



SCREEN BLINDS ZIPNER

ZIPNER 90, ZIPNER 110, ZIPNER 150, ZIPNER
90 SLIM, ZIPNER 110 SLIM, ZIPNER 110
COMPACT, ZIPNER 130 COMPACT

TECHNICAL AND OPERATIONAL DOCUMENTATION

DTE/E/Z/3

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Product name and manufacturer's details

NAME

ZIPNER SCREEN BLINDS

ZIPNER 90, ZIPNER 110, ZIPNER 150, ZIPNER 90 SLIM,
ZIPNER 110 SLIM, ZIPNER 110 COMPACT, ZIPNER 130 COMPACT

PRODUCT MANUFACTURER'S DESIGNATION

Manufacturer name:

NERLI GRUPPEN Poland Sp. z o.o.

Manufacturer's headquarters:

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PRODUCT SAFETY MARKING:

The product meets the CE safety requirements

This technical and operational documentation:

effective from 14 December 2018.

in the scope of products marked above







Product safety tips

The product has been made in accordance with the latest technical knowledge in the field of construction and manufacturing technology and meets the safety requirements in accordance with the following standards.

Lp.	Item	European Legal Basis	Polish Legal Basis
1.	External curtains. Performance requirements including safety	PN-EN 13561:2015-07	PN-EN 13561:2015-07
2.	Essential requirements for machinery	Directive 2006/42/EC of the European Parliament and of the Council	Regulation of the Minister of Economy of 28 October 2008 (Journal of Laws No. 1228.2008)
3.	Overall product safety	Directive 2001/95/EC of the European Parliament and of the Council	Journal of Laws of 12 December 2003, No. 229, item 2275, as amended. d.

Explanations of symbols and signs

The following symbols (pictograms) indicate particularly important information on safety and threats.

Pictogram	Meaning of the pictogram	Information
	INFORMATION	Before using the product, please read the instruction manual Compliance with the instructions is a prerequisite: - trouble-free operation of the product, - pursuing claims for defects. For the safety of persons, the Instruction should be kept.
	INFORMATION	No harmful or dangerous consequences for people or objects.
	REMARK!	A situation that may cause damage to the product or other damage. No danger to humans.
	WARNING!	Risk of danger.
	DANGER!	This symbol denotes all safety information, the non-observance of which poses a threat to the life or health of individuals. Threat to life and health. Risk: Danger of serious injury or death. A dangerous operation that could cause injury or damage to the product.
	WARNING!	Danger to health or life through electric shock.

Definitions

In the technical and operational documentation, the following terms and definitions are used:

Product: ZIPNER SCREEN BLINDS: ZIPNER 90, ZIPNER 110, ZIPNER 150, ZIPNER 90 SLIM, ZIPNER 110 SLIM, ZIPNER 110 COMPACT, ZIPNER 130 COMPACT

Screen blind: an external sun curtain, mounted outside the building, above the opening or inside the window opening, in which closing and opening is carried out using an electric control mechanism – with the drive system connected to the control system.

Subject matter, purpose and content of the documentation

The subject of this documentation are products manufactured by NERLI GRUPPEN Poland under the name ZIPNER SCREEN BLINDS: ZIPNER 90, ZIPNER 110, ZIPNER 150, ZIPNER 90 SLIM, ZIPNER 110 SLIM, ZIPNER 110 COMPACT, ZIPNER 130 COMPACT

The documentation is valid together with the device-specific information available on the www.nerligruppen.com website.

The documentation is a component of the delivery of the product and should be constantly stored in its vicinity. An integral part of this documentation is the WARRANTY CARD for the product.

The documentation shall include:

- important recommendations for the installation, use and maintenance of the product,
- guidelines, the observance of which will allow for long-term and trouble-free use of the product.

NERLI GRUPPEN Poland is not responsible for any damage resulting from non-compliance with the recommendations contained in this documentation.

In order to further improve the products, NERLI reserves the right to introduce changes that, while maintaining important technical parameters, will be considered expedient to increase the quality of product service and safety of use.

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This documentation may not be used for competitive activities or made available to third parties, either in part or in whole, without the owner's permission.

Technical parameters

Dimensions	Width max.	Height max.
Zipner 90	2500 mm	2500 mm
Zipner 90 Slim	2500 mm	2500 mm
Zipner 110	4500 mm	3750 mm
Zipner 110 Slim	4500 mm	3000 mm
Zipner 110 Compact	4750 mm	3000 mm
Zipner 130 Compact	4750 mm	4000 mm
Zipner 150	6000 mm	6000 mm
Electric drive - motor with parameters:		
- supply voltage	230 V / 50 Hz	
- power	120 W to 240 W (depending on motor type)	
- current consumption	0.5 to 1 A (depending on engine type)	
- degree of protection	IP 44	
- continuous operation time	4 min	
- torque	9 Nm, 10 Nm, 20 Nm, 25 Nm or 30 Nm (depending on the engine type)	
- rotational speed	14 rpm, 17 rpm (depending on engine type)	
- operating temperature	- 25 of the 70 °C - SOMFY; -20 of 60 °C - ELERO	
Assembly		
Use	External	
Installation in place	On the façade of the building	

Technical data of electric motors:

Detailed information can be found on the websites of engine manufacturers: www.somfy.com, www.elero.com, www.becker-antriebe.com, www.inel.gda.pl

Product characteristics

Wykaz typów wyrobów:

- mounted outside the building, actuated by means of an electromechanical drive connected to the control system,

They are characterized by the following properties:

- limit the access of sunlight to the room – depending on the demand,
- provide diffuse lighting of the room,
- protect against excessive penetration of sunlight into the rooms, protect the rooms against heating, which contributes to the improvement of thermal comfort in the rooms,
- allow to reduce the costs associated with air conditioning of rooms,
- do not emit toxic substances during operation,
- the motors have a degree of protection of at least IP44, that is, they are protected against splashes of water on the housing from any direction,
- opening/closing is carried out remotely using an electric switch or using a remote control,
- the guards for moving parts are designed and manufactured in such a way as to ensure safety – assuming they are properly operated.

