

Tarasola®



Roller blinds – Screener

**ROLLER BLINDS SYSTEM USE
AND OPERATION MANUAL**

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1 SUBJECT OF THE DOCUMENTATION

The purpose of this documentation is to familiarize the user with the intended use of the structure, its principles of operation, and rules regarding handling of the Tarasola-branded product. This booklet also contains guidelines for use and service activities.

2 PRODUCT IDENTIFICATION

The following describes the roller blinds with trade names **Screener 110 ZIP** and **Screener 110**.

This system represents a perfect solution for protecting the building against excessive sunlight, overheating, and wind gusts, without obscuring the view to the outside and ensuring optimum lighting. Additionally, when closed, it forms an excellent barrier against insects and various forms of waste.

Using the system in an informed manner may reduce the air conditioning costs in the facility as well as reduce the greenhouse effect, thus improving the thermal comfort inside the building.

Two system solutions are possible:

1. **Screener 110 ZIP** stands for a solution where side guides are integrated with the fabric – the so-called ZIP system;
2. **Screener 110**, where cord guiding instead of guides is applied.

Electric drive may be used in both systems. In case it is, a remote control or a switch shall be used to operate them.

The fabric winding tube was covered with an upper box, the so-called cassette, making it completely invisible.

System properties, both in terms of its function and its visual appearance, may be adapted in order to match the building façade thanks to a wide range of available fabrics.

The maximum area that can be covered with a single roller blind of a system is 15 m² when appropriate structural dimensions are applied.

Designed in accordance with the EU Council Regulation – CONSTRUCTION PRODUCTS. When properly installed it can withstand the wind pressure equivalent to the 3rd wind class, the criteria of which were established by the standard PN-EN 13561 + A.1: 2009 – EXTERNAL BLINDS AND AWNINGS – performance requirements including safety.

The calculations concerning wind load resistance were performed according to the standard PN – EN 1932: 2013 – 09 – EXTERNAL BLINDS AND SHUTTERS – RESISTANCE TO WIND LOADS METHOD OF TESTING.

Familiarizing oneself with the manual shall ensure the proper functioning of the product.

Compliance with the guidelines therein shall ensure durability of the roller blind.

3 TECHNICAL SPECIFICATION

3.1 Structure

Each roller blind, regardless of the system solution employed, is made of extruded aluminum profiles, coated with a layer of thermally hardened powder varnish.

The roller blind consists of the following elements:

1. Aluminum guides – enable the fabric to be guided properly. The fabric is connected to a zipper mechanism and a PVC guiding insert,
2. Cassette – two profiles put together, for recess or façade installation with inspection access from the front side of the roller blind,
3. Load beam – aluminum profile that ensures the fabric is adequately stretched when fully unfolded,
4. Winding tube – aluminum profile, equipped with a motor (in case of an electric drive), onto which a portion of the fabric is wound,
5. Cover – a reflective fabric of the screen type,
6. Cord, nylon cord – components used in the fabric guiding process, in case of a Screener roller blind.

Note: there may be slight color differences between various suppliers of paint powders.

