



SUNSCREEN

EXTERNAL ROLLER BLINDS



INSTALLATION & OPERATION MANUAL

Thank you for buying the SUNSCREEN textile roller blind, which protects interiors against excessive solar radiation.

You are advised to read the following instructions before you start using the product, and if your roller blind is equipped with an electrical drive system and control devices, such as a weather automation system - you should also read the manuals provided with these products. This manual should be kept for future use, and in case of reselling the blind – it should be given to the new buyer.

In case of any questions, please contact the supplier for further information.

TABLE OF CONTENTS

1.	IMPORTANT GENERAL INFORMATION	3
1.1.	Symbols used in the manual	3
1.2.	Warnings related to operational safety	3
1.3.	Maximum permissible wind speed	3
2.	ROLLER BLIND OPERATION.....	4
3.	TRANSPORT AND STORAGE.....	5
4.	Installation	6
4.1.	Roller blinds with lateral guides.....	6
4.2.	Installation of roller blinds with ZIP guides.....	7
4.3.	Installation of roller blinds with standard guides	9
4.4.	Installation of roller blinds with rope guidance / without lateral guides	10
4.5.	Setting of motor end positions	11
5.	Maintenance.....	11
5.1.	Maintenance of mechanical components	11
5.2.	Maintenance of the cover	12
6.	Failures	12
7.	Disassembly and disposal	13

1. IMPORTANT GENERAL INFORMATION

The SUNSCREEN textile roller blind system is devised to shade vertical window openings. The blind can be installed both indoors and outdoors.

Its main purpose is to protect against the sun – the roller blind helps us adjust the amount of the solar energy coming inside, which is a necessary element of modern heating and cooling systems.

Available fabrics offer different transmission parameters, such as visible light transmission. If you have any doubts about the fabric selection, please contact your supplier.

1.1. Symbols used in the manual

The most important issues related to the operation of your roller blind are marked with the following symbols:



Warning!

It means a potential source of personal injury or damage to things.



Warning!

It means a potential source of personal injury or damage to things resulting from electrical hazard.

1.2. Warnings related to operational safety

During the purchase it should be checked if the product and its equipment include all the elements in accordance with the proof of purchase. The manuals for other devices (electrical drive system, control and automation devices), which constitute an integral part of the blind, are also an integral part of its documentation.



It is forbidden to act in a different way than this documentation states. Any modifications and changes should be agreed with the manufacturer and should be approved in writing. All ambiguities within the meaning of the provisions of this manual should be consulted with the manufacturer.



If the product has an electrical drive system, children should not be allowed to play with the control devices. The remote control should be kept away from children. The installation should be checked frequently for signs of wear or damage to the cables. If you notice any irregularities, stop using the product and contact your supplier.

1.3. Maximum permissible wind speed

SUNSCREEN external roller blinds meet the requirements of wind resistance in accordance with PN-EN 13561 standard (see the table of wind resistance classes below) and are resistant to wind with a maximum speed of 49 km/h (3rd class of wind resistance). It does not apply to roller blinds without lateral guides for the bottom profile, which are intended only for indoor installation and should not be exposed to wind loading. However, the roller blind's resistance to wind strength, after its installation, depends largely on the number of the mounting brackets used, the type of anchors and the properties of the

foundation to which the device is installed. That is why, it is so important to have the blinds installed by qualified, trained personnel, and its correctness should be confirmed by the installer's entry in the acceptance report.

Class	Wind Power on the Beaufort Scale	Wind Speed	Events on Land
0	1 – 3	Up to 19 km/h	Leaves and small branches in constant motion.
1	4	20 – 28 km/h	Dust and paper are raised. Branches start to move.
2	5	29 – 38 km/h	Small branches sway.
3	6	39 – 49 km/h	Large branches in motion. The wind whistles. Hats are blown off.