Installation

This chapter contains general requirements for the assembly of the product. Proper assembly is a prerequisite for the smooth functioning of the product. NERLI GRUPPEN Poland recommends the use of specialized assembly teams, guaranteeing the customer to carry out the correct assembly.

Standard security for installation

- the general rules of the construction must be observed,
- it is necessary to comply with the applicable health and safety regulations, especially regarding the safety of working with electrical devices and work at heights,
- the system should be protected against dirt, especially hard to remove, caused by adhesives, mortars and construction foams,
- the product must be mechanically fixed, foams, adhesives and other such are not allowed as fastening materials,
- the product should be attached to durable elements of the building (walls, steel structure, aluminum structure),
- in the case of reinforced concrete or solid brick lintels, dowels of dimensions adapted to the load-bearing capacity of the element in which it is to be mounted shall be used for installation,
- the base to which the system will be attached should be a stable and load-bearing structure (concrete, brick, etc.). It is forbidden to fix the product on elements that do not provide adequate load capacity, e.g. suspended ceilings (elements made of drywall) or insulation (polystyrene, mineral wool). The substrate itself must be dry, even and of adequate mechanical strength,
- in the case of metal structures, connected to each other in accordance with the applicable rules for joining metals, assembly is carried out to materials of appropriate wall thickness by means of appropriate screws or anchors,
- before proceeding with the assembly, all unnecessary elements must be removed from the assembly zone,
- access to the system - for its maintenance - should be possible without dismantling other elements of the building.

Requirements for safe installation of the product at height

Installation of the product, due to the need to perform work at heights, is a particularly dangerous work, because it poses a particularly high risk of endangering the safety and health of people, in particular falling from a height.

The development of a safety and health plan during assembly is the responsibility of the Buyer.

The buyer should specify detailed health and safety requirements when performing work at height, and in particular should ensure:

1. direct supervision over their performance by persons designated for this purpose (e.g. works manager),
2. appropriate safety measures, in particular fall protection equipment,
3. detailed instruction of employees performing work at heights.

Work at a height of more than 2 m, where the use of personal protective equipment against falls from a height is required, must be carried out by at least 2 people.

Work at height should be organized and carried out in a way that does not force workers to lean beyond the rim of the railing or the outline of the device on which they stand.

The purchaser is obliged to ensure that only authorised and properly informed persons have access to the places where work is carried out at a height. Employees of the OHS service should inform employees staying or who may be staying on the site of such works or in the vicinity of such works about the work carried out at height and the necessary safety measures to be applied during this work.

Preparation for installation

1. the supplied system should be checked for completeness of the entire set,
2. before installation, it must be checked that the substrate has a sufficient load capacity to allow safe installation and operation,
3. supply power to the motor.

ToolsList:

- drills for metal and concrete,
- hammer drill,
- ladder or scaffolding,
- hand screwdrivers and cordless screwdriver,
- hammer
- tape measure,
- construction pencil or pen,
- spirit level ,
- hexagonal wrench, flat/eyelet, socket extended.

Order of assembly operations

Before proceeding with the installation, it is necessary to check whether the substrate is suitable for installation – if the strength of the substrate is weaker, a correspondingly larger number of mounting brackets should be ordered (the amount supplied as standard is provided for the substrate with the strength of concrete class C20/25).

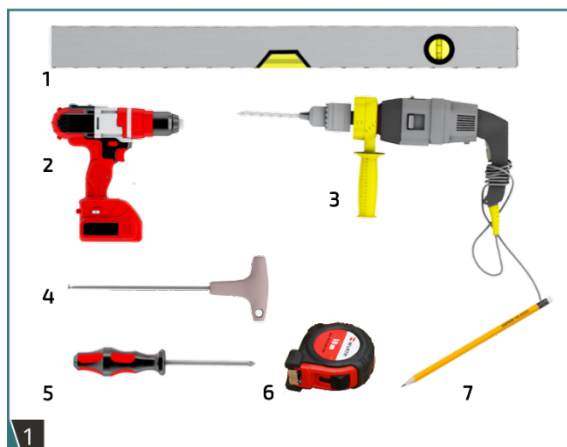


Fig. 1. Necessary tools for assembly: (1) spirit level, (2) screwdriver (3) impact drill, (4) Allen wrench, (5) screwdriver, (6) meter, (7) pencil.



Fig. 2. Check that the system is complete and compatible with order. Measure the cassette and guides.

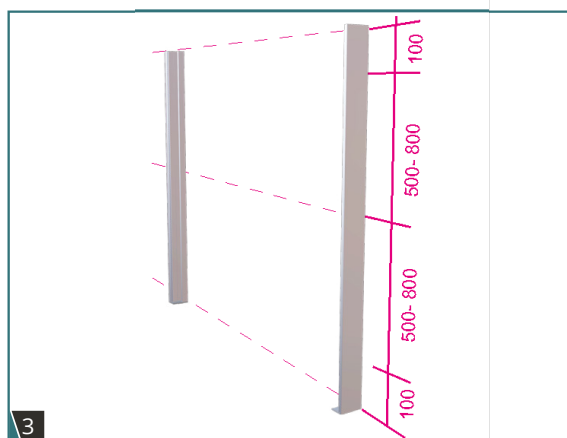


Fig. 3. Drill mounting holes in the guides (10 cm from their edges). Mounting hole spacing should be in the range of 50-80 cm.

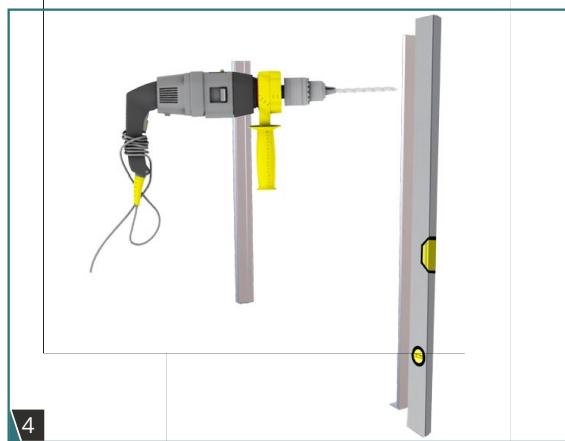


Fig. 4. Check that the marked places are vertical.
Drill holes for the mounting pins.