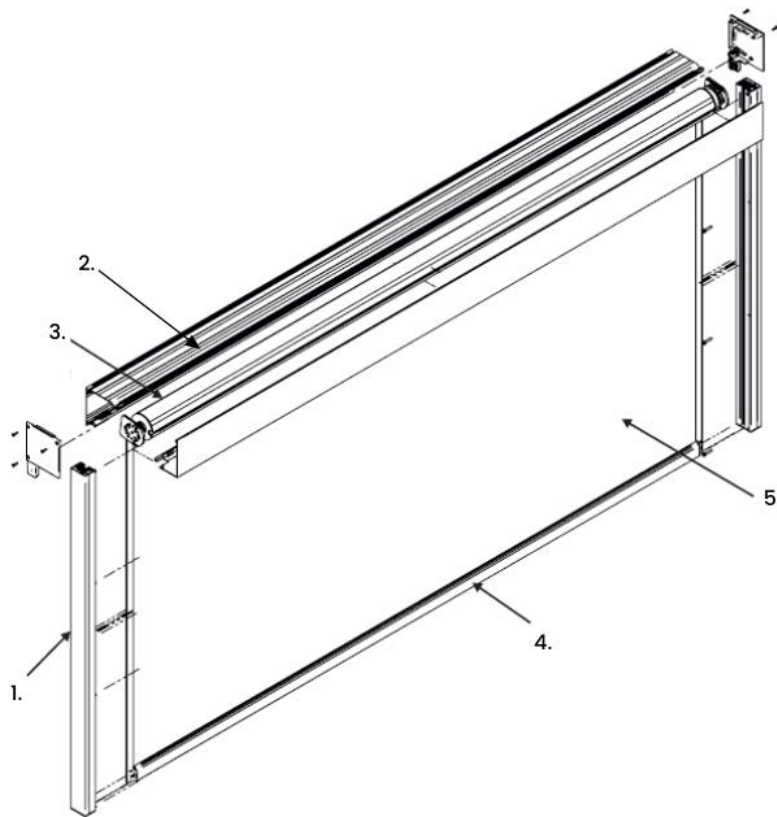


Fig.1 Screener 110 ZIP roller blind components.

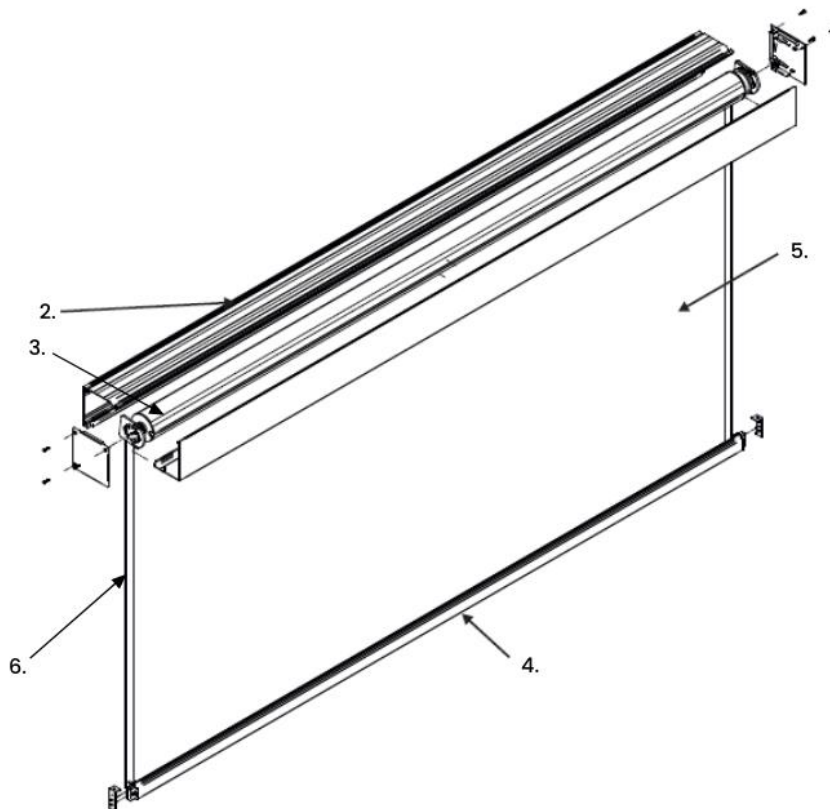


Fig.2 Screener 110 roller blind components.

3.2 Electrical components

Tarasola cooperates with the best suppliers on the market in order to ensure the highest level of offered products. Thanks to the electrical components used in our products, we are offering a comprehensive product to our Clients – the best on the market.

Controlling a set of roller blinds may be done by:

- the use of properly designed relay (TR) and switch systems.
- single or multi-channel remote controller. The transmitters and receivers shall be programmed in accordance with the installation manual supplied with the motors.

WARNING! Due to the complexity and specificity of the product, installation shall be performed by qualified personnel. Any actions inconsistent with the guidelines may cause a potential threat and void the warranty.