2. ROLLER BLIND OPERATION

- The right and left side phrases used in this manual refer to the device seen from the outside of the room.
- There must be no people or obstacles in the path of the external roller blinds while opening and closing.
- The roller blinds are not toys! Do not allow children to operate the blind or to use the control devices.
- When operating the blind (rolling up / down), the operator should see the device at all times.
- If the blind is damaged, it cannot be used until it is repaired. The weather automation system should be switched into the manual operation mode - the relevant information can be found in the manual provided with the weather automation system.
- The parts of the blind which are in motion must not be touched while rolling up or down.
- The roller blind operated manually is fitted with a mechanical transmission, located on the right or left side of the device, with a hook for connecting the crank handle. Depending on the model, the hook can be placed outside or inside the room. Operation (rolling up and down) of the manually operated roller blind requires attaching the crank handle to the hook of the transmission, and then one needs to rotate the handle in the right direction (rolling up or down).
- When rolling up and reaching the top end position (the blind is rolled up completely), one should stop rotating the handle – it may damage the roller blind.
- Never roll the blind down beyond the lower end position - it will wind the cover on the winding tube in the opposite direction and it may damage the fabric.

- The roller blind is used to protect against the sun. In order to avoid damage, the blind should be rolled up immediately if the wind speed exceeds the permissible value for a given model (see also point 1.3 - Maximum permissible wind speed).
- The roller blind may not be used when ice or rime is deposited on its elements. It may damage the blind components or the motor.
- The roller blind construction must not be used as a frame for hanging decorative elements, e.g. flower pots.
- Whenever possible, the blind should be rolled up only when the cover is dry and dirt free. Before rolling up, remove leaves, branches, insects and similar dirt from the cover. If it is necessary to roll the wet blind up – for example due to the simultaneous occurrence of strong wind – the blind should be rolled down and dried as soon as possible. Otherwise, folds, creases or other visual defects may appear on the surface of the cover, and they are not covered by the guarantee.

3. TRANSPORT AND STORAGE

The roller blind case is delivered as a complete element, with the motor installed or the transmission and the fabric wound on the shaft. Due to the large size, the guides are not assembled with the case for the time of transport. The elements are connected on the blind's assembly site.

When handling or storing the elements, one should be careful in order not to cause any dents on the case surface, which is not resistant to pressure. The fabric is completely hidden in the case, therefore the probability of its damage is small. However, special care should be taken to prevent any foreign elements from entering the case, because they could cause the fabric to be worn or cut. Packages should be protected against falling and moisture.



When handling the elements, make sure that the weight per person does not exceed 25kg. If in doubt, comply with local health and safety regulations.

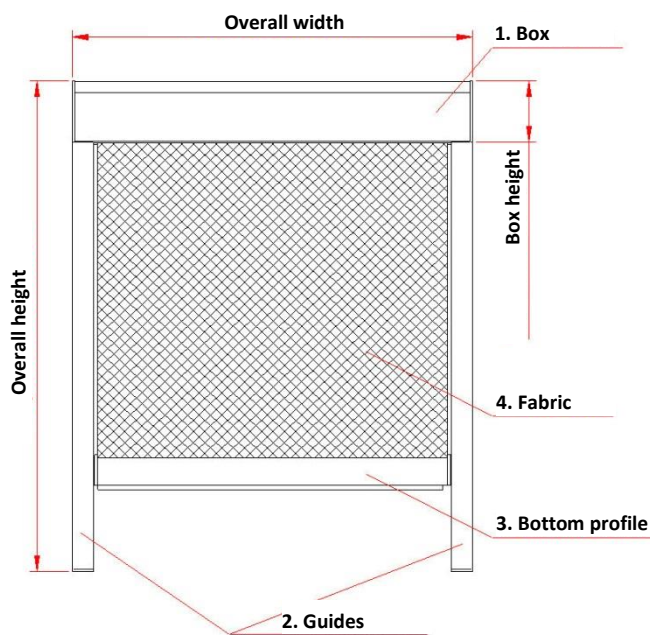
The installation of the blind is based on techniques generally available on the market, while all specialist elements necessary for its installation, fixing and adjustment are supplied with the blind. The roller blind does not have any energy storage elements such as springs, so there is no danger of its uncontrolled rolling up or down.