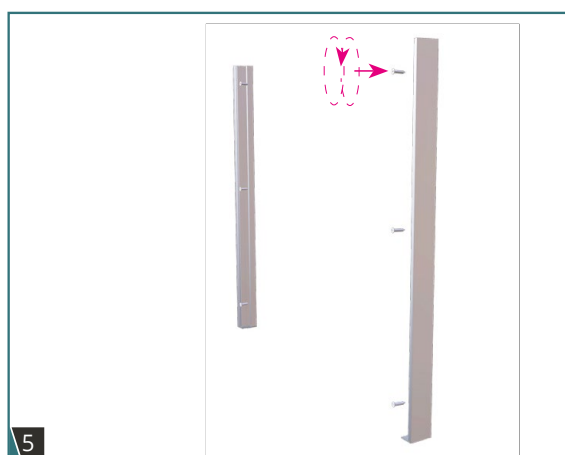


Fig. 5. Mount the guides by screwing to the wall.

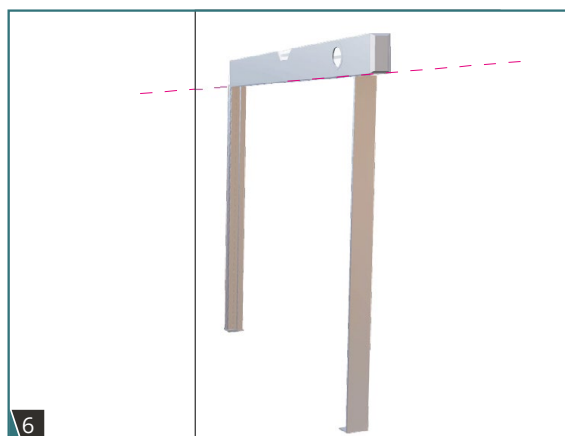


Fig. 6. Make sure that the guides are on the same level.



Fig. 7. Apply the cassette to the guides.

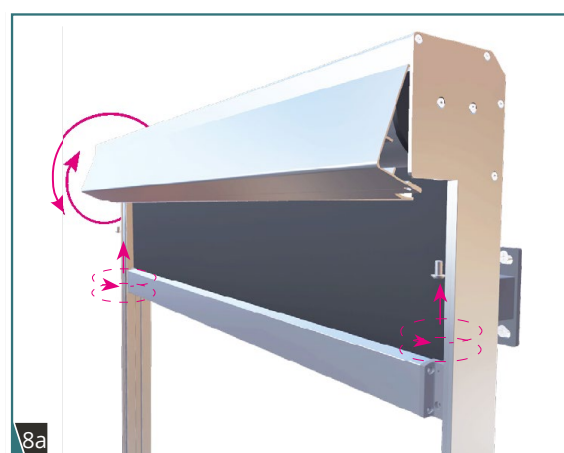


Fig. 8a. Installation application in the case of: **Zipner 90, Zipner 110.**
Unscrew and remove the inspection part of the cassette (two side screws).

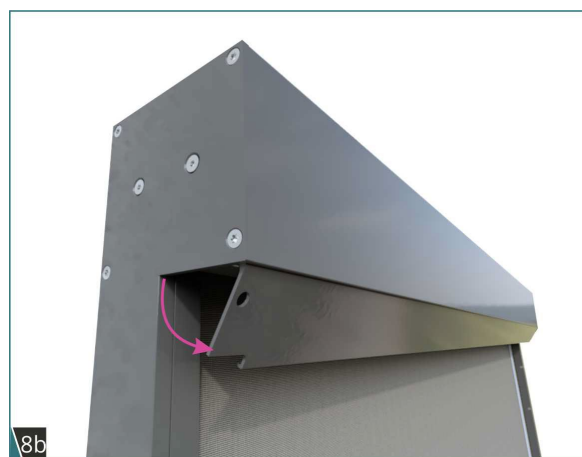


Fig. 8b. Application of mounting in the case of: **Zipner 90 slim.**
Unscrew and remove the inspection part of the cassette



Fig. 8c. Application of mounting in the case of: **Zipner 110 slim**.
Unscrew and remove the inspection part of the cassette

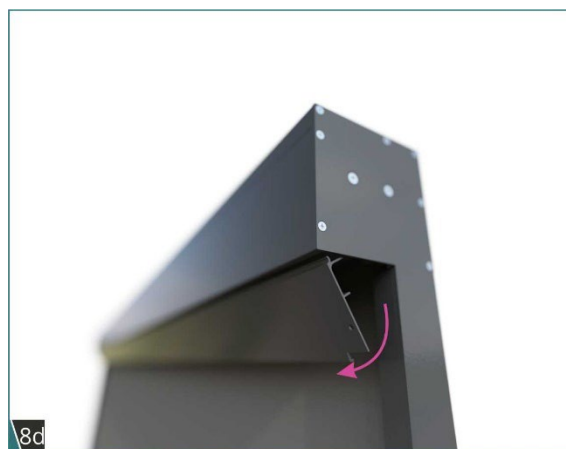


Fig. 8d. Installation application in the case of: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 niche cassette**. Remove the inspection part of the cassette



Rys. 8e. Zastosowanie montażu w przypadku: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 kaseta fasadowa**. Zdjąć część rewizyjną kasety

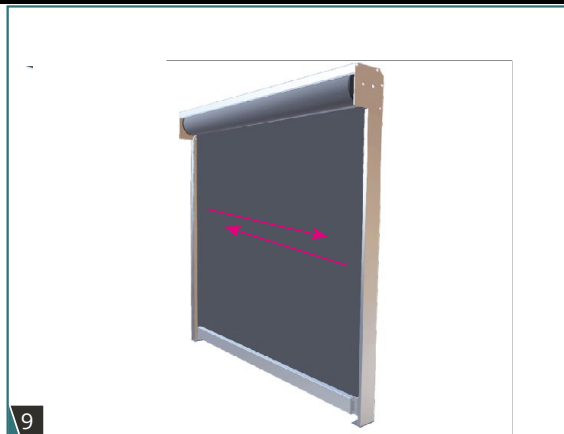


Fig. 9. Connect electrical controls and electrical supply according to the drive assembly instructions. Expand the fabric as much as possible and, if necessary, align the material of the blind.