ELECTRIC MOTOR A motor with a built-in radio receiver and an electric limiter. Secure coding system. Simple programming and maneuvering. All operations are controlled by the motor, and it works at low speed. Operation via remote or local controller.

Installation remarks

The protection rating of a motor installed outside stands at IP 44. However, if the switch shall be installed internally then its protection rating may drop to IP 40. The voltage supplied to the motor must be 230 V. The wiring must be insulated.

Motor connection diagram is presented below.

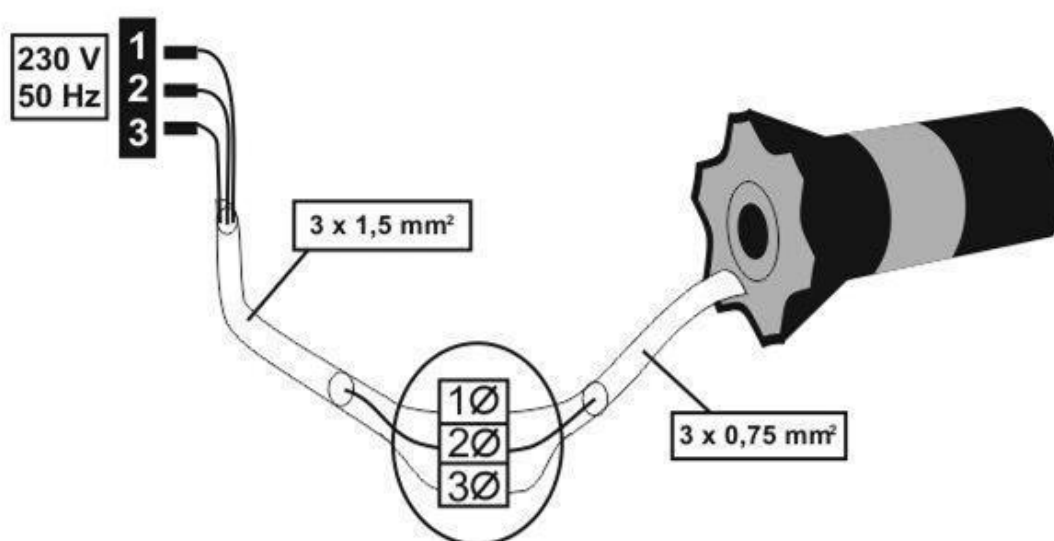
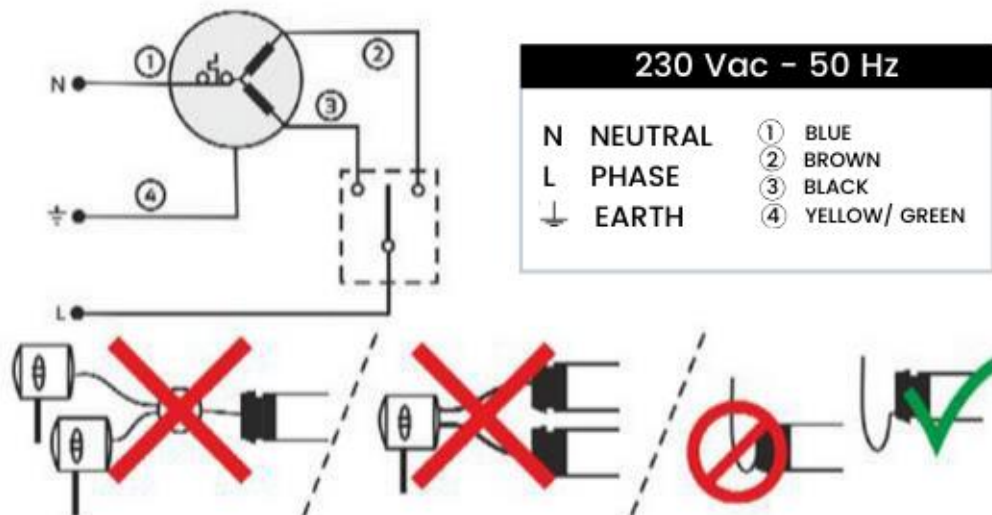


Fig.3 Electrical drive with remote control.