4. Installation

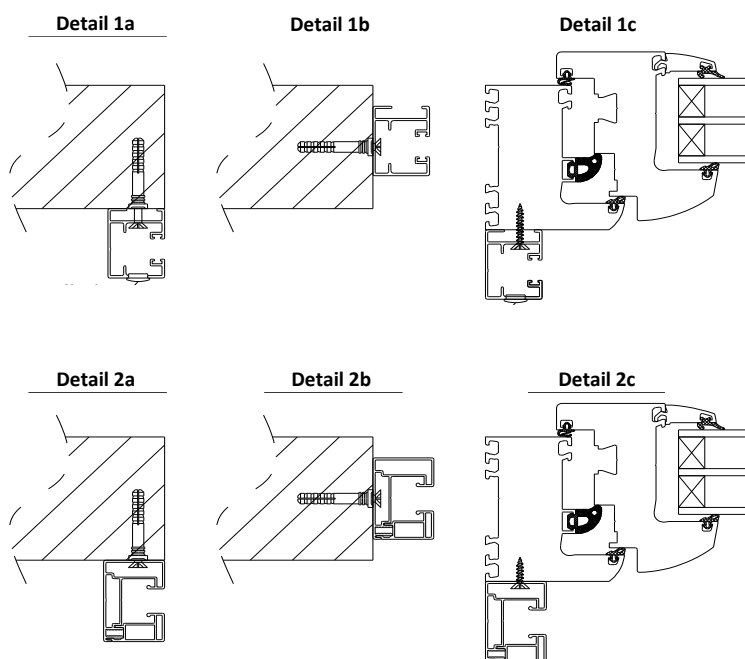


The installation of the roller blinds can be made only by trained personnel. During installation, comply with health and safety regulations. Mounting elements – screws, anchors, etc. – must be approved for use in construction.

4.1. Roller blinds with lateral guides

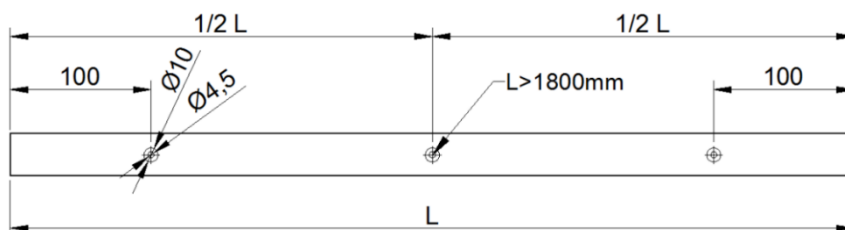


The roller blind can be mounted on the window opening, inside the opening or on the window frame. All three ways are presented in the figure below, details 1a, 1b, 1c show the system with the standard guide, while the details 2a, 2b, 2c show the system with the ZIP guide. Any other mounting solutions should be consulted with the manufacturer. For installation, use screws and wall plugs adapted for a given surface. Mounting elements should be approved for use in construction.

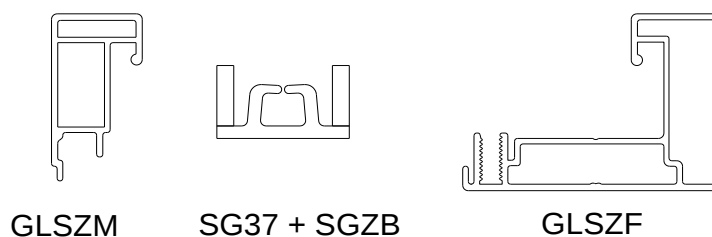


4.2. Installation of roller blinds with ZIP guides

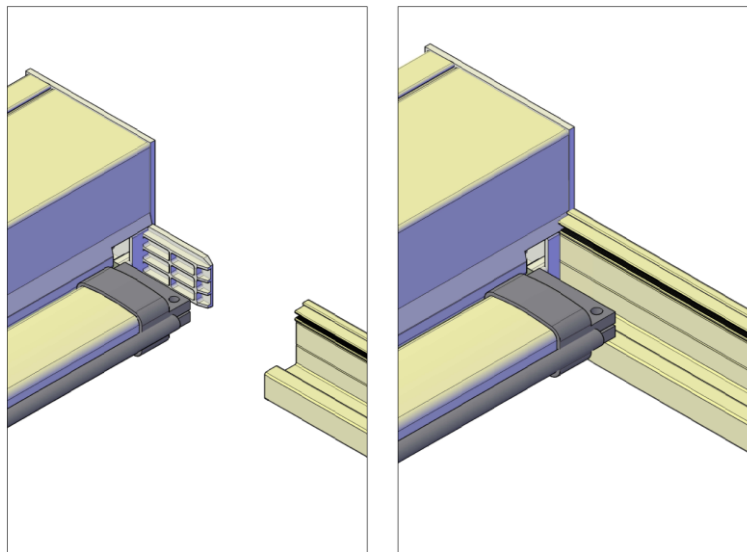
1. Make mounting holes in the guides as shown in the diagram below. First with a 4.5 mm drill right through the guide, then with a 10 mm drill only in the first wall of the guide - for the head of the screw.



