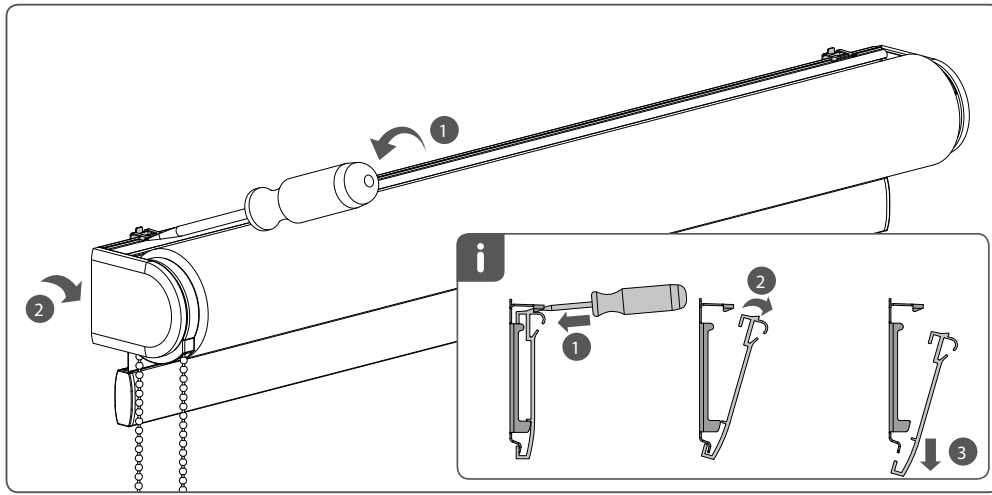




ASSEMBLY WITH THE MOUNTING PROFILE:



DISASSEMBLY:



ATTENTION!!!

Pursuant to the EN 13120:2014 standard, window blinds shall be installed in accordance with the following instructions:

In the case of a disintegrating coupling, the chain length must be limited as follows.

- 1) If assembly height (H0) is not specified, the chain length (H2) shall be less than or equal to 2/3 of the blind height (see Fig. 1): $H2 \leq 2/3 H$.
- 2) If assembly height (H0) is specified, the distance from the floor to the bottom part of the pull cord (H1) shall be at least 0.6 m: $H1 > 0.6 \text{ m}$.

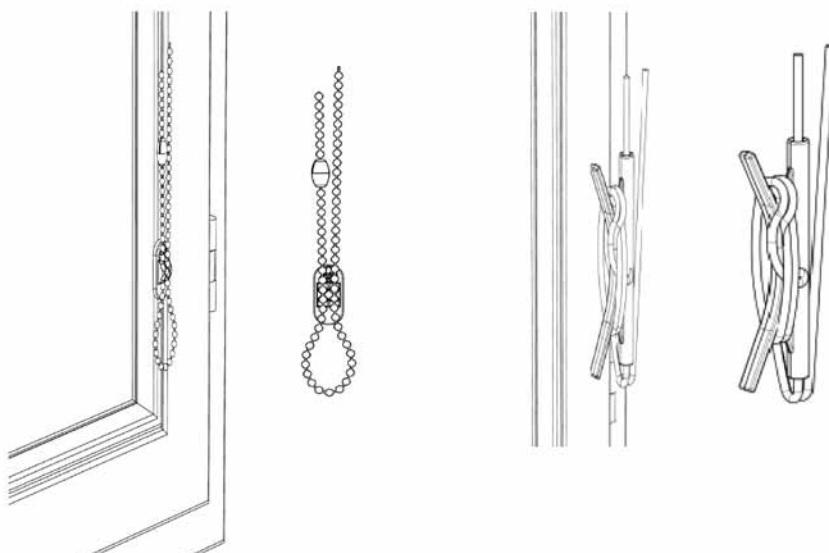
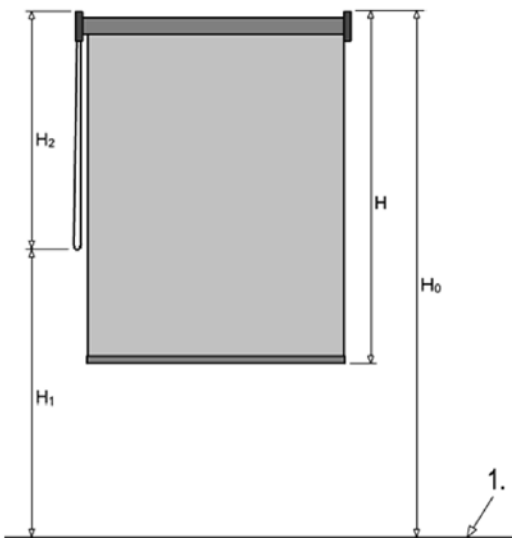
A dangerous loop must be eliminated when a mass of 6 kg is applied or within 5 seconds of application.

For the day-night version, the chain is supplied in an „endless“, so called loop design.

Plastic chain: colour: white or gray, height: 0.5; 0.75; 1.0; 1.25; 1.5; 1.75; 2.0

Metal chain: colour: white or gray, height: 0.5; 0.75; 1.0; 1.25; 1.5; 1.75; 2.0; 2.5; 3.0; 3.5

For Verra metal, the chain is only metal.



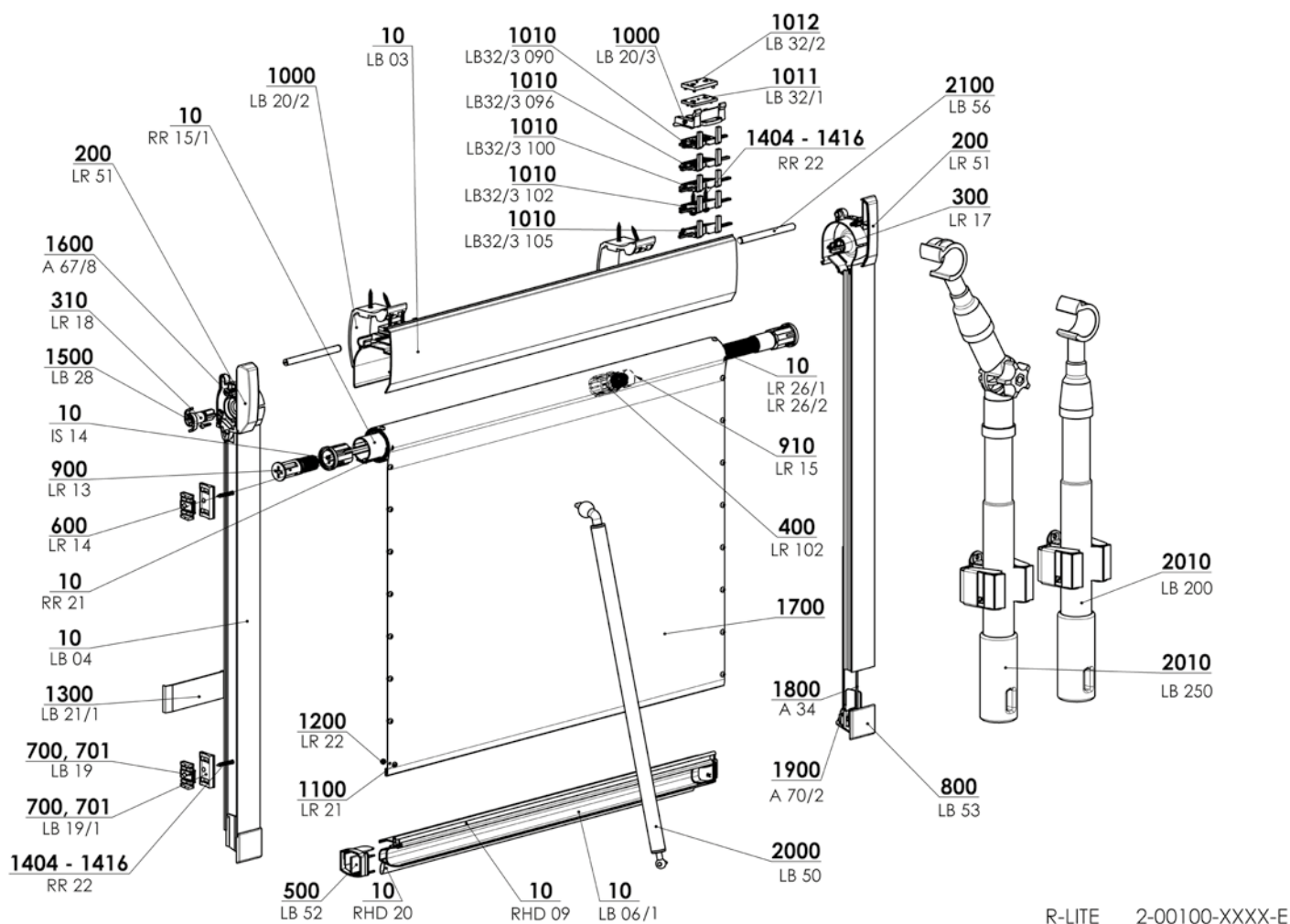


- ▲ Perfect interior shading
- ▲ Applicable to all skylight types
- ▲ Guiding rails prevent light penetration at the window sides
- ▲ Profiles and guiding rails made of anodized aluminum or in white color
- ▲ Easy control with a wand for windows difficult to access

ISOTRA *Quality*

R-Lite Interior Roller Blind

Basic Product Specification



R-LITE 2-00100-XXXX-E

Manual Control

Pulling the roller blind up and down by gripping the bottom rail. The roller blinds on high windows are controlled with a wand.

Fixed wand:




Standard: 50 cm, 100 cm, 150 cm, 200 cm

Color: elox

Telescopic wand with hook / with joint and hook:

Color: grey with black components

Specification

	Head rail	Bottom rail	Guiding rail	Brake	Assembly
Commercial Name	LB 03	LB 06/1	LB 04		
Dimension (mm)	48,8 x 65,3 x 1,2	30 x 24 x 1	29,7 x 26,5 x 1	Ø 1.4 mm cord used as a brake	in skylight wing
Material	Al	Al	Al		
					
Color	Standard: elox	Extra Charges: RAL 9003 white		white	

Plastic components in the RAL 7040 color, RAL 9003.

Due to the development of the product, it is possible to adapt the product.

Standard dimensions

Width (mm)		Height (mm)		Guaranteed area (m ²)
min.	max.	min.	max.	max.
300	1200	300	1450	1,7

We do not make atypical designs.

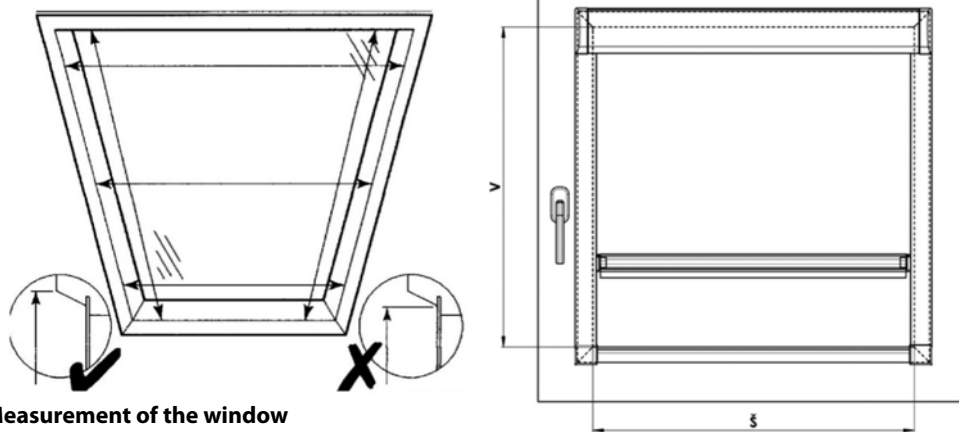
For fabric's type Blackout is max. height 1300 mm.