Rys.4 Electrical drive with a switch.

It is not recommended to connect more than one motor to one switch (and vice versa). The exception is having a switchboard.

WARNING!

All wiring connection diagrams shall be obeyed, otherwise warranty may be voided.

REMOTE CONTROLLER

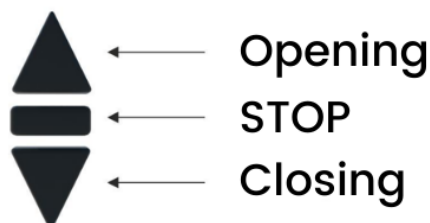
- Manual radio control of one or more RTS drives and/ or radio receivers or a group of RTS drives and/ or radio receivers.
- Handling of a single device or a group of devices is possible.
- Stopping the motion and/ or forcing the motion via a convenient button.
- Remote controller is equipped with an adjust function which enables, for e.g., intensity of illumination to be adjusted.
- A convenient LED indicates that an action was requested by the user and enables selection of a channel in the remote controller (in case of multi-channel remote controllers).
- Wireless, battery powered remote controller(CR 2430 battery).
- Power supply: 230V - 50Hz.
- Working temperature: -25°C / + 70°C.
- Protection rating: IP 44.
- Radio frequency: 433.42 MHz.

After installing a roller blind with electric drive, it shall be connected to a previously prepared wiring and control systems.

When the roller blinds are switched on please pay particular attention to:

- proper unwinding and winding of the fabric,
- correct operation of the limit switches set by the manufacturer.

A detailed description of the operation of electrical components can be found in a separate user manual.



IN THE EVENT OF A FAILURE OF THE ELECTRICAL SYSTEM OF THE STRUCTURE, IMMEDIATELY DISCONNECT THE MAIN POWER SUPPLY OF THE CANOPY AND REPORT THE FAILURE TO THE MANUFACTURER. ONLY QUALIFIED PERSONNEL SHALL ENGAGE IN REPAIRING THE ELECTRICAL SYSTEM. ANY ACTIONS CONSTITUTING SELF-REPAIR AND NEGATIVE EFFECTS OF SUCH ACTIONS MAY RESULT IN THE WARRANTY BEING VOIDED.

3.3 Fabric components in the roller blind

Materiał tworzony jest z komponentów trwałych i odpornych na zmienne warunki pogodowe, termiczne i mechaniczne. Do szycia używamy multiflamentowych, poliestrowych nici SERAFIL®, natomiast tworzywo stosowane w produkcji materiału to m.in. PTFE (politetrafluoroetylen) oraz PVC (polichlorek winylu), scalone ze sobą technologią wysokiej częstotliwości – High Frequency Welding.

The fabric is made of durable components which are resistant to changing weather, thermal, and mechanical conditions. For sewing, we use multi-filament polyester SERAFIL® threads, while the material used in the fabric manufacturing process is, among others, PTFE (polytetrafluoroethylene) and PVC (polyvinyl chloride), joined together by high frequency technology – High Frequency Welding.

SERGE 600 (AEROFLEX)

Fabric consists of 42% fiberglass and 58% PVC (polyvinyl chloride) weight: 535g/m², 1st class of fire resistance UNI 9177, absorbs sunlight almost completely.

Cleaning and care: water, soft cloth + soap.

SOLTIS 86

1100 Dtex polyester with double-sided PVC coating; micro-perforated PVC cover; shiny coating; weight: 380g/m²; max. stretch: warp – 230kg, weft – 160kg; 1st class of fire resistance UNI 9177-87.

Cleaning and care: water, light detergent + soft cloth.

SOLTIS 92

1100 Dtex polyester with double-sided PVC coating; micro-perforated PVC cover; shiny coating; weight: 420g/m²; max. stretch: warp – 310kg, weft – 210kg; 1st class of fire resistance UNI 9177-87.

Cleaning and care: water, light detergent + soft cloth.

SOLTIS BLACK OUT

1100 Dtex polyester with double-sided PVC coating, micro-perforated PVC cover; shiny coating, weight: 540 – 750g/m²; 1st class of fire resistance UNI 9177-87.