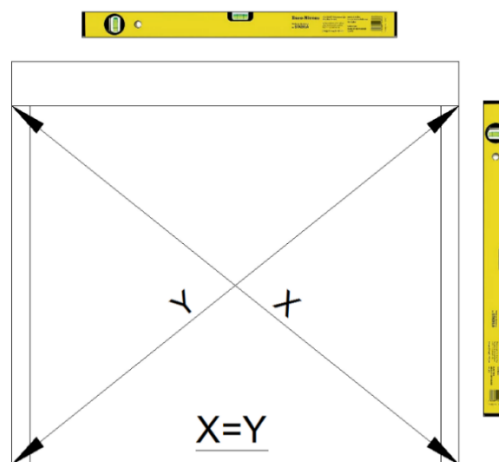
2. Disassemble the guide to have the following elements separate: main profile (GLSZF), closing profile (GLSZM), bottom rail (SG37) and foam absorbers (SGZB). Use a 3 mm hex key to unscrew the closing profile.



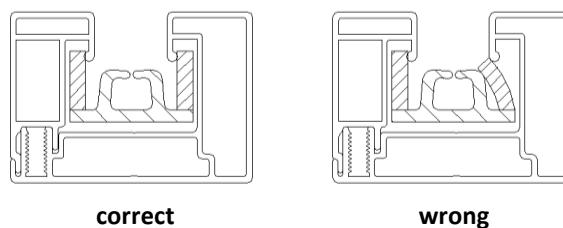
3. Slide the guides into the case side:



4. Place the roller blind close to the window opening or the window frame. Determine the horizontal location of the box, the vertical location of the guides and check the diagonals of the blind as shown in the figure below. At this stage, it is necessary to make an aperture - depending on the control variant - for the cable of the electrical drive system or for the axis of the crank. If all dimensions are correct, the guides should be permanently mounted.

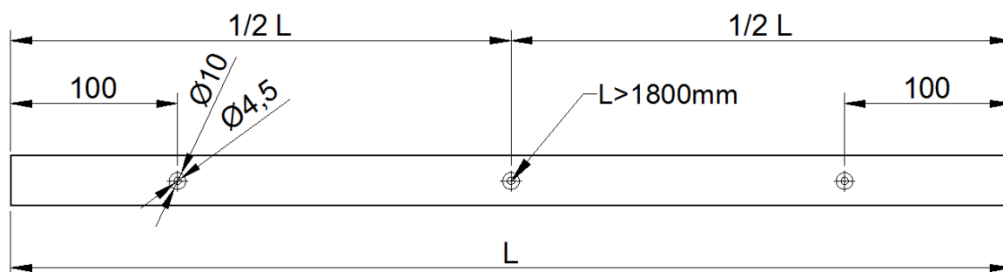


5. Insert the bottom rail (SG37) into the guide. Slide the cover zip into the bottom rail. Then put the guides together - screw the closing profile tight. Special attention should be paid to place the foam absorbers (SGZB) in the right way, as shown in the figure below.