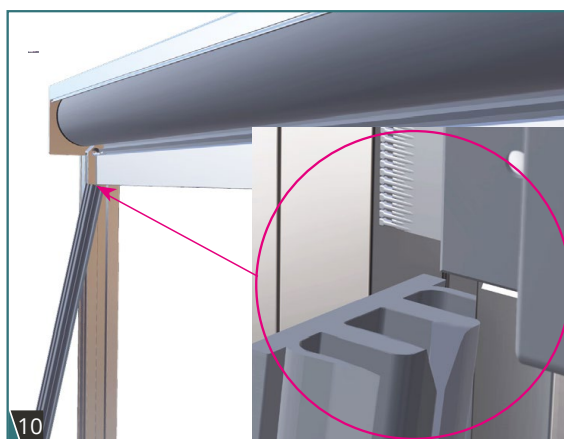


Fig. 10. Place the ZIP insert at an angle and slide the ZIP zipper towards the beveled edge.

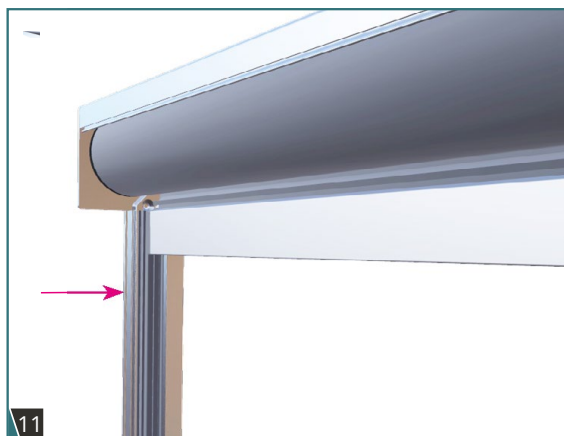


Fig. 11. Insert the ZIP insert into the guide.

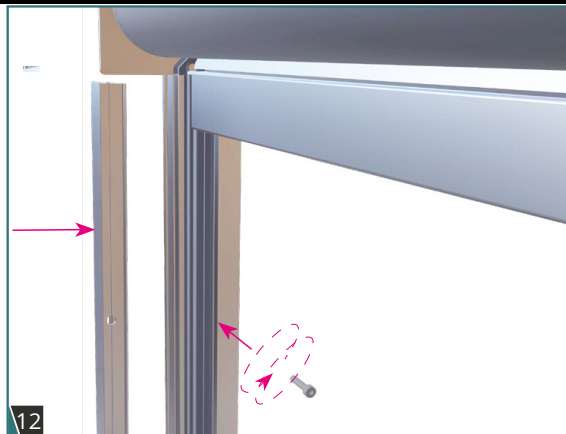


Fig. 12. Mount and screw the inspection part of the guides.

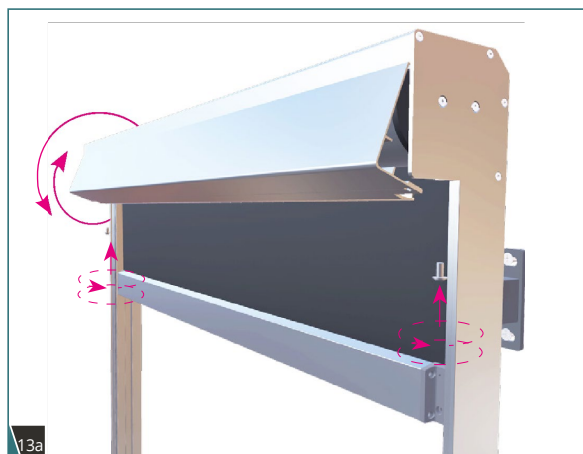


Fig. 13a. Installation application in the case of: **Zipner 90, Zipner 110.**

Unscrew and remove mount and screw the inspection part of the cassette (two side screws at the bottom of the cassette).

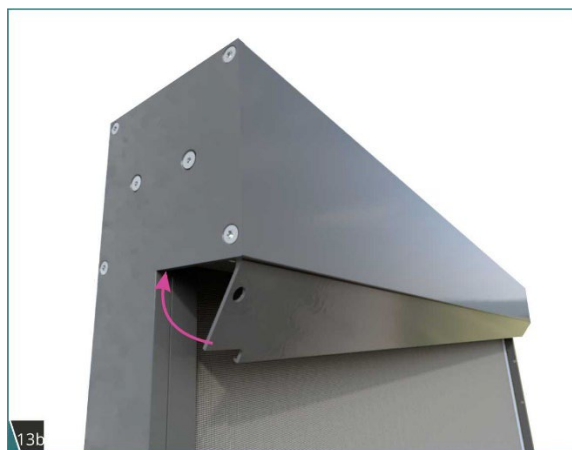


Fig. 13 b. Application of mounting in the case of: **Zipner 90 Slim .**
Put on the inspection part of the cassette



Fig. 13c. Application of mounting in the case of: **Zipner 110 slim**.
Apply and screw the inspection part of the cassette.

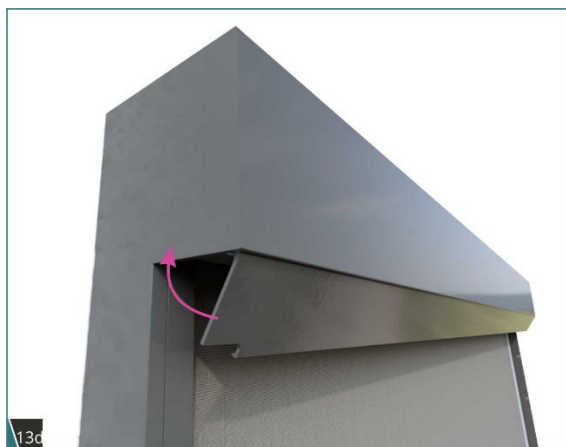


Fig. 13d. Installation application in the case of: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 niche cassette**. Apply the inspection part of the cassette.