Cleaning and care: water, light detergent + soft cloth.

SUNWORKER

Openness 6%, weight: 320g/m², reflects up to 95% of heat, reduces heating costs, covered with a special color coating that protects from UV radiation.

Cleaning and care: water, light detergent + soft cloth.

SOLTIS 96-W96

1100 Dtex polyester with double-sided PVC coating; micro-perforated PVC cover; shiny coating; weight: 420g/m²; max. stretch: warp – 220kg, weft – 220kg; 1st class of fire resistance UNI 9177-87; only the W96 fabric is 100% watertight.

Cleaning and care: water, light detergent + soft cloth.

SUNWORKER OPAQUE

Openness of 0% with double-sided PVC coating, enables total blackout, reflects up to 97% of the heat from sunlight, a special coating protects against UV rays, 1st class of fire resistance, weight: 510g/m².

Cleaning and care: water + soap.

SUNWORKER CRISTAL

Fabric with openness of 4%, controls light penetration, provides exceptional translucency, reflects up to 95% of the heat coming from sunlight; a special coating protects against UV rays; 1st class of fire resistance; weight 440g/m²; tear resistance (DIN 53363): warp 69cm; 100% watertight.

Cleaning and care: water, light detergent + soft cloth.

3.4 Technical limitations of the fabrics

Rot resistance – the canopy fabrics are usually made of synthetic materials, which do not contain any biodegradable substances. This, in turn, makes them rot-proof. The accumulation of dirt and other naturally occurring substances on the fabric surface, coupled with moisture, may create very good conditions for fabric degradation. Folding of a damp fabric may have an additional negative effect on the condition of the fabric and may cause change in its color. It is important to let the fabric dry before folding it.

Waves – may form close to the sewing or welding of the fabric as well as on the side of the edge, due to double thickness of the fabric

Fraying and abrasion – if the canopy is exposed to constant high winds, it may show signs of wear, tear, and abrasion. This may occur after many years of misuse.

Weld – a surface where welded materials are joined. It's characterized by homogeneous, aesthetic appearance, high strength, and tightness. The appearance of the fabric in the place of welding may differ slightly from the appearance of the place where no welding was performed on the fabric. Materials demonstrating thermoplastic properties may be subjected to the welding process. The resulting joint is additionally stabilized as the fabric takes a moment to cool down under the pressure exerted by the press.

4 ROLLER BLINDS USER MANUAL AND GENERAL SAFETY REGULATIONS

Compliance with the rules presented below shall ensure proper functioning and avoidance of breakdowns resulting from improper use.



The roller blind may only be installed vertically.



This roller blind may only be used when the outside temperature is between -25°C and +70°C, due to the specificity of the drive's operation.



In the event the blind is used as sun protection, it is recommended not to fully close it, thus ensuring air circulation between the window and the roller blind.



Roller blinds with electromechanical drive may only be used for intermittent operation. The continuous operation of the roller blind must not exceed 4 minutes.



The roller blind shall be used for a maximum of 50 opening and closing cycles per day.



Repeated unfolding and folding of the roller blind may overheat the electric drive, thus activating the thermal switch which shall disconnect the power supply. The motor shall remain off until the temperature is adjusted.



It is forbidden to use the blind in conditions and for purposes different to those provided for by the manufacturer, which shall be to act as sun, rain, and wind protection.



It is forbidden to place any items, install additional fixings, hooks, hangers on the component aluminum profiles that make up the structure – this increases the risk of damage and shall result in product warranty being voided.



It is forbidden to place any items or objects on the material of the blind.



When unfolding the roller blind, please make sure that there are no people or objects in its path of movement.



Before folding the roller blind, please remove any dirt that may cause mechanical damage to the material or the frame itself.



Be careful when unfolding and folding the roller blind. Due to the risk of damaging one's hands, it is forbidden to touch the roller blind when it is in work mode.



It is forbidden to move the fabric cover of the roller blind upwards using hands or any tools. This may cause the roller blind to malfunction or cause direct damage to the roller blind.