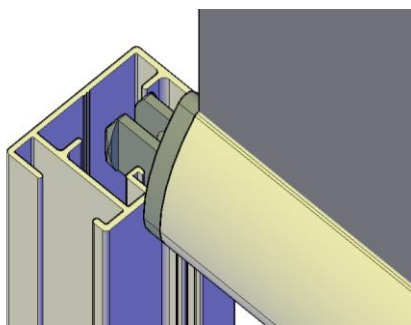


4.3. Installation of roller blinds with standard guides

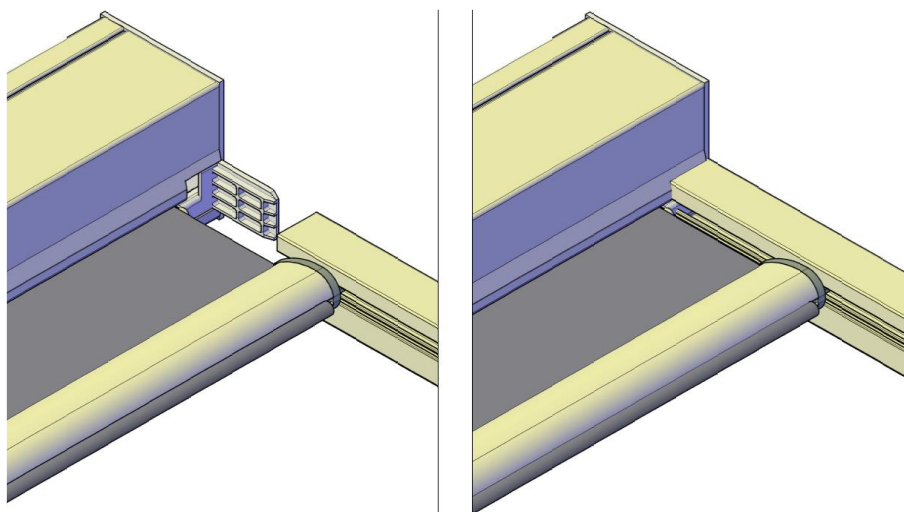
1. Before mounting, make mounting holes in the guides as shown in the diagram below. First with a 4.5 mm drill right through the guide, then with a 10 mm drill only in the first wall of the guide - for the head of the screw (for mounting variant 1a and 1c).



2. Slide the bottom profile plug into the guide from the left and right side.

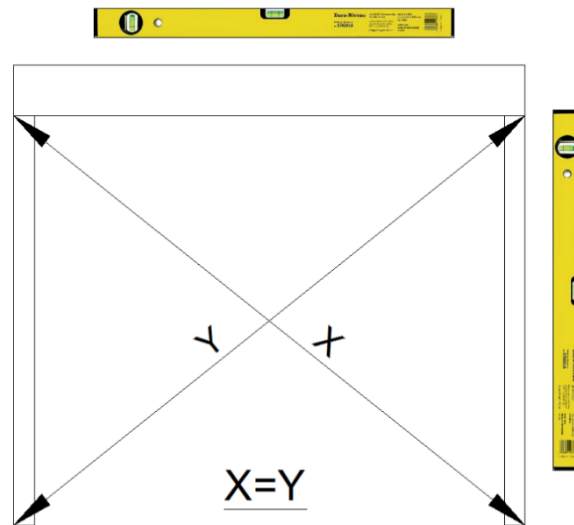


3. Slide the guides into the case side:



4. Place the roller blind close to the window opening or the window frame. Determine the horizontal location of the box, the vertical location of the guides and check the diagonals of the blind as shown in the figure below. At this stage, it is necessary to make an aperture - depending on the control variant - for the cable of the electrical drive system or for the axis of the crank. If all

dimensions are correct, the guides should be permanently mounted and plugs should be put in the place of screw holes.

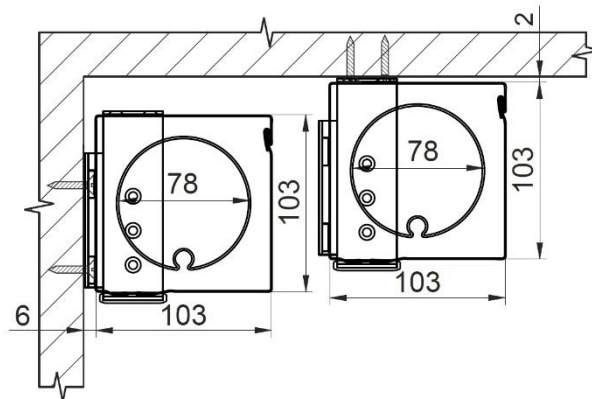


4.4. Installation of roller blinds with rope guidance / without lateral guides



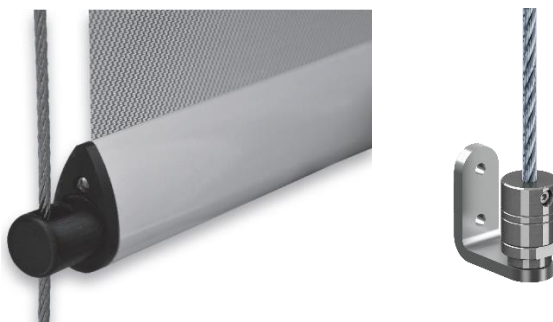
It is forbidden to install roller blinds without lateral guides in a place where they can be exposed to wind loads. Only indoor installation is allowed.