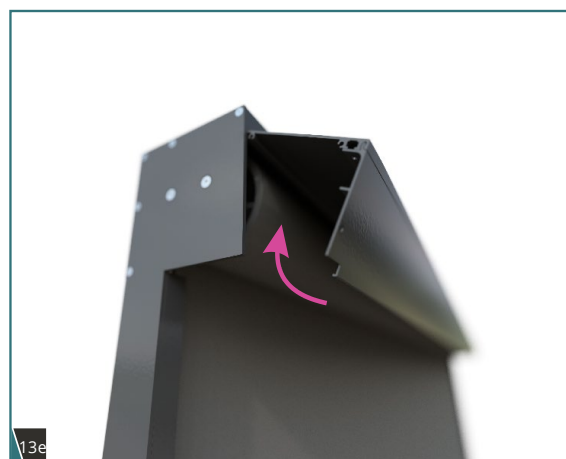


Fig. 13e. Application of mounting in the case of: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 façade cassette**.
Apply the inspection part of the cassette

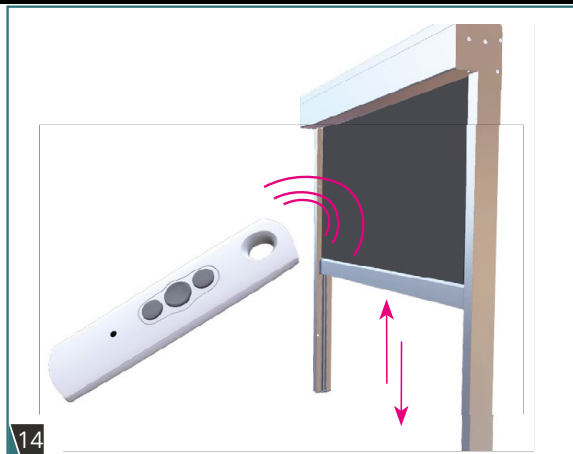


Fig. 14. Check that the bottom beam and material are moving correctly in the guides and fine-tune the Limit Limiters.

Remark! When setting the lower limit switch, it is recommended to leave a distance of 25 mm from the bottom edge.

Mounting on brackets

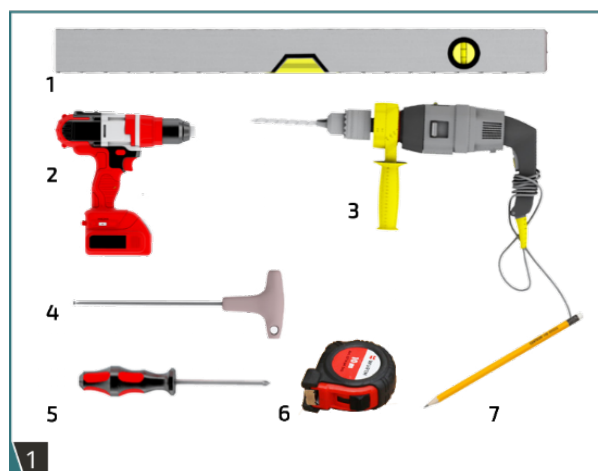


Fig. 1. Necessary tools for assembly: (1) spirit level, (2) screwdriver (3) hammer drill, (4) wrench Allen, (5) screwdriver, (6) meter, (7) pencil.



Fig. 2. Check that the system is complete and compatible with order. Measure the cassette and guides.

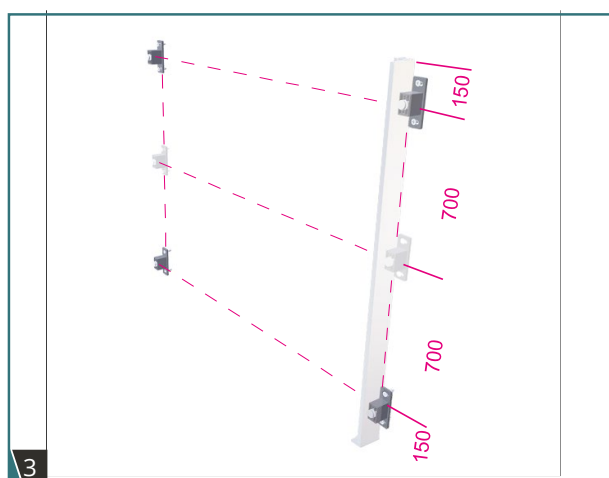


Fig. 3 Mark with a pencil the places in the wall for the holes for the handles of the guides.

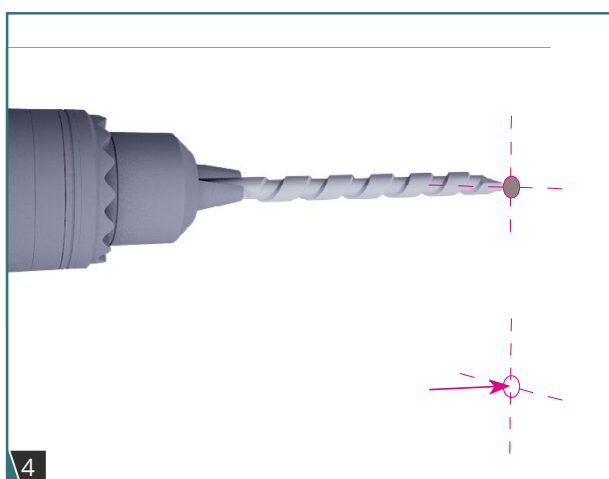


Fig. 4. Drill holes for dowels in marked places (their length and type adapt to the substrate).

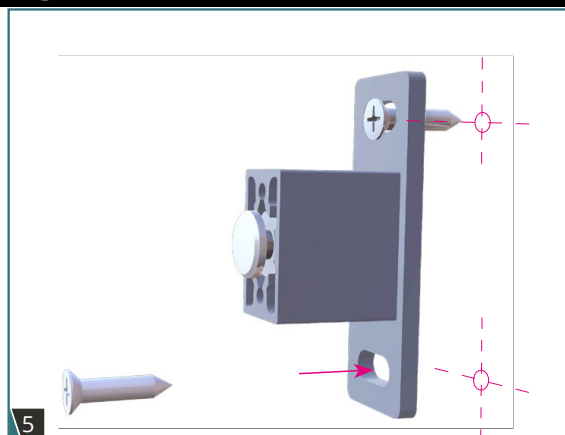


Fig. 5. Apply the mounting brackets and screw the screws.