R-Lite (2-00100-0000)

Position	Item name	Abbreviation	Drawing number
10	Head rail	LB 03	7-300657-PU52
10	Bottom rail	LB 06/1	7-304624-PU52
10	Side guide channel	LB 04	7-300658-PU52
10	Tube	RR 15/1	7-300245-0000
10	Sealing profile	RHD 20	6-001298-0000
10	Plastic tape 6mm	RHD 09	6-001294-0000
10	Spring left l=600/1	LR 26/1	7-301204-00001
10	Spring left l=600/1,3	LR 26/2	7-301254-0000
10	Tilt rod - triangular	IS 14	7-300050-0000
10	Adhesive tape, double	RR 21	6-001310-0000
200	Board R + L	LR 51	2-00389-7040
300	Roller-blind pin - right	LR 17	3-00609-0000
310	Roller-blind pin - left	LR 18	3-00610-0000
400	Screw	LR 102	3-01203-0000
500	Bottom rail cover R + L	LB 52	2-00387-7040
600	Case	LR 14	3-00650-0000
700, 701	Side guide pad	LB 19/1	3-01425-7040
700, 701	Side guide pad - universal	LB 19	3-00603-0000
800	Side guide channel cover R+L	LB 53	2-00386-7040
900	Spring pin	LR 13	3-00608-0000
910	Shring tubing, black Ø19/Ø9,5	LR 15	6-010997-0002
1000	Clip	LB 20/2	3-01424-7040
1000	Clip	LB 20/3	3-02693-0000
1010	Pad 100°	LB 32/3 100	3-02693-0000
114	Pad 102°	LB 32/3 102	3-02697-0000
1010	Pad 105°	LB 32/3 105	3-02698-0000
1010	Pad 90°	LB 32/3 090	3-02694-0000
1010	Pad 96°	LB 32/3 096	3-01238-0000
1011	Pad 2 mm	LB 32/1	3-01436-0000
1012	Pad 3 mm	LB 32/2	3-01437-0000
1100	Plastic pin - body	LR 21	3-00620-0000
1200	Plastic pin - cartridge	LR 22	3-00621-0000
1300	Assembly template	LB 21/1	3-01426-7040
1404-1416	Screw 3x20 Zn	RR 22	6-001312-0000
1500	Screw KB 22x10	LB 28	6-000054-0000
1600	Screw 3,5x13 Zn	A 67/8	6-003146-0000
1700	Fabric		see Fabric swatch
1800	Cord 1,4	A 34	6-000153-5000
1900	Clamping screw	A 70/2	2-00399-0000
2000	Control rod	LB 50	2-00377-xxxx
2010	Telescopic rod - with hook	LB 200	2-00420-0001
2010	Telescopic rod - with hook and joint	LB 250	2-00420-0002
2100	Tightener	LB 56	2-00102-0000

R-Lite Skylight Roller Blinds

Measurement and Assembly Manual



1. Measurement of the window

Take the measurements as indicated in the picture. Measurements are taken at the top of the frame of the window wing, not at the glazed area. If the window has a model label, then it is sufficient to mention in the order form the exact name and model of the roof window. The minimum depth for assembly is 40 mm.

THE WIDTH AND HEIGHT OF THE LIGHT HOLE IN THE WINDOW WING IS MEASURED IN THE FOLLOWING WAY:

Š... (width)

The measurement is from the left top to the right top of the window wing, up in the place of the roller blind fixation. The width of the blind is produced in a precision of millimeters from the width 300 mm up to the width of 1200 mm.

It is recommended to consult with the manufacturer dimensions outside the stated limits.

V (height)

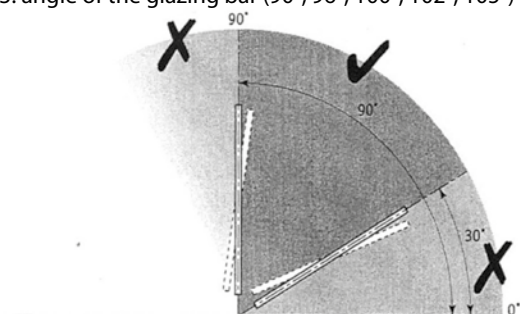
Measurements are taken in the same way as width, from the upper top to the lower top of the window wing and these are written into the order form of the blind.

The height of the blind is produced with a precision of millimeters from the height 300 mm up to the height 1450 mm (For fabric's type Black-out is max. height 1300 mm).

It is recommended to consult with the manufacturer dimensions outside the stated limits, too.

IN THE ORDER FORM, IT IS NECESSARY TO SPECIFY:

1. dimension
2. type of window and identification number of the window
3. angle of the glazing bar (90°, 96°, 100°, 102°, 105°)



ATTENTION!

If the sky light window does not have a model label and there is no possibility to state the angle of the glazing bar, it is necessary to mention in the order form, in addition to the dimensions on the top of the frame, the dimensions for the glass, including the depth of the window frame. The exact angle of the glazing bar of the frame of the roof window can be derived from these parameters.

ATTENTION!!! THE ANGLE OF THE ROOFDECLINATION MUST NOT BE LESS THAN 30° AND MORE THAN 90°.

2. ASSEMBLY

Assemble exactly according to this manual to prevent redundant assembly errors and other related problems.

AIDS FOR ASSEMBLY:

- electric drill
- cross-head screwdriver
- knife, scissors, pliers
- allen key 1,5
- for clip fixation: screw 3x17

CONTROL:

- before assembly we recommend to inspect all of the delivered parts of the goods to prevent any problems. The manufacturer must be notified of any defects or comments concerning the assembly of the blinds.
- never unfold the roller blind before assembly.
- remove all obstacles from the sky light that could prevent the assembly.

ASSEMBLY

- never expand the blind before assembly
- remove all obstacles from the sky light that could prevent the assembly.

FIXATION OF CEILING CLIPS:

- place the angle clip to the upper edge of the window wing in the distance which delimit the clip end stop itself (see picture one).
- screw and then break off the exceeding parts, which defined the assembly depth (for plastic window use fore drilled holes – drill ϕ 2mm).



FIXATION OF THE UPPER PROFILE:

- loose the stretching cords on the roller blind .
- assembly bases of the clip must be pressed to the side boards of the roller blind (see picture two).
- catch the upper profile and slip it frontally on the angle ceiling clips to make the end stop click (see picture three).



GUIDING CHANNELS ASSEMBLY:

- insert the guiding channels under the upper profile, align them with the edge of the frame and screw them.
- pay attention that the stretching cords are not between the guiding channels and the window frame.



FIXATION OF THE STRETCHING CORDS:

- clamp the stretching holders located on the ends of cords into the lower ends of the guiding channels.

ADJUSTMENT OF THE ROLLER BLIND BRAKE:

- if necessary, the brake of the blind can be adjusted by setting the stretching cords - both of them must be stretched in the same level!!
- adjust the brake by moving the metal roller on the end of the cord. The following rule is always valid: the higher the stretching of the cord, the higher braking of the blind.
- the correctly adjusted brake holds the blind in any position when lifting.
- ATTENTION! - Too much stretching of the leading cords can damage the whole roller blind breaking system.
- cut off the excess cord ends.



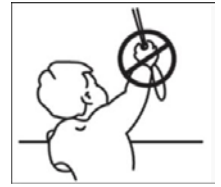
COMPLETION:

- lower the blind by catching the lower bar into the lower part of the window and check the functionality.
- the blind is ready for good use.

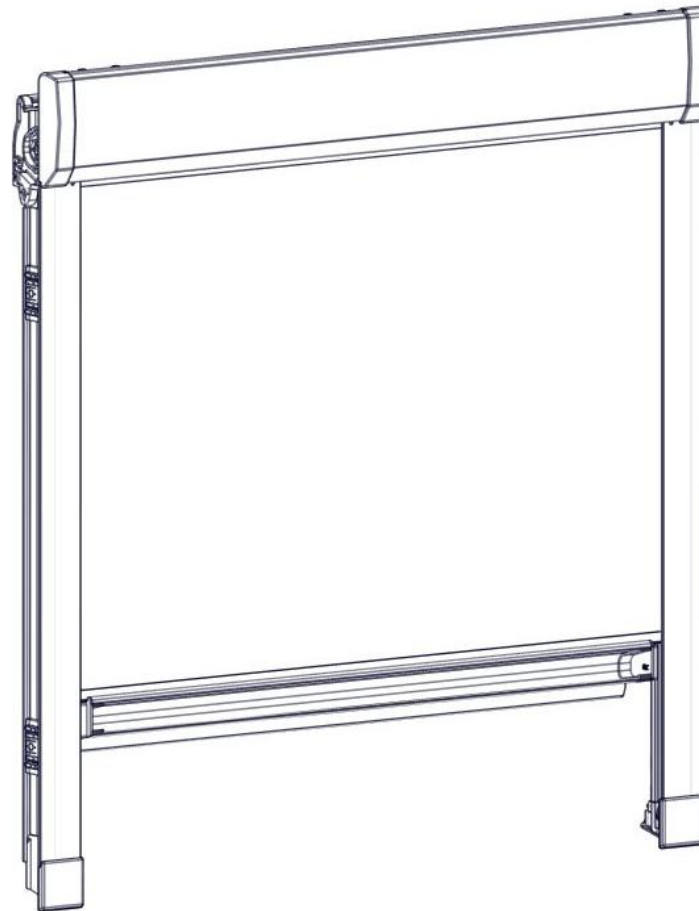
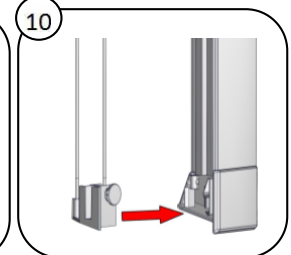
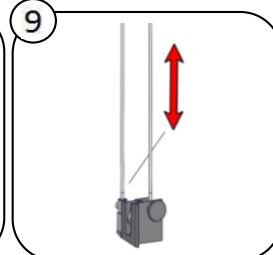
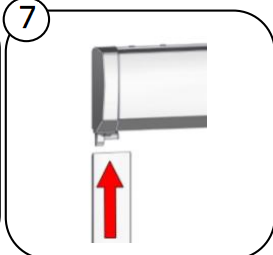
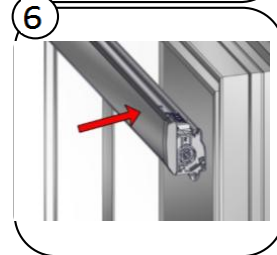
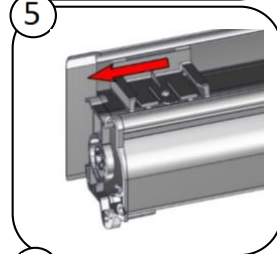
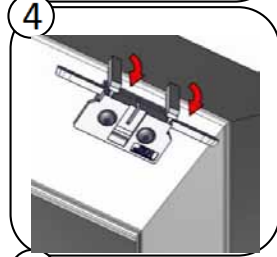
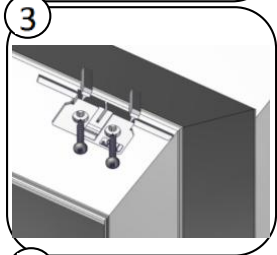
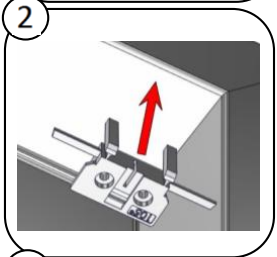