In these models, the roller blind case is not supported on the lateral guides and must be mounted directly to the foundation using the case supports:



Both wall and ceiling mountings of the case are possible.

In case of blinds with lateral rope guidance, the guide rope should be additionally threaded through the holes in the side plugs of the bottom rail. Attach the lower holders of the rope and tighten the rope:



4.5. Setting of motor end positions



The connection of the motor to the power supply may only be made by a person with electrical qualifications

Check the setting of the limit switches for the electrical drive system (see the instructions for the drive model used). The switches should be set in such a way that in the retracted position the tightening of the bottom profile does not cause sagging of the case or the service cover. When the blind is rolled down, the bottom profile should be as close to the ground as possible – but it cannot rest on it. Then the drive should be permanently connected to the electrical installation / control devices.

5. Maintenance



During maintenance, follow the instructions specified in the manual and comply with health and safety regulations.



Disconnect the electrical power supply of the blind before starting any maintenance work.

5.1. Maintenance of mechanical components

The mechanical components of the roller blinds are generally maintenance-free. However, for safety reasons, at least once a year, check the tightness of all visible screws, in particular the screws securing the blind to the foundation. We recommend commissioning these activities to an installer.

Periodically check the lateral guides for dirt, especially if the blind is not used for a long time. Clean the guide channels with compressed air.

The coating should be periodically cleaned with a damp cloth or sponge. Do not use aggressive chemical agents and abrasive agents that can cause discolouration of the paint, loss of gloss and, in extreme cases, damage to the coating.

If a rotating wind sensor is used, it should be periodically checked (visually) whether the impeller rotates during gusts. In case of seizing / blocking of the impeller, contact the supplier.

5.2. Maintenance of the cover

Small impurities can be removed without water, with a clean pencil eraser or a delicate brush. The entire surface of the cover should be cleaned with a 5% solution of soap flakes in lukewarm (about 30 degrees Celsius) water and a sponge or a soft brush. Then the cover should be rinsed with running water. **Never use a jet of water under pressure.** Before you roll the blind up, the cover should be left to dry. If it is necessary to roll the wet fabric up (e.g. due to weather conditions), it should be dried as soon as possible.

6. Failures

The following irregularities in the operation of the roller blind can be removed by the user on their own and are not covered by the warranty service. If the following actions do not bring positive effects, you should contact the service:

- the roller blind with the electrical drive system does not react to the control device commands: first check the power supply of the roller blind circuit – fuses. Visually inspect the power cable (if visible) for mechanical damage. In case of a roller blind operated by a remote control, check and - if necessary - replace the batteries of the remote control - in accordance with the instructions of the control device.
- the roller blind motor starts, but the blind does not roll up or down (you hear the "buzz" sound of the seized motor): check if the bottom profile (fabric ballast) of the blind is not blocked. The bottom profile can be blocked, for example, as a result of using the blind when the wind is too strong or during freezing weather.
- the blind's fabric does not move smoothly: probability of impurities in the guides – check and clean the guides using compressed air.



In all other cases, you should immediately contact the supplier / service. If possible, roll the blind up and turn off its supply circuit (fuse). If it is not possible to turn off the power supply of the roller blind, all control devices (clocks, weather automation system) – if they are installed – should be switched to the manual mode - see the manual of the control devices used.

7.

8. Disassembly and disposal

At the end-of-life stage of the roller blind, its disassembly should be carried out by qualified personnel – contact the supplier.

If the roller blind needs to be disposed of, the process should be carried out in accordance with the applicable local regulations regarding waste management. In particular, you can contact a local company dealing in the recycling of mechanical equipment.

SUNSCREEN roller blinds do not contain hazardous substances.



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