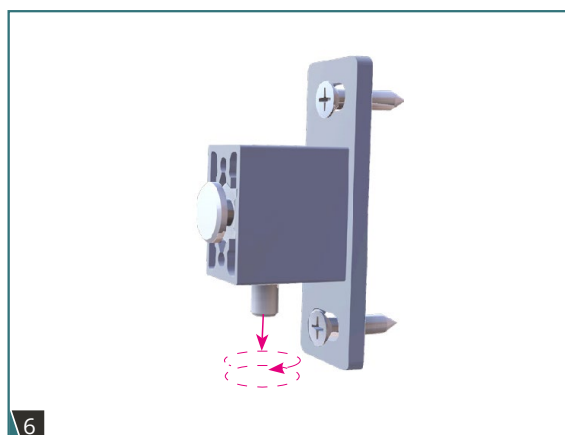


Fig. 6. Loosen the screw securing the pin in the mounting bracket.

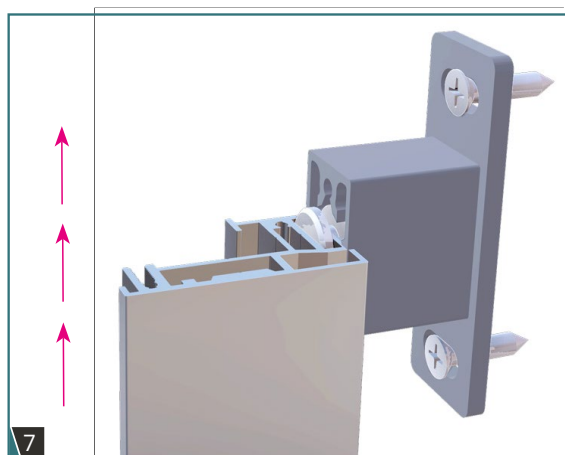


Fig. 7. Slide the guide onto the mounting bracket.

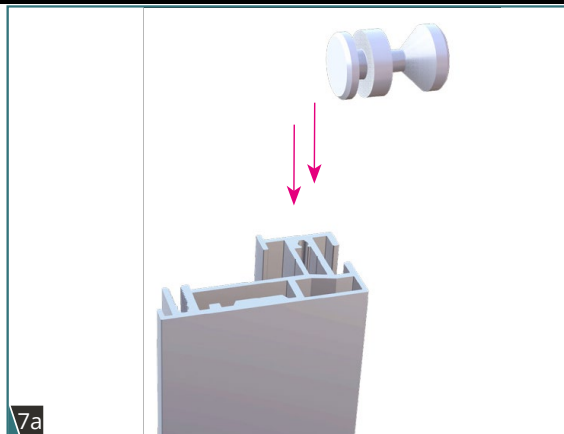


Fig. 7a. In case of insufficient space, extend pin from the mounting bracket and slide it into the guide.

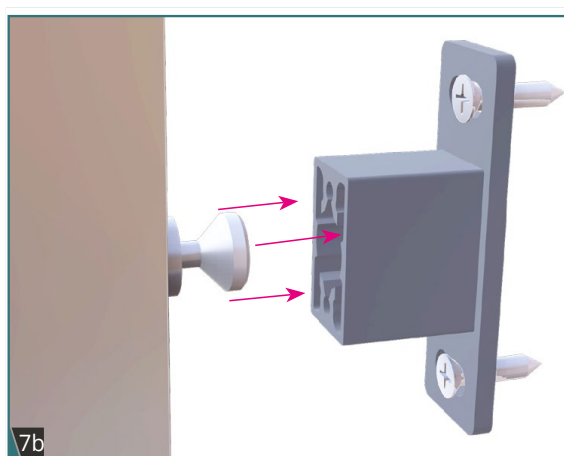


Fig. 7b. Place the whole in the mounting bracket.

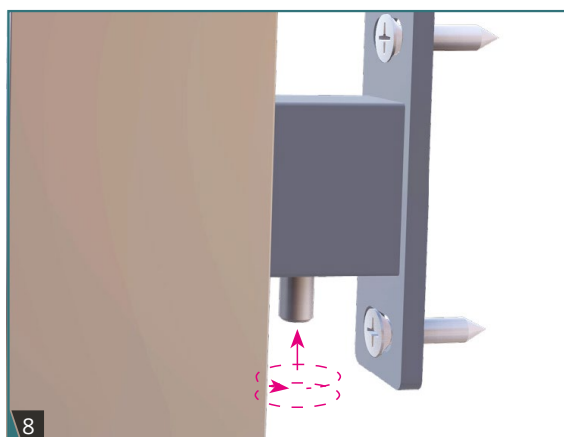


Fig. 8. Tighten the screw securing the pin.



Fig. 9. Make sure that the guides are at the same level.



Fig. 10. Apply the cassette to the guides. Correct installation of brackets guides and cassettes: every 70 cm.

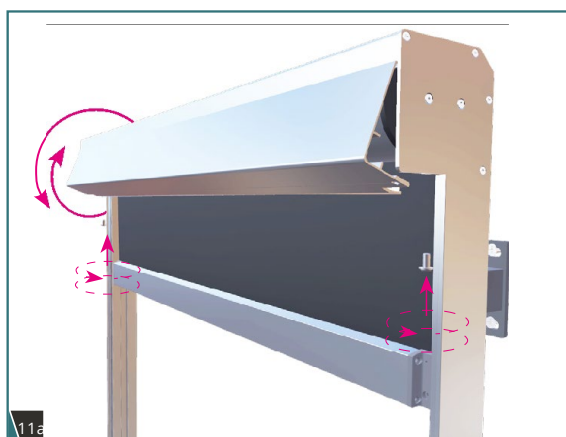


Fig. 11a. Mounting application in the case of: **Zipner 90, Zipner 110.**

Unscrew and remove the inspection part of the cassette (two side screws at the bottom of the cassette).