R-Lite Skylight Roller Blinds

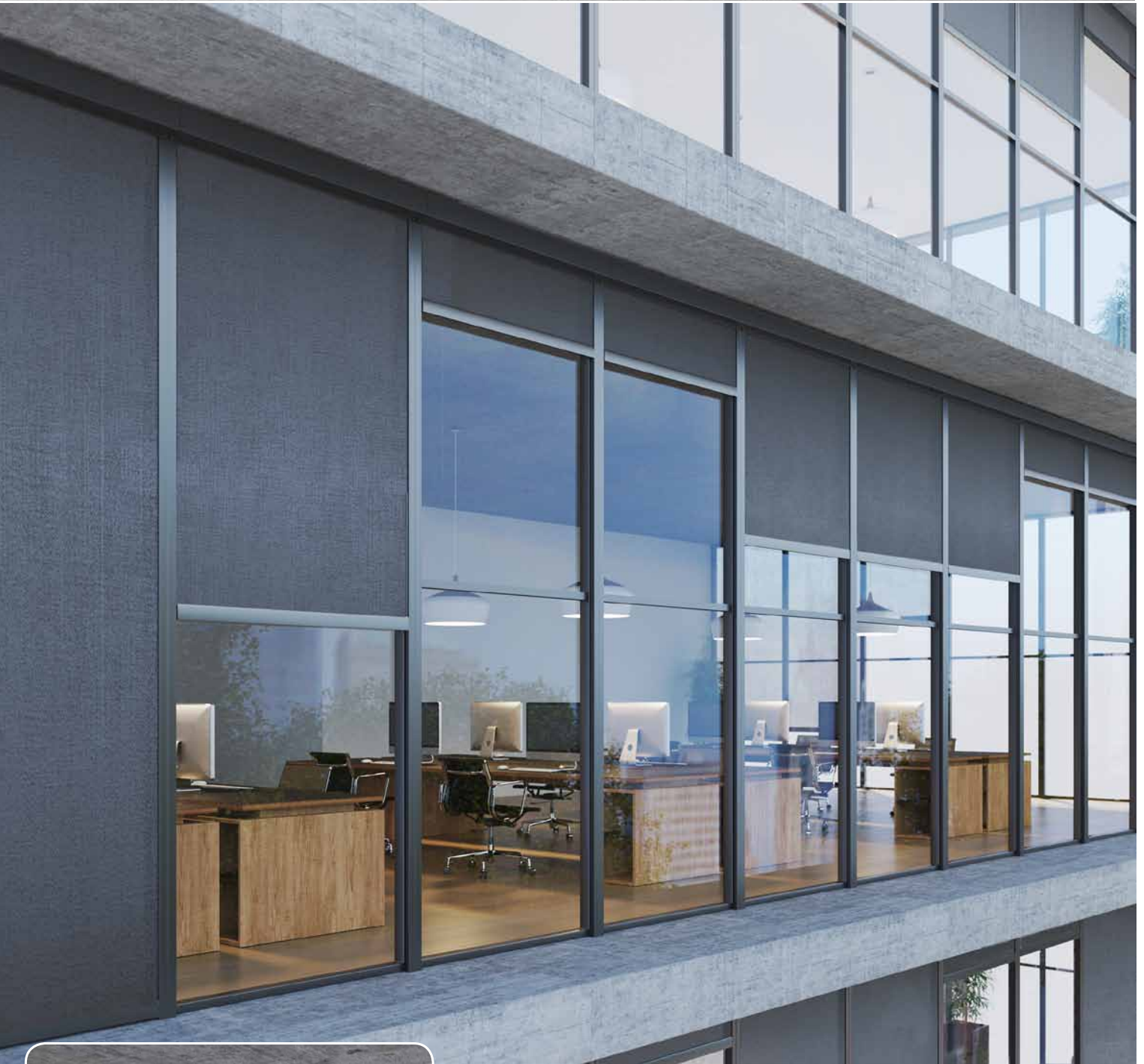
Measurement and Assembly Manual



The roller blind is installed in agreement with safety elements of the norm EN 13120



SCREEN HR8-ZIP INTERIOR BO

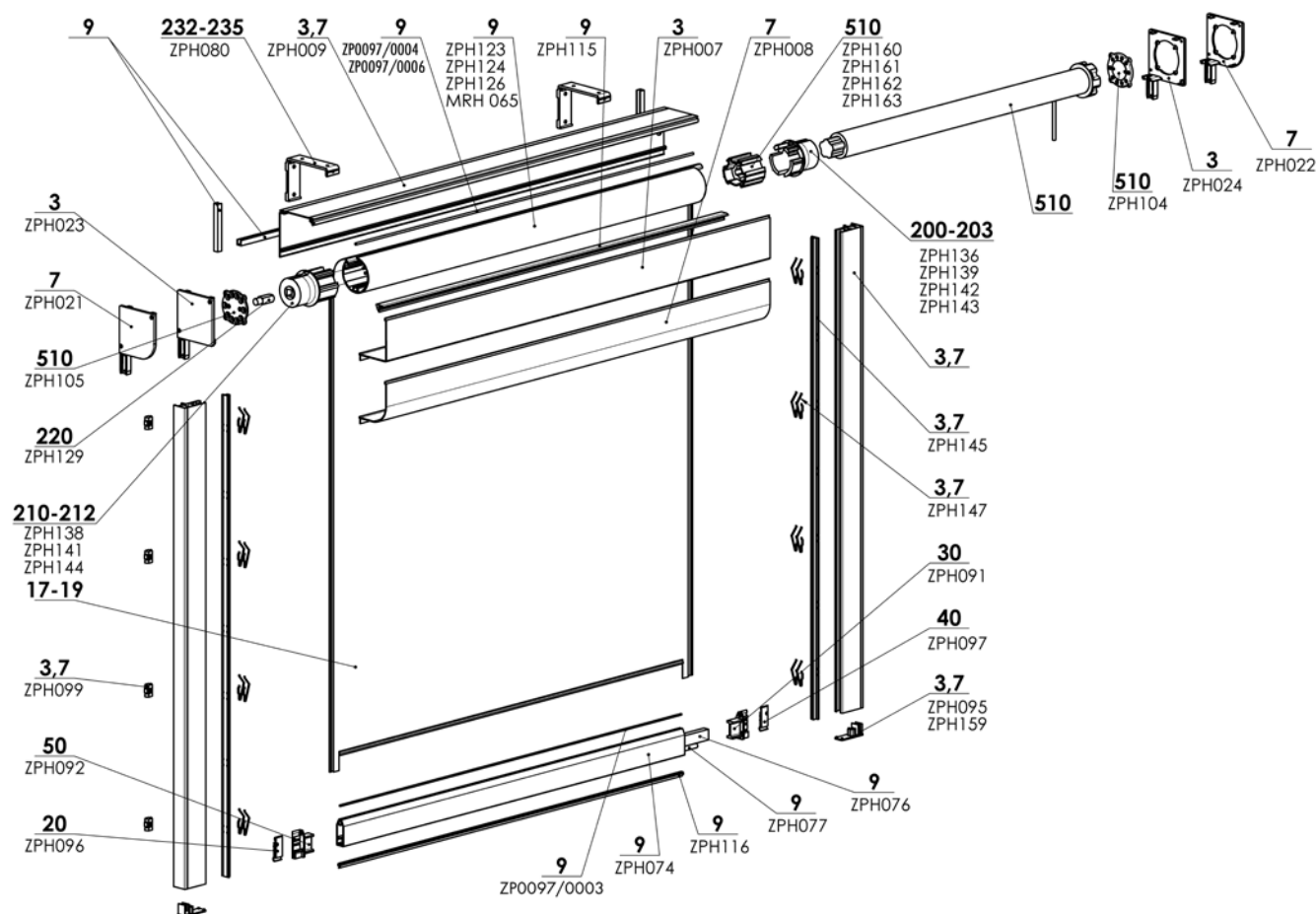


- ▲ Choice of 2 boxes modern designs: square box or rounded box, both types available in 4 sizes,
- ▲ the weighted bottom rail for guiding and tightening the fabric,
- ▲ easy assembling,
- ▲ guaranteed area 18 m²,
- ▲ fabric stays stretched longer thanks to the innovative metal spring zip system,
- ▲ possibility to use interior blackout fabrics designed for interior use.

ISOTRA *Quality*

SCREEN HR8-ZIP INTERIOR BO

Basic Product Specification



2-01330-0110-0

Control

Used for lifting and lowering of screen blinds. There are available 2 types of control for all box sizes:


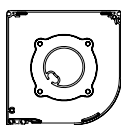
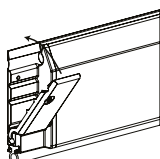
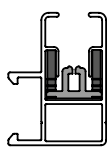
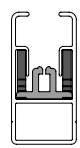
Motor

- only Sunea IO motor can be used for 70x70 box, Altus RTS, Sunea IO and Maestria +50 iO and +50 WT motors (min. 795 mm blind width) can be used for box 90x90 and Altus RTS, Sunea IO, Maestria +50 iO and +50 WT and Geiger Solid Air Line motors can be used for 110x110 and 150x150 boxes.

Handle with loop


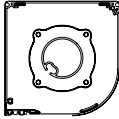
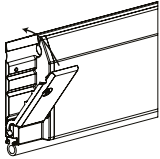
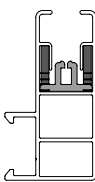
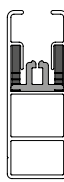
- standard mechanism with self-locking worm and worm wheel, 1: 4 ratio, built-in end stop (prevents incorrect fabric winding).

Specification (for motor)

	Head rail		bottom rail	Side guidance	
	square	rounded	high	guide rail	
Dimension (mm)	70x70, 90x90, 110x110, 150x150	70x70, 90x90, 110x110, 150x150	18x50	30x40	20x40
Material	Al	Al	Al	Al	Al
					
Colour	Standard: RAL 9006 light silver RAL 9006S light silver structure RAL 9007 dark silver RAL 9007S dark silver structure RAL 9010 white RAL 9010M white matte RAL 9010S white structure		RAL 7016M antracite grey matte RAL 7016S antracite grey structure RAL 7016 antracite grey RAL 8014S brown structure RAL 8014M brown matte DB 702 pearl light grey DB 703 pearl dark grey Extra Charges: Other RAL		

*except of plastic parts

Specification (for handle)

	Head rail		Bottom rail	Side guidance	
	square	rounded		guide rail	
Dimension (mm)	70x70, 90x90, 110x110, 150x150	70x70, 90x90, 110x110, 150x150	18x50	30x55	20x55
Material	Al	Al	Al	Al	Al
					
Colour	Standard: RAL 9006 light silver RAL 9007 dark silver RAL 9010 white	RAL 7016 anthracite grey RAL 7016 anthracite grey structure RAL 8014 brown		Extra Charges: Other RAL	

*except of plastic parts

Standard Dimensions

Standard dimensions for box 70

Control	Width (mm)		Height (mm)		Guaranteed area (m ²)
	min.	max.	min.	max.	max.
handle	400	2500	400	1200	3
motor Sunea iO	635	2500	400	1200	3

Standard dimensions for box 90

Control	Width (mm)		Height (mm)		Guaranteed area (m ²)
	min.	max.	min.	max.	max.
handle	400	2800	400	2500	7
motor Altus RTS, Sunea iO, Maestria iO and WT	795	2800	400	2500	7

Standardmaß für Box 110

Control	Width (mm)		Height (mm)		Guaranteed area (m ²)
	min.	max.	min.	max.	max.
handle	400	3500	400	3500	10
motor Altus RTS, Sunea iO, Maestria iO and WT, Geiger	795	3800	400	3500	13

Standard dimensions for box 150

Control	Width (mm)		Height (mm)		Guaranteed area (m ²)
	min.	max.	min.	max.	max.
handle	400	3000	400	5000	12
motor Altus RTS, Sunea iO, Maestria iO and WT, Geiger	795	6000	400	5000	18

SCREEN HR8-ZIP INTERIOR BO (2-01330-XXXX)

position	item name	business name	číslo výkresu
1-8	Screenbox 070 - 150 square or rounded		see Screenbox
9	Profiles		see Profile
19	Fabric for screen (m ²) and interior fabric roller blinds		see swatch of Screen and Fabrics
20	Clamping part slide block high final rail - left black	ZPH096	6-013964-9004
30	Basic part slide block high final rail - right black	ZPH091	6-013963-9004
40	Clamping part slide block high final rail - right black	ZPH097	6-013965-9004
50	Basic part slide block high final rail - left black	ZPH092	6-013962-9004
90	Screw 2,9x9,5	ZPH173	6-014233-0000
100	Screw 2,9x13	51680.029.013	6-014234-0000
110	Screw 3,5x9,5	A 67/18	6-012359-0000
170-172	Mounting bracket		viz strana 27
200	Gudgeon conical 55mm	ZPH136	6-014238-0000
200	Gudgeon conical 67mm	ZPH139	6-013984-0000
200	Gudgeon conical 85mm	ZPH142	6-014236-0000
200	Gudgeon conical 95mm	ZPH143	6-014237-0000
210	Gudgeon conical 55mm with square hole 12mm	ZPH138	6-014243-0000
210	Gudgeon conical 67mm with square hole 12mm	ZPH141	6-013983-0000
221	Axle square 12mm - round 12mm	ZPH127	6-014271-0000
510	Screenmotors (SOMFY)		see Motors control, page 99
520	Manual control SCREEN HR8-ZIP INTERIOR BO		see Manual control, page 98
530	Screenmotors (GEIGER)		see Motors control, page 99
900-910	Guidance - rail/cable - left - right		see Guidance - rail/cable - left - right