The roller blind is not a self-cleaning structure. Cleaning shall be performed only after turning off the electric power supply of the roller blind. Cleaning agents are recommended for this – they are listed, for each type of fabric, in section (3.3 Fabric components in the roller blind) of the Manual.



The use of highly corrosive cleaning agents may damage the fabric. The manufacturer shall not be liable for such damage. The impregnating agents used within the fabric of the roller blinds require cleaning with a cloth and water only.



Maintenance work shall be performed when the roller blind is not working.



Do not use sharp or rough tools to clean the roller blind. Clean the surface with water and a small amount of light detergents with a neutral pH (such actions shall be performed when the outside temperature stands between 10°C and 25°C).



Protect the roller blind against aggressive or corrosive substances, such as saltpeter derived from mortar, acid, lye or salt, as well as against mechanical damage. Strong cleaning agents may cause corrosion or discoloration of the paintwork.



When removing greasy stains (for e.g. oils, soot) or residues of adhesives – rubber, silicone, self-adhesive – please use agents without aromatized petrol hydrocarbons.



During frost and snowfall the profiles may become covered in ice. In such a case please do not try to unfold and fold the roller blind. The roller blind shall only be used after de-icing.



Due to the design of the roller blind, the guide rails shall be checked for the presence of ice before unfolding or folding the roller blind, particularly during cold temperatures. Icing may damage the components of the guides themselves as well as the electrical components and this shall not be covered by the manufacturer's warranty. It is recommended to check the flow capacity of the guides each time before using the roller blind (in case any foreign matter, such as leaves, sticks, insects or animals got inside).



When the roller blind is going to be unfolded for the first time after the winter, please support the guiding of the fabric – it may be “sticky” due to the fact that the fabric panel was folded for a long time when the fabric was winded onto the roller tube in the profile cassette.



If there is a possibility that the roller blind becomes iced, all electrical components shall be switched off immediately. In case the drive is equipped with an overload protection or an obstacle detection system, it shall not be necessary to switch off the electrical components.



It is forbidden to unfold the roller blind during snowfall and hail. Failure to comply with this recommendation may damage the fabric, reduce its properties and, as a result, tear it.



During rainfall, snowfall, hail and strong winds (exceeding the permissible standards for a given size of the roller blind), the roller blind shall be folded immediately. Failure to comply with the above recommendation increases the probability of damage, destruction of the roller blind or accident, as well as loss of warranty.



Unfolding the roller blind during strong winds may bring about a number of consequences:

- 1) jamming of the guides,
- 2) continuous motor operation,
- 3) unfolding of the fabric inside the cassette,
- 4) destruction of the fabric as a result of damage.



Due to temperature differences, dew may appear on profiles and on the fabric, as well as condensation of water vapor under the cassette profile may occur – this shall not be deemed a product defect.



Shade differences between aluminum elements coming in in different batches of the product may occur.



In the event of heavy wind and heavy rainfall, there is a possibility that rainwater may enter between the profiles making up the roller blind structure, which in turn may result in a leak inside the roller blind frame.



It is recommended to check the condition of the roller blind's fabric at least twice a year – in springtime, before the start of the summer season, and in autumn, before the roller blind is folded for the winter season.



Taking into consideration the high level of pollution which leads to acid rain, and in case the roller blind is installed near roads, air channels, forests, trees with a risk of resin contamination, and additionally it is not cleaned immediately after contamination, then the profiles may get dirty, making it impossible to clean them later.



The installation of the roller blind is a clean job, so it is not advisable to install the roller blind during an ongoing renovation. It is best to postpone the installation work until after the renovation shall be completed. In case a roller blind is installed during a renovation, then it is best to dismantle such an installed roller blind in order to avoid possible damage to the varnish-coated cassette or the fabric.



Please contact the Manufacturer in the event of a malfunction or failure of the roller blind. Users shall not make any repairs to a faulty roller blind themselves.



The manufacturer shall not be liable for random events affecting the product, such as: weather conditions below/ above the standards presented in the product sheet; as well as electromagnetic disturbances, electrical discharges and power surges.