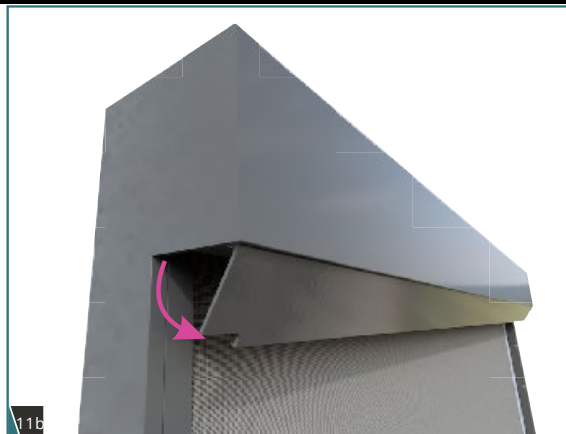


Fig. 11b. Application of mounting in the case of: **Zipner 90 slim**.
Unscrew and remove the inspection part of the cassette



Fig. 11 c. Application of mounting in the case of: **Zipner 110 slim**.
Unscrew and remove the inspection part of the cassette

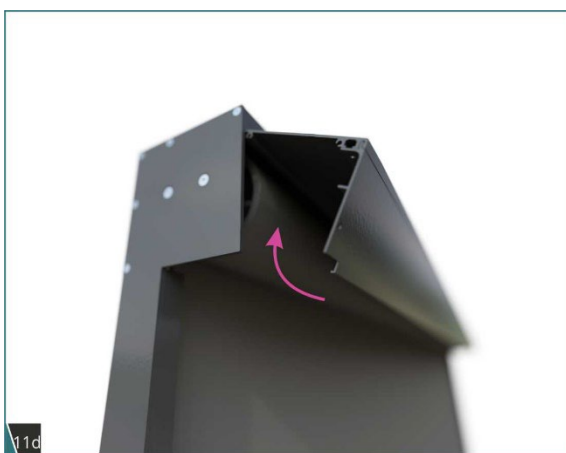


Fig. 11d. Mounting application in the case of: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 niche cassette**. Remove the inspection part of the cassette

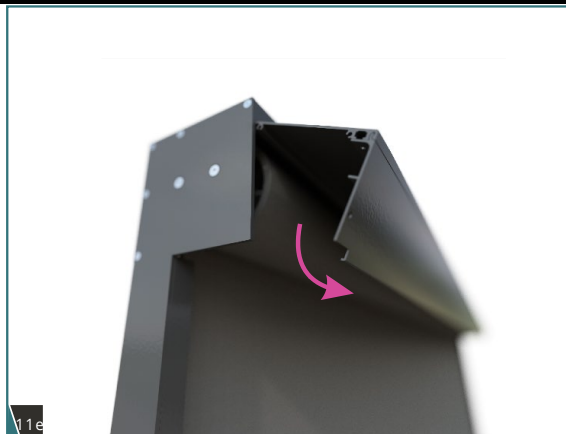


Fig. 11e. Mounting application in the case of: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 façade cassette**. Remove the inspection part of the cassette

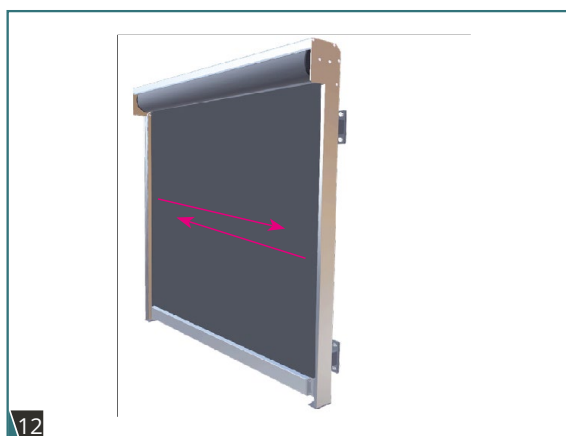


Fig. 12. Connect electrical controls and electrical supply according to the drive assembly instructions.
Expand the fabric as much as possible
and, if necessary, align the material of the blind.

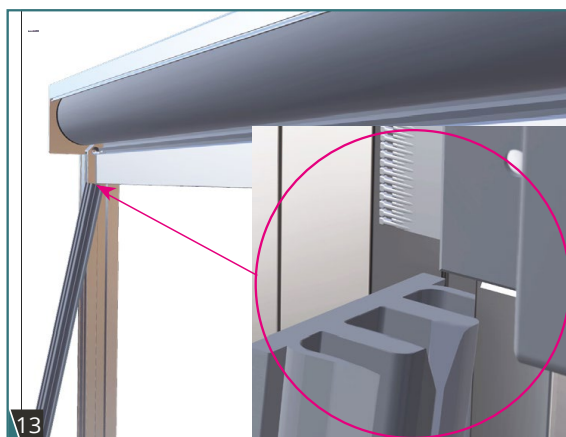


Fig. 13. Place the ZIP insert at an angle and slide the ZIP zipper towards the beveled edge.

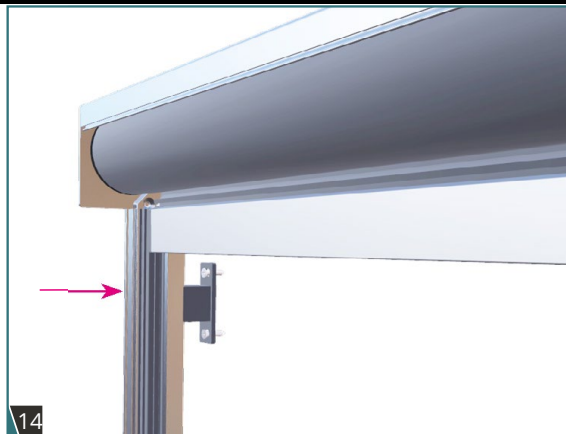


Fig. 14. Insert the ZIP insert into the guide.