Profile (3-03054-PU11)

position	item name	business name	číslo výkresu
5	Profile reinforcement dia. 8mm	ZPH077	6-013966-0000
6	Profile reinforcement 20x12	ZPH076	6-013971-0000
7	High bottom rail	ZPH074	6-014021-0000
8	PVC tube for fabric 3mm	ZPH148	6-014232-0000
11	Rubber for bottom rail	ZPH116	6-013974-0000
19	Roll for fabric dia. 40mm - 6m	ZPH122	6-014229-0000
20	Roll for fabric dia. 55mm - 6m	ZPH123	6-014027-0000
21	Roll for fabric dia. 67mm - 6m	ZPH124	6-013982-0000
22	Roll for fabric dia. 85mm - 7m	MRH 065	6-014230-0000
23	Roll for fabric dia. 95mm - 6m	ZPH126	6-014231-0000
24	Sliding strip for fabric - PVC	ZPH115	6-013986-0000
25	PVC tube for fabric 4mm	ZPH149	6-013987-0000
25	PVC tube for fabric 6,0mm	ZPH169	6-015096-0000
26	Thin-walled Al profile - U, 10x10x1,5		2-01441-PU11
30	Thin-walled Al profile - U, 10x10x1,5		6-011349-0000
31	Double-sided adhesive tape DC 5011 LOHM.	RR 21/1	6-001311-0000

Guidance - rail/cable - left - right (2-01634-PU11L/P)

position	item name	business name	drawing number
10	Guide rail 820,830,829,839		for box 70
11	Guide rail 820,830,829,839		for box 90
12	Guide rail 820,830,829,839		for box 110
13	Guide rail 820,830,829,839		for box 150
15	Guide profile for zip v3	ZPH145	6-014155-0000
20	Spring for guiding profile for zip	ZPH147	6-013992-0000
30	Synthetic clips for guide rail - black	ZPH099	6-013993-0000
40	Screw 4,2x25 DIN 7981	51660.042.025	6-014157-0000
80	ALU endstop guide	ZPH095	6-014441-0000
81	ALU endstop double guide	ZPH127	6-014442-0000
200	Guide rail holder 50mm	ZPH082	6-014549-0000
201	Guide rail holder 60mm	ZPH083	6-014550-0000
202	Guide rail holder 100 mm	ZPH084	6-014552-0000
203	Guide rail holder 130mm	ZPH085	6-014542-0000
210	Screw m4x5 stainless	51340.040.005	6-014559-0000
220	Washer M4	51930.040.001	6-014560-0000
230	Nut M4	51080.040.001	6-014561-0000

Screenbox (2-01330-0110)

position	item name	business name	drawing number
3	Profile BOX 110mm - front part square	ZPH007	6-013978-0000
3	Sidewall 110mm square - RIGHT	ZPH024	6-013977-0000
3	Sidewall 110mm square - LEFT	ZPH023	6-013975-0000
3,7	Profile BOX 110mm - rear part	ZPH009	6-013976-0000
3,7	Clip VL ZIP	ZPH099	6-013993-0000
3,7	Guide profile for zip v3	ZPH145	6-014155-0000
3,7	Spring of zip guide rail	ZPH147	6-013992-0000
3,7	End cap of guide rail	ZPH095	6-014441-0000
3,7	End cap of guide rail - 55 mm	ZPH159	6-014830-9005
7	Sidewall 110mm rounded - LEFT	ZPH021	6-014147-0000
7	Profile BOX 110mm - front part rounded	ZPH008	6-014146-0000
7	Sidewall 110mm rounded - RIGHT	ZPH022	6-014148-0000

Blackout

The SCREEN HR8-ZIP INTERIOR BO blind can be used to completely darken the room in case of projections or presentations, but not for photographing purposes (100% blackout excluded).

To ensure complete blackout, the following should be considered:

- use black-out fabrics
- it is necessary to seal the gap between the guide rails and the wall, for example with silicone,
- the space between the box and the wall should be sealed with a U-profile and silicone
- the rubber or brush on the bottom bar should touch the window sill, but may not fit tightly
- the lower bar keeps the fabric taut

SCREEN HR8-ZIP INTERIOR BO

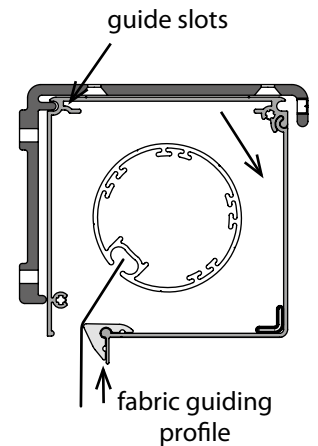
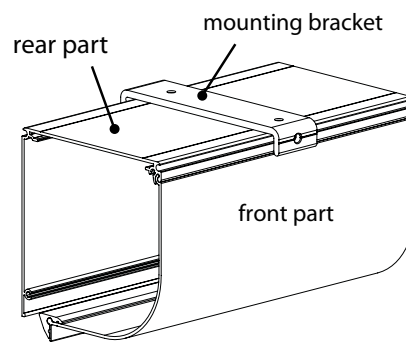
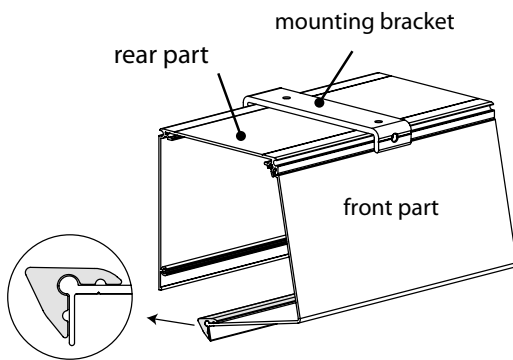
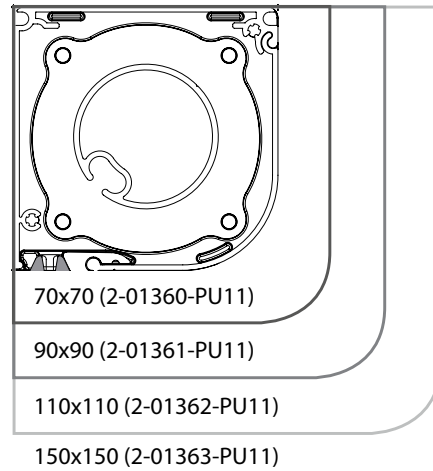
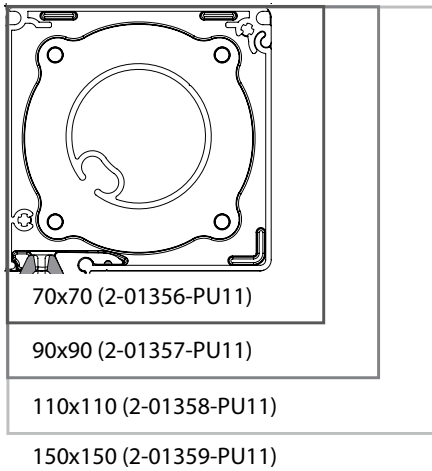
Technical Specification

Head rail - square

(2-01356, 2-01357, 2-01358, 2-01359)

Head rail - rounded

(2-01360, 2-01361, 2-01362, 2-01363)

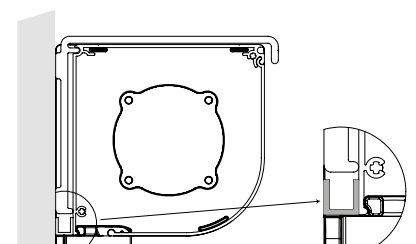


Finishing back side of the screenbox

U-profile width - horizontal

The gap between box and wall can be filled up horizontal with U-profile of 10 x 10 x 10 mm, the length is defined by the box width.

To use with: - mounting bracket

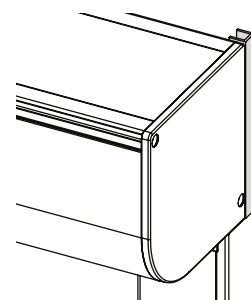


U-profile width - horizontal

U-profile height vertical

The gap between box and wall can be filled up with a U-profile (10x10x10 mm), the length is defined by the box height.

To use with: - mounting brackets



U-profile height - vertical

Mounting bracket - box 70 mm, 90 mm, 110 mm, 150 mm
(6-014340, 6-014341, 6-014342)

Material: extruded aluminium with a powder coating finish
For installation of the box independent from the guides: standard for cable guide

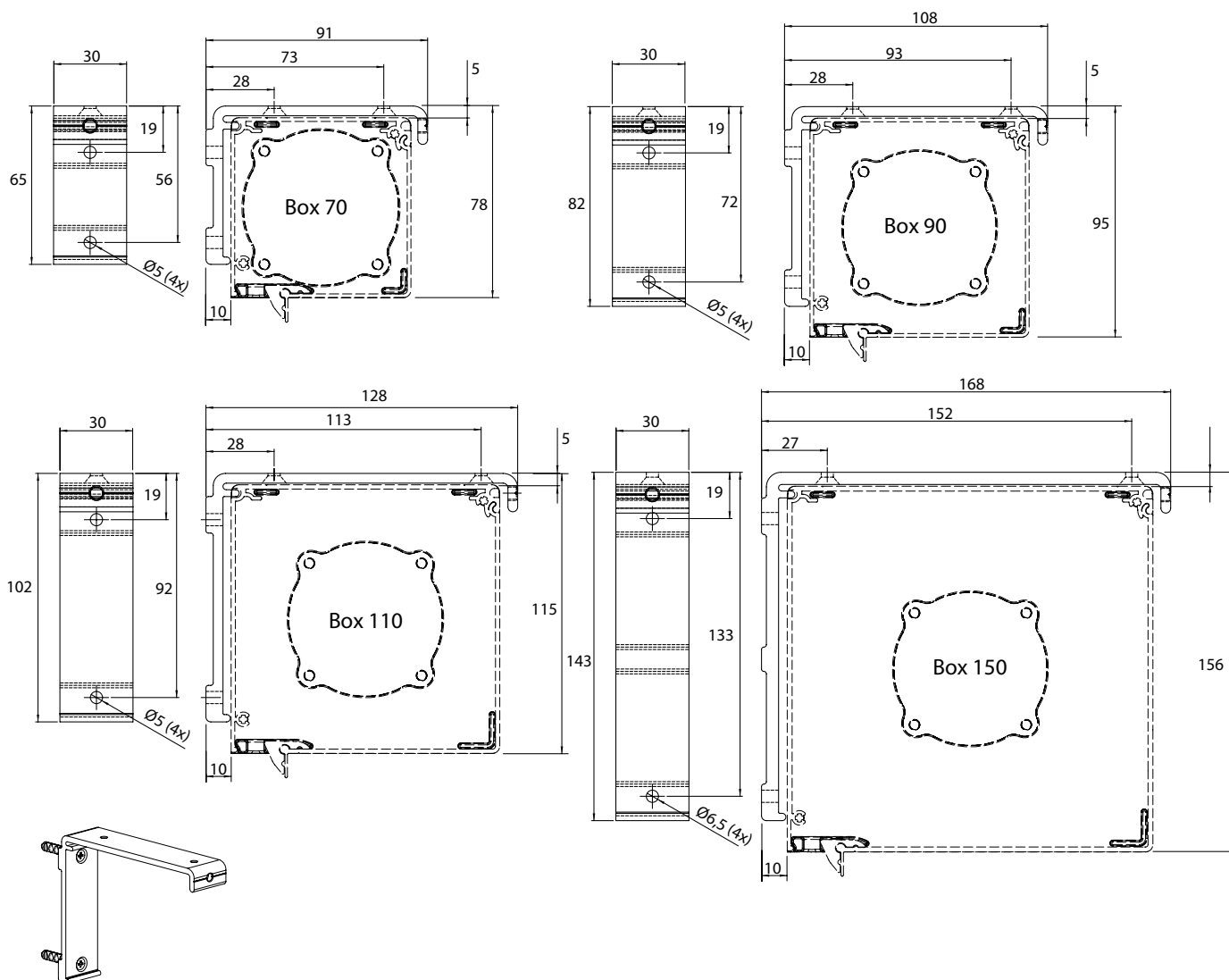
Standard number of mounting brackets:

Screen width (mm)	Box	
	70 - 90	110 - 150
0 - 1500	0 (2*) pc	2 pc
1501 - 3000	3 pc	3 pc
3001 - 4500	4 pc	4 pc
4501 - 5000	5 pc	5 pc

* If specified the mounting bracket in the order form there will be supplied 2 pieces of mounting bracket (up to the width of the roller shutter 1500 mm is the self-supporting roller blind).