In the event of a failure of the roller blind suspension system, the roller blind shall be brought to a resting state and shall be kept safely in this position until the arrival of the service team.



It is forbidden for children to play with the remote control or the switch that operates the roller blind. Please keep the remote control out of the reach of children. Only adults shall operate the roller blind.

THE MANUFACTURER SHALL NOT BE LIABLE FOR INCORRECT USE OF THE ROLLER BLIND RESULTING FROM FAILURE TO COMPLY WITH THE USE AND SAFETY REGULATIONS PROVIDED IN THIS MANUAL.

5 CERTIFICATES

Tarasola®



Lublin, 10.01.2024

DECLARATION OF CONFORMITY UE

Nr 014/2024

Tarasola Sp z o.o., ul. Hugo Kołłątaja 5/2, 20-006 Lublin, NIP: 7123459478
hereby declares that the product:

Screeners 110 ZIP

Trademark: **Tarasola®**

It is compatible with the following provisions of implementing provisions in the scope of its regulation implementation of the directives The European Parliament and of the Council (with all the subsequent amendments and supplements):

2006/42/WE – MACHINERY DIRECTIVE
2014/35/UE – LOW VOLTAGE DIRECTIVE

Demonstrating that the harmonized standards and / or technical specifications listed below have been applied:

PN-EN 13561:2015-07 – CURTAINS AND AWNINGS – PERFORMANCE REQUIREMENTS INCLUDING SAFETY
PN-EN 60335-1:2012 – HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY – PART 1: GENERAL REQUIREMENTS
PN-EN IEC 60335-2-97:2023-11 – HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY IN USE, PART 2-97: PARTICULAR REQUIREMENTS FOR DRIVES FOR ROLLING SHUTTERS, AWNINGS, BLINDS AND SIMILAR EQUIPMENT
PN – EN 1932:2013 – 09 EXTERNAL BLINDS AND SHUTTERS. RESISTANCE TO WIND LOADS. METHOD OF TESTING AND PERFORMANCE CRITERIA

Tarasola Sp. z o.o
ul. Hugo Kołłątaja 5/2, 20-006 Lublin
NIP 7123459478 KRS 0001050175
REGON 525986180

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insofar as it is correctly installed, used in accordance with its intended purpose, applicable regulations, standards, instructions for use and good engineering practice.

This declaration of conformity is the basis for marking the product with the mark **CE**

This declaration relates to the pergola as placed on the market and does not cover components added by the end user or activities carried out by him.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

On behalf of the manufacturer signed:

Lublin, 10.01.2024

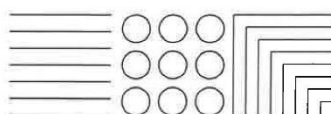
Tarasola Sp. z o.o.
ul. Hugo Kołłątaja 5/2, 20-006 Lublin
NIP 7123459478, REG. 525986180
KRS 0001050175

Prezes Zarządu
Piotr Gębacz

CEO

Tarasola Sp. z o.o
ul. Hugo Kołłątaja 5/2, 20-006 Lublin
NIP 7123459478 KRS 0001050175
REGON 525986180

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DECLARATION OF CONFORMITY UE

Nr 013/2024

Tarasola Sp z o.o., ul. Hugo Kołłątaja 5/2, 20-006 Lublin, NIP: 7123459478

hereby declares that the product:

Screener 110Trademark: **Tarasola®**

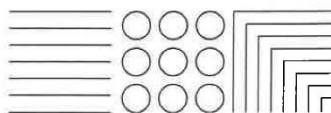
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2006/42/WE – MACHINERY DIRECTIVE**2014/35/UE – LOW VOLTAGE DIRECTIVE**

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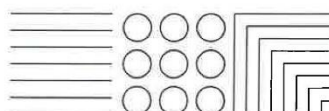
Prezes Zarządu

Piotr Garbacz

CEO

Tarasola Sp. z o.o.
ul. Hugo Kołłątaja 5/2, 20-006 Lublin
NIP 7123459478 KRS 0001050175
REGON 525986180

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