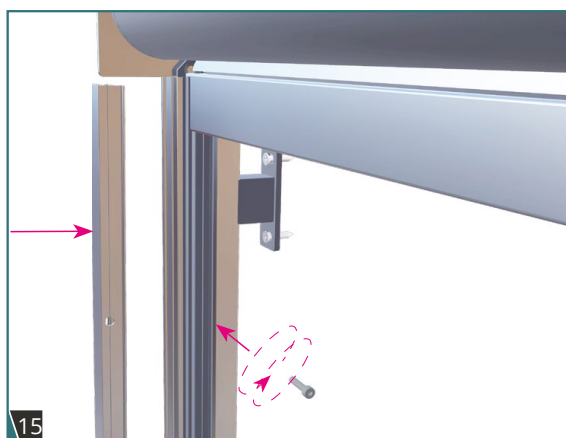


Fig. 15. Mount and screw the inspection part of the guides.

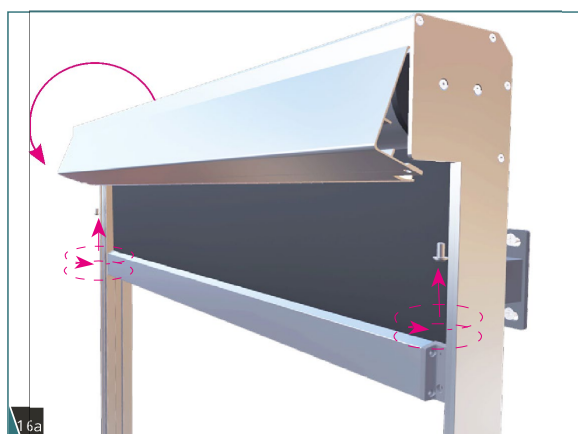


Fig. 16a. Installation application in the case of: **Zipner 90, Zipner 110**.
Disassemble and screw the inspection part of the cassette (two side screws at the bottom of the cassette).

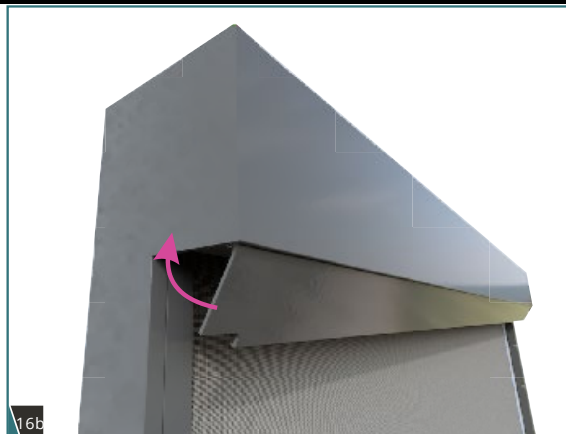


Fig. 16b. Application of mounting in the case of: **Zipner 90 Slim**.
Apply the inspection part of the cassette.



Fig. 16c. Mounting application in the case of: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 niche cassette**.
Apply the inspection part of the cassette

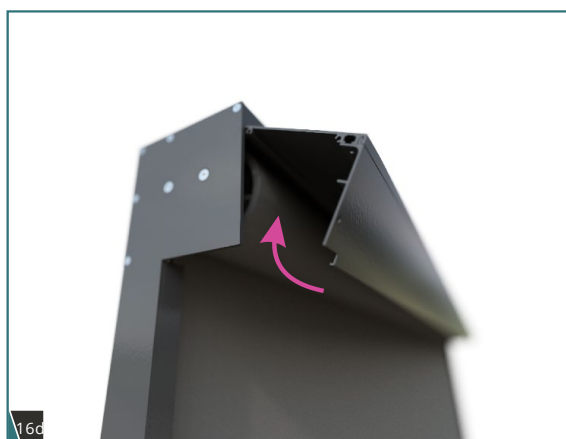


Fig. 16d. Application of mounting in the case of: **Zipner 110 Compact, Zipner 130 Compact, Zipner 150 façade cassette**.
Apply the inspection part of the cassette

Wiring

Follow this manual and the instructions for use of the engine. Detailed information can be found on the websites of engine manufacturers: www.somfy.com, www.elero.com, www.becker-antriebe.com, www.inel.gda.pl

Product characteristics

All cables must comply with the applicable standards.

WARNING!

Electrical connections can only be made by persons with SEP qualifications. Electrical connections shall be made in accordance with the attached schematic diagram of the connections in accordance with the instructions of the electric drive. When laying the power cable, care should be taken to ensure that the cable is not bent and that there are no sharp edges in the way of laying it, which may lead to damage. The switch should be properly mounted at a height of 125cm. The switch used must be designed by the manufacturer to control the above mentioned systems. The limit limits for ejecting and retracting systems are factory set. **WE DO NOT SET THE LIMIT SWITCHES** | After making changes to these settings, the process of saving these changes should be carried out in accordance with the programming instructions attached to the engine description.

Safety devices

The operating time of the electric motor must not exceed 4 minutes. In order to extend the life of the drive, a thermal switch is installed in it, which protects the drive against overheating during operation. After activating such a switch, you should wait about 20 minutes. After this time, the temperature will drop and the drive will return to normal operation

First start

During the trial run, there should be no people within range of the system. Remove any objects in the path of the blind movement. Open and close the system. Check that the bottom beam descends flush with the roller tube - the cassette at closing and that it retains the level at maximum opening of the system.

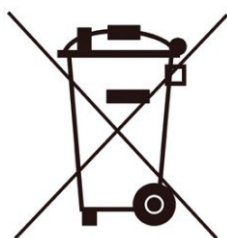
Use

The user should be comprehensively instructed by the assembly company in terms of the issues of operation, safety and use of the device.

- it is forbidden to store the remote control device in a place easily accessible to children,
- it is forbidden to use a damaged blind,
- it is recommended to carry out a periodic inspection consisting in checking the completeness, condition and effectiveness of structural elements and electrical equipment,
- if automatic control systems (e.g. wind/sun sensor) are used, disconnect the power supply before any operation or maintenance is carried out,
- forced work can damage the product.

Maintenance

Do not make any changes to the delivered product yourself, as this may void the warranty and pose a risk to proper handling. Maintenance and repair work should be carried out by a qualified service of the manufacturer or his authorized representative. Simple maintenance operations, i.e. cleaning the fabric, can be performed by the user. It is recommended to conduct an interim review 1 time per year.



Do not dispose of used electrical appliances in the trash can.