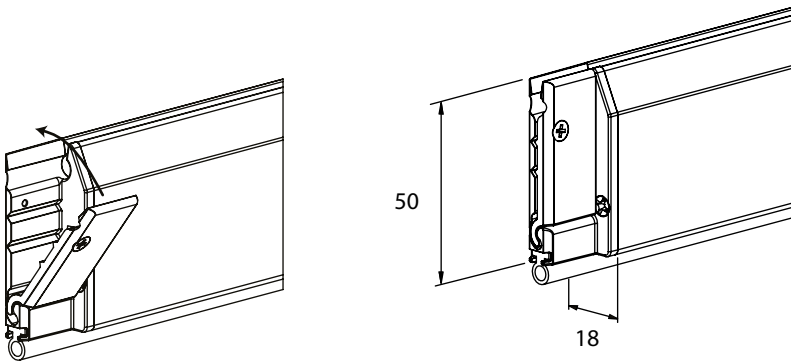
If the mounting bracket is used, we recommend using guide rails of types 829, 839, 828, 838, 865 and 855.

Width: 30 mm
Brings the rear face of the box 10 mm forward for cable guide.



Bottom rail high

(6-014021-0000)

**Material: extruded aluminium profile with:**

- a powder coated finish
- a room for a weighting strip.
- a fabric groove.
- a groove for sealing rubber

Fabric is attached to bottom rail without screws, using a plastic tube \varnothing 3 mm.

Partially concealed in the screen box when fabric is rolled up

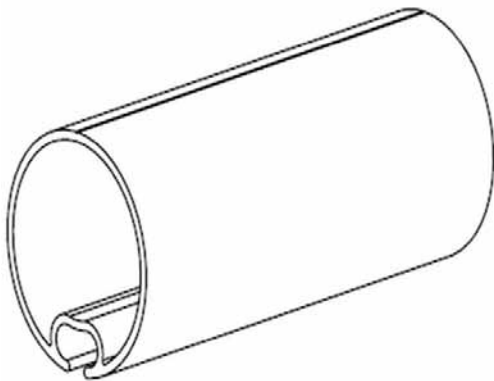
Rubber strip on the bottom rail

Sliding blocks

in 2 parts for a good clamping of the fabric.

Roller tube diameter 40mm – 6m, 55mm – 6m, 67mm – 6m

(6-014229-0000, 6-014027-0000, 6-013982-0000)



Material: Extruded aluminium for tubes (\varnothing 40, \varnothing 55 or \varnothing 67 mm) or zincd steel for tube \varnothing 85 mm and \varnothing 95 mm.

With a fabric groove for attaching the fabric using a plastic tube of \varnothing 4 mm for tube \varnothing 40 mm, \varnothing 55 mm, \varnothing 67 mm and \varnothing 6 mm for tube \varnothing 85 mm.

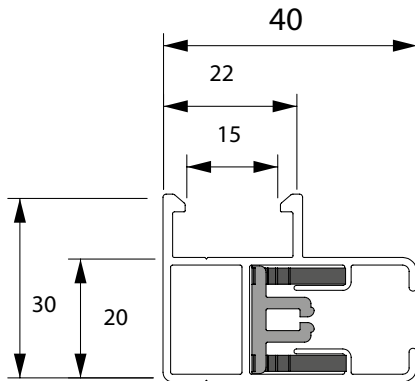
Various types of roller tubes are possible, depending on type of operation, quality of the fabric, and box type: tube \varnothing 40 mm (not for electrical operation), tube \varnothing 55 mm, tube \varnothing 67 mm, tube \varnothing 85 mm or \varnothing 95 mm.

Guide rails for motor

Material: Material: extruded aluminium profiles with a powder coated finish

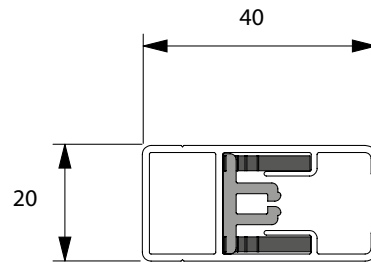
Guide rail 839 (6-014417)

- standard guide for clips attachment or small distance relative to the rear side (10 mm).



Guide rail 830 (6-014418)

- flat guide without attachment clips.

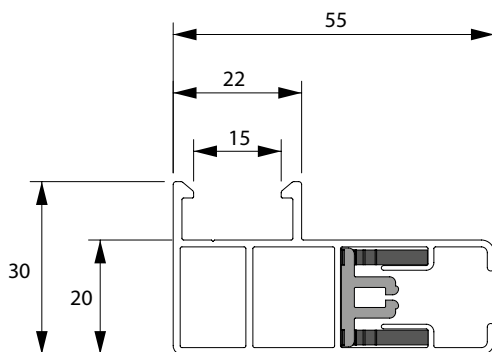


Guide rails for handle

Material: extruded aluminium profiles with a powder coated finish

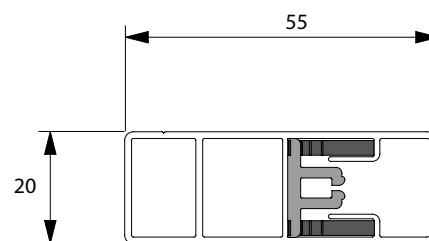
Guide rail 829 (6-013989)

- standard guide for clips attachment or small distance relative to the rear side (10 mm).



Guide rail 820 (6-014152)

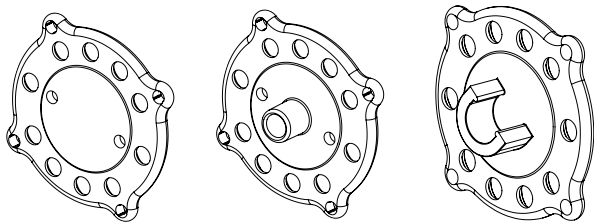
- flat guide without attachment clips.



Consoles

- Basic consoles:** - aluminium consoles with die-casted guide pin (= pin mounting) or
 - die-casted fastening hook (= flange mounting).
 - complete with universal bearing plates in black synthetic material.

Universal bearing plate



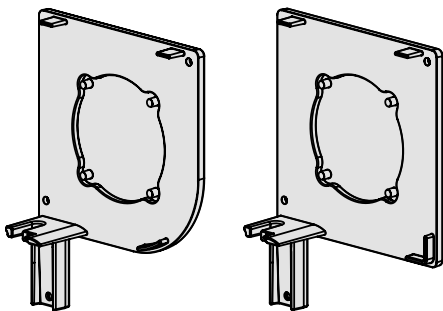
Operating exit

Type of installation	Control	O				A				E/H*				P				S				
		70	90	110	150	70	90	110	150	70	90	110	150	70	90	110	150	70	90	110	150	
A-AE	Motor	x	x	x	x	x	x	x	x	o	o	x	x									
	Handle with eye																					o

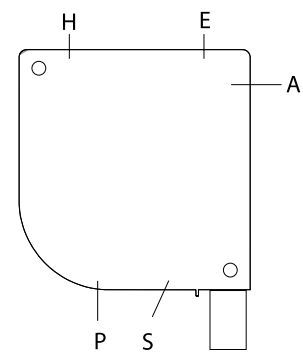
- x Possible
- x Only possible with square boxes
- Usage of small handle with eye
- Usage of big handle with eye
- E/H* To use under overhang or inside because of water penetration.
- o not possible

Ping guide assembly

basic console



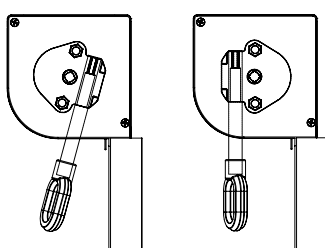
Operating exits for motor



Outside operation

- Standard: - Handle operation with eye, removable handle with laying hook; length 1500 mm
 Option: - other handle lengths are possible at extra cost
 Attention: ensure sufficient space on the side (± 10 mm) due to hook rotation in the eye.

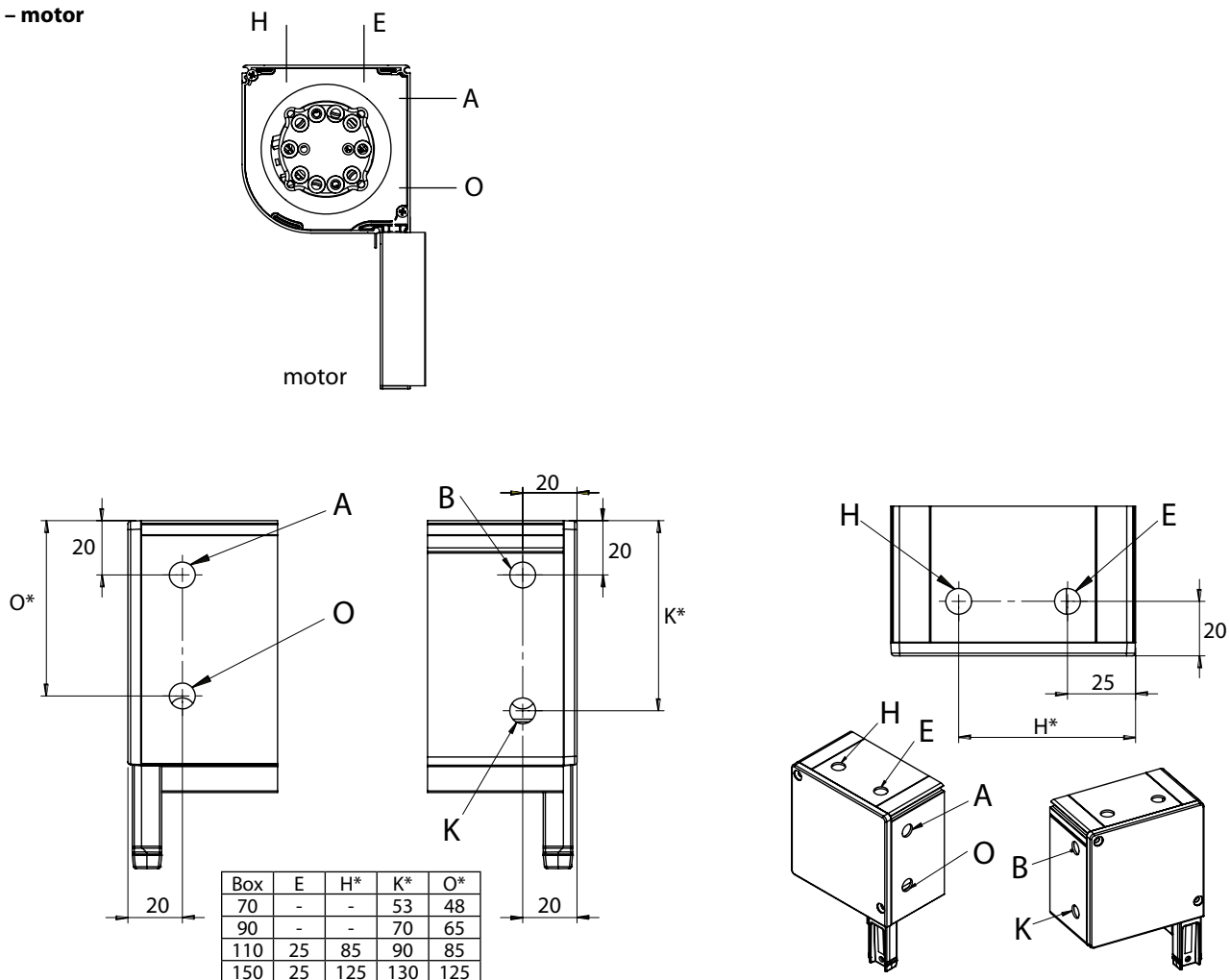
Operating exit for handle



handle + eye exit S

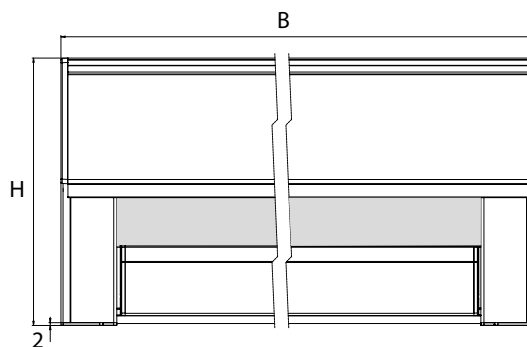
handle + eye exit P

Control – motor



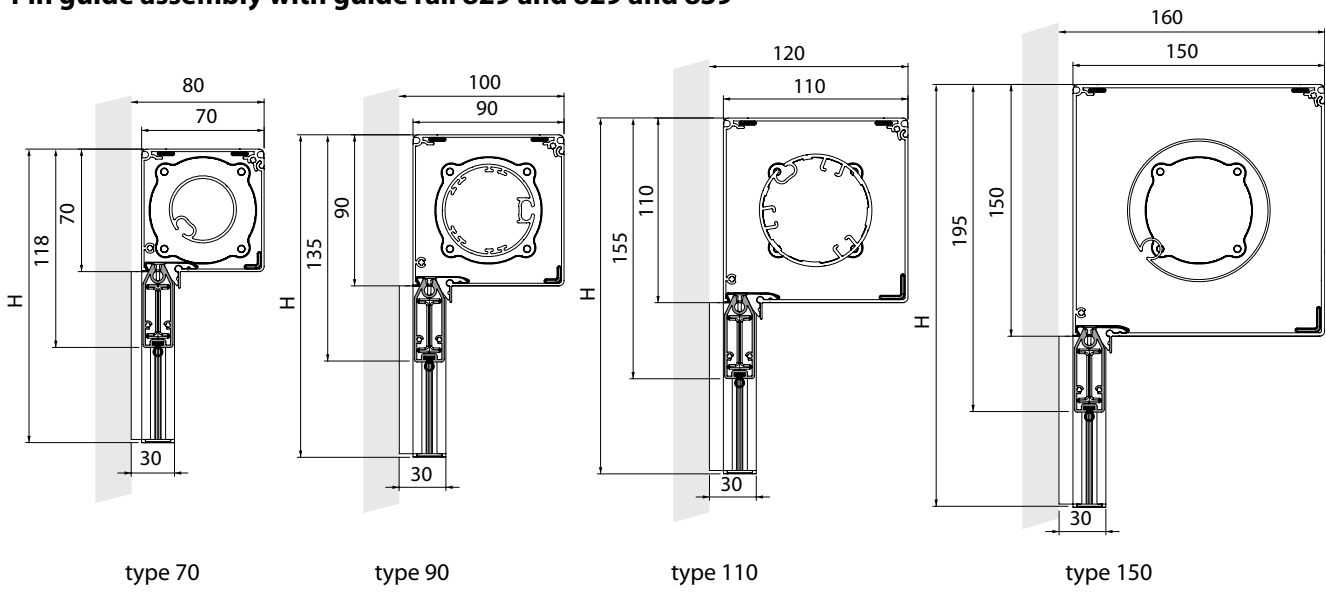
SCREEN HR8-ZIP INTERIOR BO
Measurement

Finished width B = size between rear ends of the consoles.
 Finished height H = height including the box, including the guide end caps (thickness = 2 mm) excluding mounting brackets



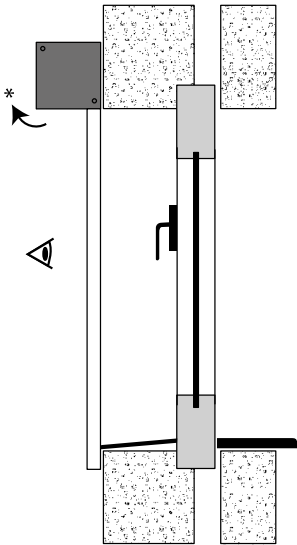
Assembly

Pin guide assembly with guide rail 829 and 829 and 839

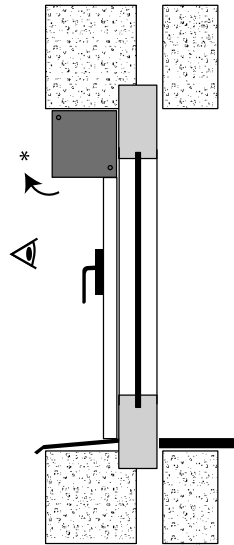


Assembly types

Type A (on the wall)



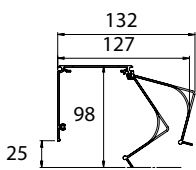
Type A (into reveal)



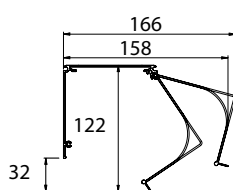
A - coiling outwards „A“
(standard)

* prostor pro otevření boxu

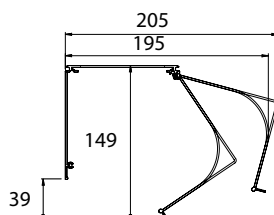
Typ 70



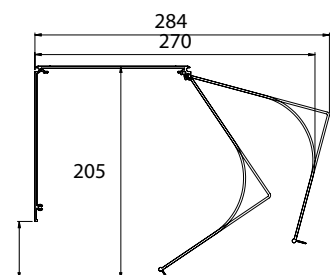
Typ 90



Typ 110



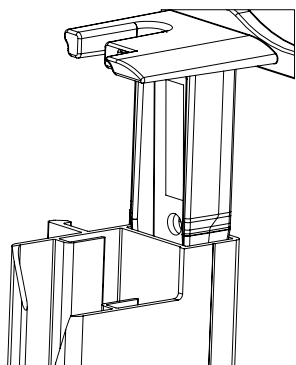
Typ 150



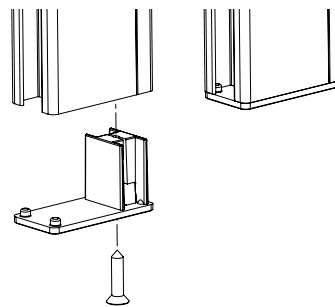
Ping guide assembly

The screenbox is assembled onto the guides. The guides mover over the pin of the consoles.

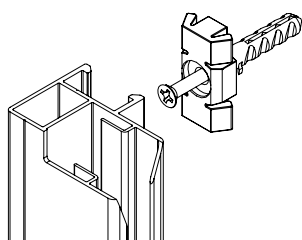
Pin guide assembly



End stop pin guide assembly



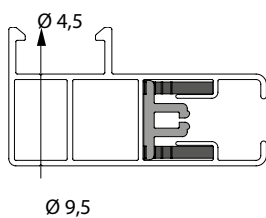
Clips for guide 839 or 865



Fitted with an end stop in black plastic or end plate in aluminium at the bottom end to stop the bottom lath; thickness 2 mm.

Some guides can be supplied with pre-drilled holes in the rear or side faces.

Side face drill:



Guides for side face drille holes:

Drilling	829/839	820/830
Side face	x	x

X x H x D	X	drawing number
50 x 30 x 3	50	6-014549-0000
60 x 30 x 3	60	6-014550-0000
100 x 30 x 3	100	6-014552-0000
130 x 30 x 3	130	6-014542-0000

SCREEN HR8-ZIP INTERIOR BO

Assembly

Based on the installation situation, there are several ways the screen can be installed:

Method 1. Affix the box using the mounting brackets, then slide the guide rails onto the console pivot and secure the guide rails with screws.

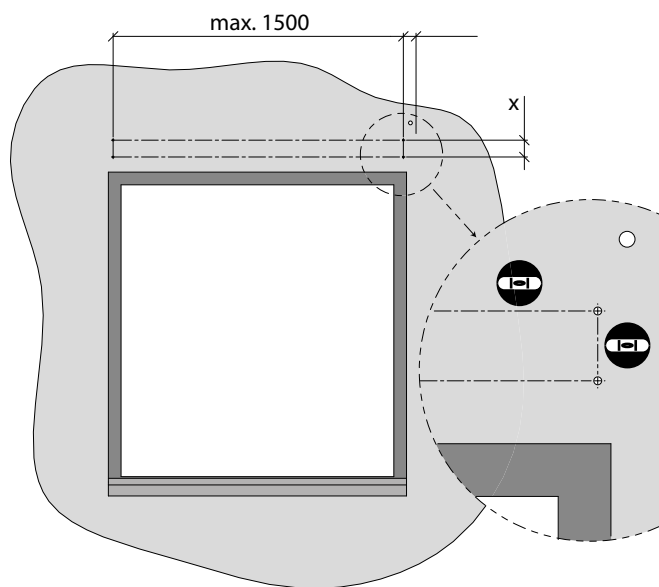
Method 2. Place the complete box / guide rail assembly in or against the window opening and screw them in place.

Method 3. Screw the guide rails in place. Then push the box onto the guide rails and secure it in place.

METHOD 1

Affix the box using the mounting brackets, then slide the guide rails onto the console pivot and secure the guide rails with screws

Step 1: Drilling holes for the mounting brackets



Box type	X
70	37
90	53
110	73
150	114



spirit level

Place the mounting brackets against the mounting surface. Use the upper holes for mounting against a ceiling and the rear holes for mounting against a wall.

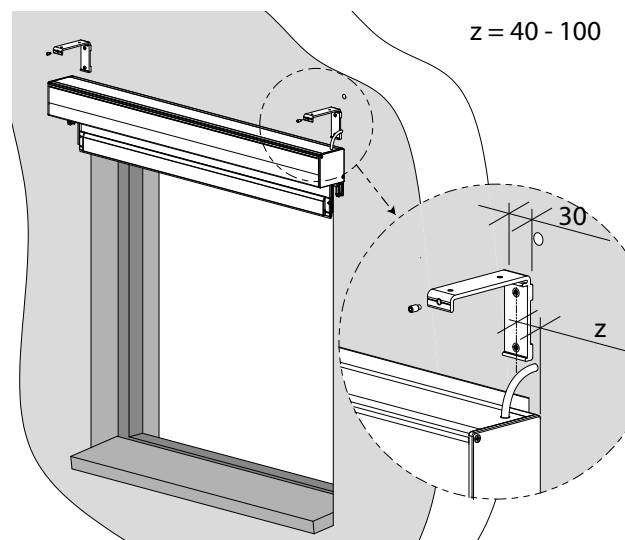
The box must be perfectly level, so make sure the brackets are aligned properly. Use a hose level and a plumb line or another suitable tool for this task.

Step 2: Installing the box on the mounting brackets

One mounting bracket per console, as close as possible to the console.

Any additional brackets are mounted in the middle of the box, evenly spaced across its width, and are intended to prevent wider boxes from sagging.

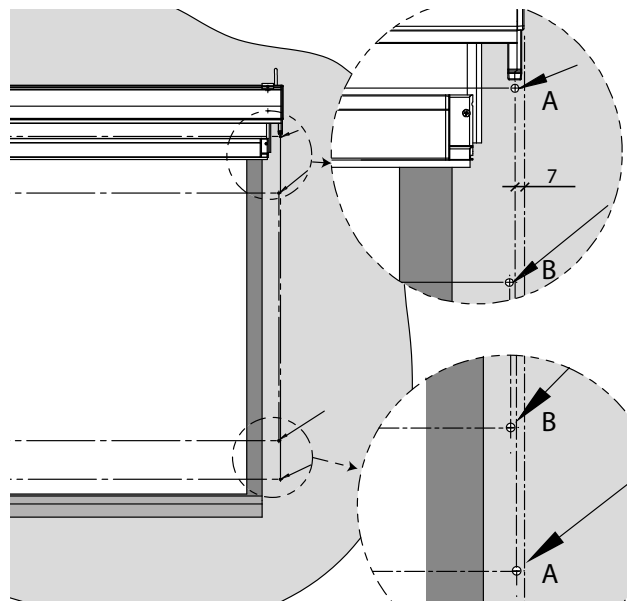
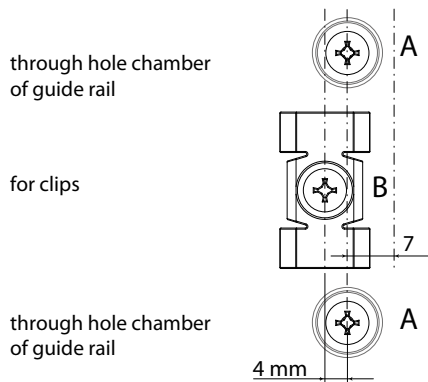
- (1) Push the box upwards into the mounting brackets.
- (2) Feed the motor cable through to the inside. Then push the box into the brackets so the slots in the back of the box engage with the L-profilings.
- (3) Next tighten the Allen screws of each bracket. The screws should grip in the slots at the top of the front of the box.



Step 3: Drilling the mounting holes for the guide rails

Mark the holes to be drilled on the wall or on the mounting surface. Use the pre-drilled lateral guide rails for this procedure. Drill the holes in the wall ($\varnothing 6$ mm) or in the window frame ($\varnothing 3.2$ mm).

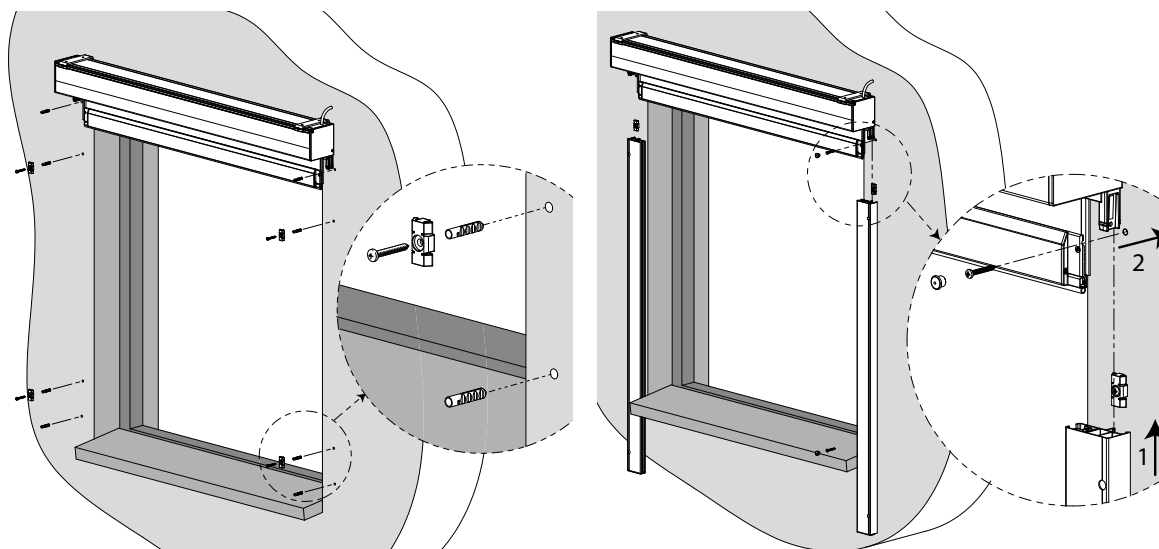
For installation to the wall, insert S6 plugs into the holes.



Step 4: Installing the guide rails

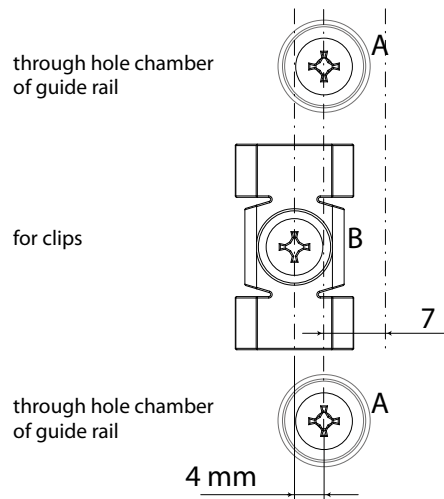
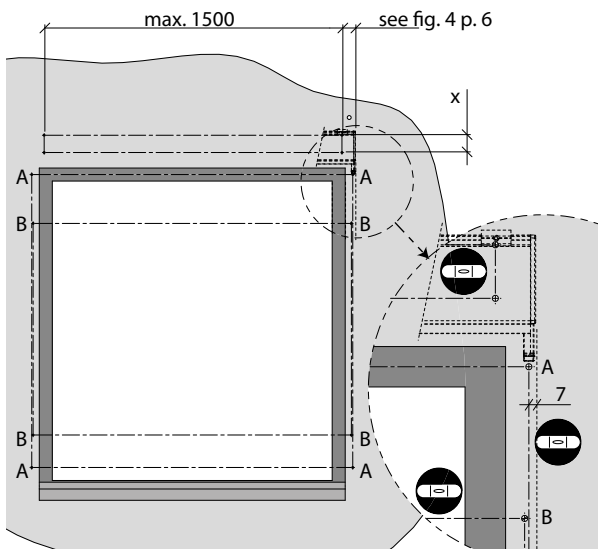
(1) Affix the clips to the mounting surface. Next slide the guide rails onto the guide rail pivots of the side consoles. Make sure the sliding blocks of the bottom slat enter the guide rail slots correctly and the zipper on the fabric slides into the U-shaped part of the plastic guide profile.

(2) Screw the guide rails to the mounting surface.

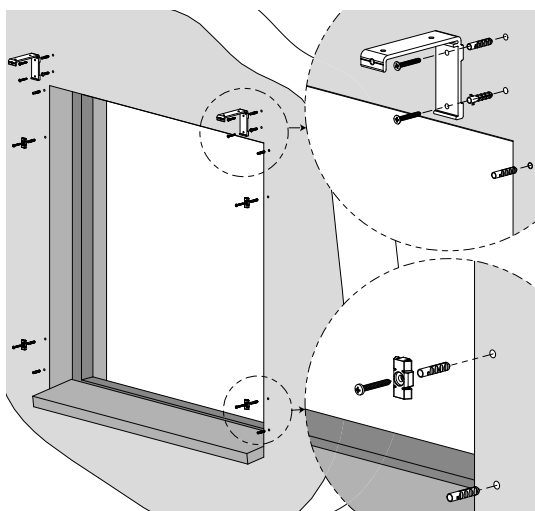


METHOD 2:

Place the complete box / guide rail assembly in or against the window opening and screw them in place.



Box type	X
70	37
90	53
110	73
150	114



Step 1: Drilling holes for the mounting brackets and guide rails

Mark the holes to be drilled on the wall or on the mounting surface (use the pre-drilled lateral guide rails for this purpose).

(If supplied, affix the box mounting bracket(s) first.)

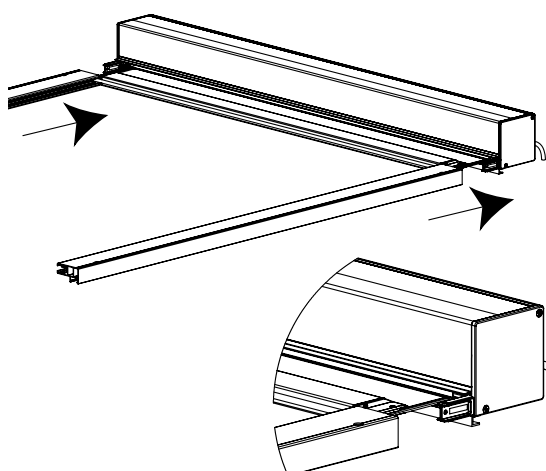
Drill the holes in the wall (Ø6 mm) or in the window frame (Ø3.2 mm).

For installation to the wall, insert S6 plugs into the holes.

Affix the clips to the mounting surface.



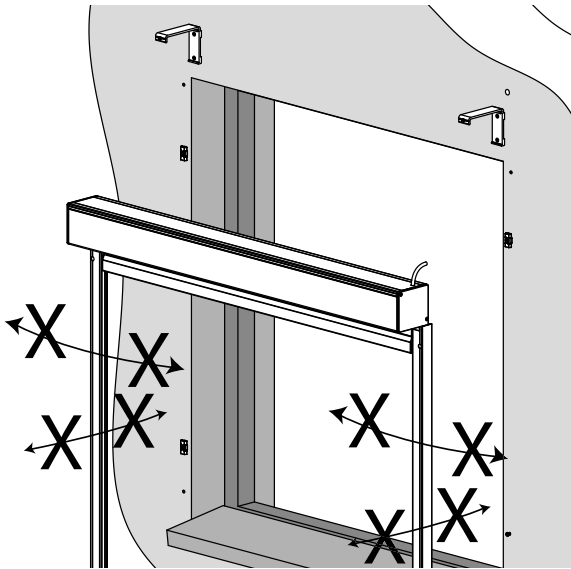
spirit level



Step 2: Sliding the guide rails over the console pivots on the bottom of the box

Place the screen box on the cardboard packaging (take care not to damage the paint finish).

Next slide the pre-drilled guide rails onto the console pivots on each of the side consoles.



Make sure the sliding blocks of the bottom slat enter the guide rail slots correctly and the zipper on the fabric slides into the U-shaped part of the plastic guide profile.

Step 3: Positioning the box and the guide rails

Now lift the screen box with the guide rails. Do this with at least two persons. Support the box and the guide rails at the same time.

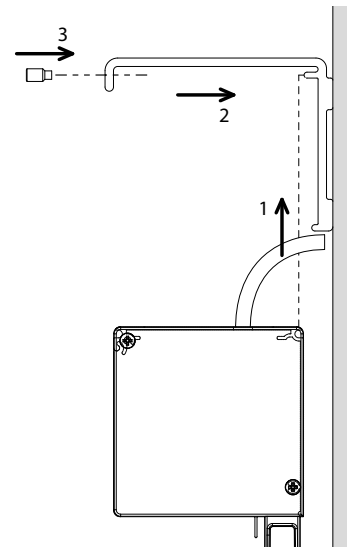
Place the complete screen assembly in or against the window opening.

For motorised operation, feed the motor cable inside through the previously drilled lead-through.

Attention! Be careful not to break off the pivots of the box by moving the guide rails too much forwards, backwards or sideways.

Step 4: Attaching the box to the mounting brackets and screwing the guide rails in place

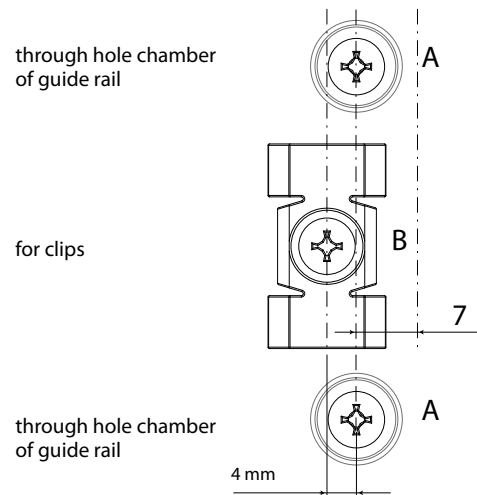
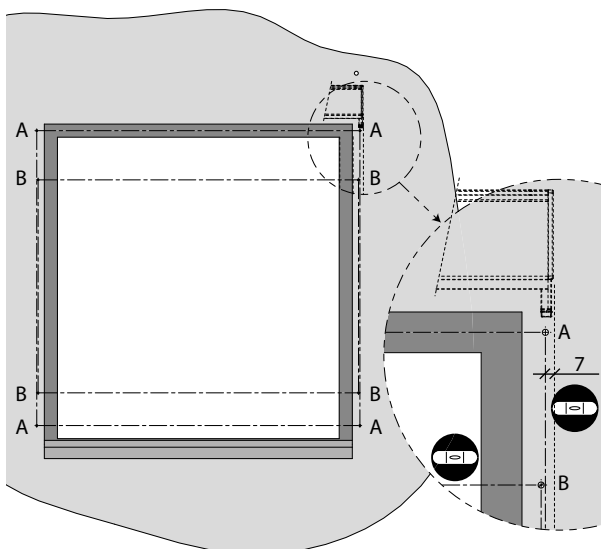
- (1) Push the box upwards into the mounting brackets.
 - (2) Feed the motor cable through to the inside. Then push the box into the brackets so the slots in the back of the box engage with the L-profilings.
 - (3) Next tighten the Allen screws of each bracket. The screws should grip in the slots at the top of the front of the box.
- Screw the guide rails to the mounting surface.

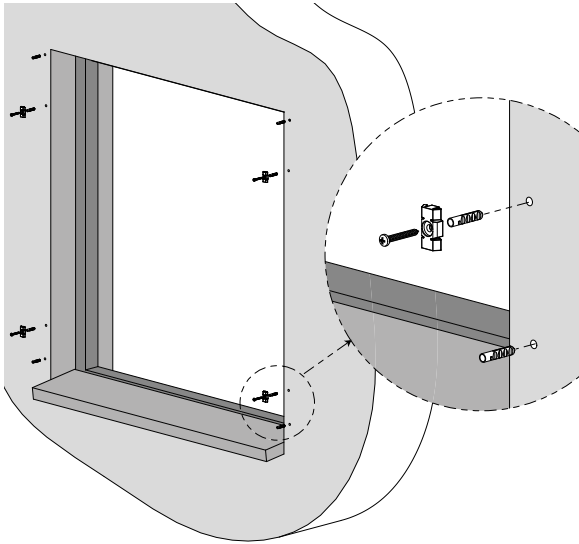


Make sure the box is always securely mounted.

METHOD 3:

Screwing the guide rails in place and then pushing the box onto the guide rails (only for screens without mounting brackets)





Step 1: Drilling mounting holes and affixing the clips

Mark the holes to be drilled on the wall or on the mounting surface (use the pre-drilled lateral guide rails for this purpose).

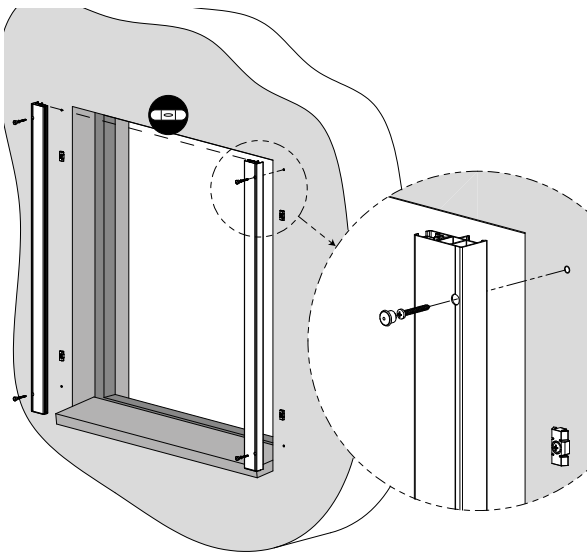
Drill the holes in the wall (Ø6 mm) or in the window frame (Ø3.2 mm), no more than 500 mm apart.

For installation to the wall, insert S6 plugs into the holes.

Affix the clips to the mounting surface.

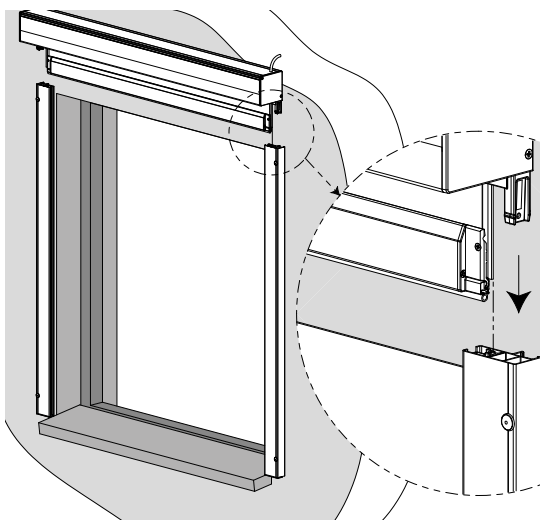


spirit level



Step 2: Mounting the guide rails.

Screw the guide rails to the mounting surface. Make sure the top of the guide rails are positioned at exactly the same height and are level.



Step 3: Sliding the screen box onto the guide rails

Lift the box and feed the motor cable to the inside.

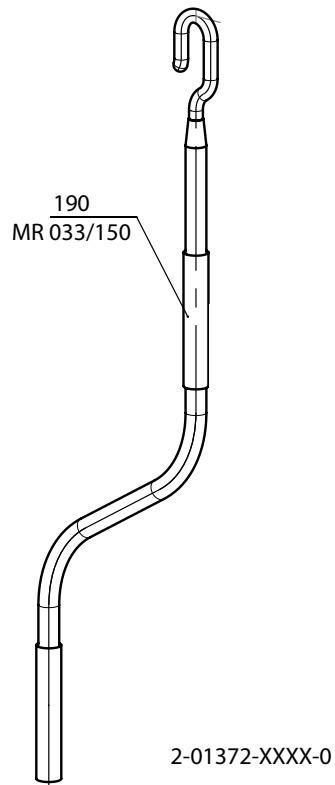
Slide the screen box so the console pivots fit into the corresponding hole chambers of the lateral guide rails.

Make sure the sliding blocks of the bottom slat enter the guide rail slots correctly and the zipper on the fabric slides into U-shaped part of the plastic guide profile.

Make sure the box is always securely mounted.

SCREEN HR8-ZIP INTERIOR BO

Control - handle

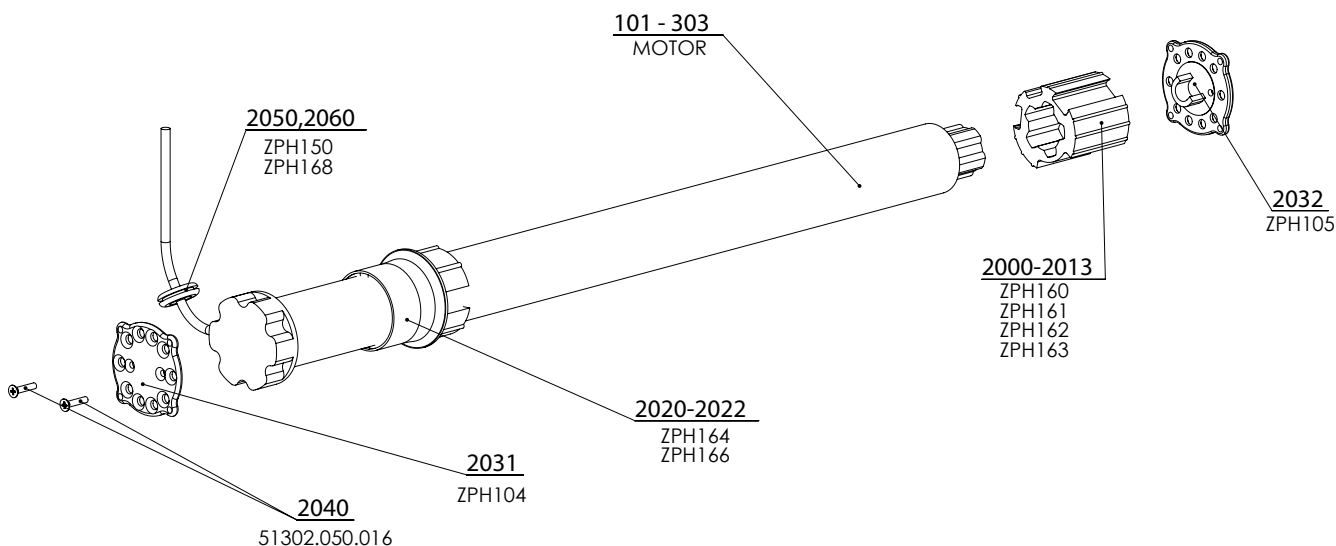


Control handle – SCREEN HR8-ZIP INTERIOR BO (2-01372-XXXX-0)

position	item name	business name	drawing number
120	Folding handle – SC700/800	ZPH114	6-014323-0000
140	Handle holder – SC700/800	ZPH113	6-014319-0000
190	Awning handle 1500 mm	MR 033/150	6-011095-1500
200	Handle, full, removable, for SCREEN		2-01436-0000

SCREEN HR8-ZIP INTERIOR BO

Control - Motor



2-00530-0002-0

Screen motors (SOMFY) – box 90, 110, 150 (2-00530-0002-0)

Position	item name	business name	drawing number
101-103	Motor altus 50 rts 06/17	MR 091/06	6-011170-xxxx
201-203	Motor sunea 50 screen io 06/17	ZP0084	6-012559-xxxx
301-303	Motor maestria +50 io 06/17 vvf5m	ZP0084/1	6-012538-xxxx
2000	Driver lt50 hi - dia. 65Mm	ZPH160	6-013980-0000
2011	Driver lt50 hi - dia. 85Mm	ZPH161	6-014326-0000
2012	Driver lt50 hi - dia. 95Mm	ZPH162	6-014327-0000
2013	Driver ls40 - dia. 50Mm	ZPH163	6-014328-0000
2020	Adaptor s40 - dia. 50Mm	ZPH164	6-014330-0000
2022	Adaptor ls/lt50 - dia. 65 Mm	ZPH166	6-014332-0000
2031	Bearing plate - flat - black	ZPH104	6-014333-9004
2032	Bearing plate - with clip - black	ZPH105	6-014334-9004
2040	Screw m5x16	51302.050.016	6-014338-0000
2050	Cable grommer - rubber - dia. 7 Mm	ZPH150	6-014339-0000
2060	Cable clip 600x4,8 - black	ZPH168	6-014438-0000

Screen motors (SOMFY) SCREEN HR8-ZIP INTERIOR BO – BOX 70 (2-00530-0004)

Position	item name	business name	drawing number
30	Motor Sunea 40 Screen IO	ZP0091/16	6-014483-0009
40	Motor holder LS 40	ZPH167	6-014336-0000
50	Adapter LS 40	ZPH164	6-014331-0000
60	Driver LS 40	ZPH163	6-014328-0000
70	Flat bearing plate	ZPH104	6-014333-9004
80	Bearing plate with clip	ZPH105	6-014334-9004
90	Rubber cable grommet diameter 7	ZPH150	6-014339-0000
100	Cable clip 300x4,8	ZPH168	6-014438-0000
110	Screw 3,5x16 DIN 7982	VRH 130	6-014674-0000

Motory (GEIGER) SCREEN - box 110, 150 (2-00530-0007)

Position	item name	business name	drawing number
10	Motor Geiger Solid Line Zip AIR 6/16	PR0790/06	6-015903-0006
11	Motor Geiger Solid Line Zip AIR 10/16	PR0790/10	6-015903-0010
12	Motor Geiger Solid Line Zip AIR 20/16	PR0790/20	6-015903-0020

Fabric roller shutters - using of chain connections with accessories

Fabric roller blinds	chain connection		
	plastic (IS 28/1)	metal (VRO 0028)	
		cleat (XY 00041)	pulley (XY 00036)
LUNA	x		
NEMO	x		
ROLLITE	x		
LARRA			x
VERRA*	x	x	
VERRA METAL*	x	x	
VERRA SEMI*	x	x	x (only for D-N)**
SUNLITE*	x	x	
R-LITE	-	-	-
HR8-ZIP int. BO	-	-	-

* There is possible to use only metal connection from 4,5 m².

** D-N (fabric type DAY-NIGHT)

Safety features according to the standards EN 13120+A1; EN 16 433; EN 16 434



Connection



Pulley



Cleat



Two wheels

INTERIOR SHADING	Safe type of operation						Dangerous operation			Suitability of ISOTRA protective systems			
	Manually	Wheel	Handle	Switch	Remote control	Control bar	Šnúra	Šnúra/táhlo	Řetizek	Coupler	Pulley	Reel	Two wheels
HORIZONTAL BLINDS													
ISOTRA SYSTEM HIT									Yellow	Blue			
ISOTRA SYSTEM HIT II									Yellow	Blue			
ISOTRA SYSTEM CLASSIC									Yellow	Blue			
ISOTRA ENERGY					Green				Yellow	Blue			
ISOLITE				Green	Green				Yellow	Blue	Blue		
ISOLITE PLUS				Green	Green				Yellow	Blue	Blue		
NEOISOLITE									Yellow	Blue			
SYSTEM 25S, 25SM								Yellow					Blue
SYSTEM 25R									Yellow	Blue			
SYSTEM 25L (large)									Yellow		Blue		
SYSTEM 25K		Green											
SYSTEM 25SW								Yellow					Blue
SYSTEM 25M				Green	Green				Yellow				
CETTA 35, 50 - ECONOMY								Yellow					Blue
CETTA 35		Green		Green	Green			Yellow					Blue
CETTA 50 (usage in interior)		Green		Green	Green			Yellow					Blue
V-LITE INTERIOR ROOF BLIND	Green					Green							
HORIZONTAL BLINDS in design:													
ATYPICAL CHAIN BLINDS									Yellow				Blue
CHAIN BLINDS WITH BRAKE									Yellow				Blue
CHAIN BLINDS (space > 2,5 m ²)									Yellow				Blue
VERTICAL BLINDS													
JAPANESE PANEL BLINDS	Green			Green	Green	Green	Yellow		Yellow	Blue			Blue
PLISÉ													
VS			Green										Blue
F							Yellow						Blue
DFC			Green										Blue
PL			Green										Blue
SD													
SR 1 S			Green										
FABRIC ROLLER BLINDS													
VERRA									Yellow	Blue			
VERRA METAL				Green	Green				Yellow	Blue			
VERRA SEMI				Green	Green				Yellow	Blue			
ROLLITE									Yellow	Blue			
LUNA									Yellow	Blue			
SUNLITE									Yellow	Blue			
NEMO									Yellow	Blue			
LARRA				Green	Green				Yellow		Blue		
R-LITE ROOF ROLLER BLIND	Green					Green							
SCREEN HR8-ZIP INTERIOR BO		Green		Green	Green								



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