

# OPERATING AND MAINTENANCE INSTRUCTIONS

## LAMELINO



### GENERAL INFORMATION

These instructions are intended for all users of the Lamelino bioclimatic pergola by SERVIS CLIMAX a.s. Read the instructions carefully before you use the product for the first time and keep them for the entire life of the product. All products by SERVIS CLIMAX a.s. are covered by a 4-year warranty. Manufacturer: SERVIS CLIMAX a.s., Jasenice 1253, 755 01 Vsetín, Company registration No.: 25352628

Thank you for purchasing SERVIS CLIMAX a.s. products.

## APPLICATION POSSIBILITIES

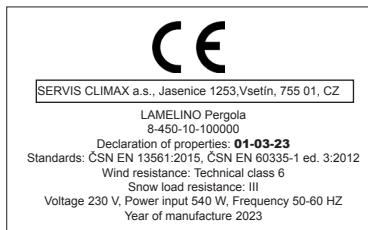
The bioclimatic pergola is used as protection from the sun and rain.

**It is not designed to serve as protection from snow!**

## PRODUCT CERTIFICATION

The Lamelino bioclimatic pergola by SERVIS CLIMAX a.s. is manufactured in accordance with ČSN EN 13561, ČSN EN 60335-1 and bears the CE mark.

EMC and electrostatic phenomena - Risk minimised; see the SZÚ test report



## IMPORTANT INFORMATION

Each owner, operator and member of personnel responsible for the installation, set-up, operation, and maintenance of the bioclimatic pergola must read this manual and follow all the instructions provided herein. The operator responsible for installation and maintenance must also meet the qualification requirements for the use and maintenance of the bioclimatic pergola. The operating manual is intended for all persons who use the bioclimatic pergola, such as the installer, manager, owner, and user, and forms the basis for the proper use and maintenance of the product. The handling, unpacking, installation, adjustment, maintenance, and warranty instructions are addressed to the installer. The instructions for proper use, maintenance and disposal are meant for the owner. These instructions form an integral part of the product. Keep it in its entirety in an easily accessible place for future use and further reference until the bioclimatic pergola is disposed of. If the instruction manual is lost or destroyed, the customer must request a new copy from the dealer, giving the main details of the product and place of delivery of the new copy. The instructions must be included in the delivery of the bioclimatic pergola when sold. The instructions must always be available to qualified personnel for installation, maintenance or inspection for required registration. The manufacturer reserves the right to update the products and the relevant instructions without having the obligation to update any previous instructions. These instructions are a necessary tool for retaining the warranty.



This symbol indicates a potential hazard.



This symbol indicates important notes.

## SAFETY INSTRUCTIONS



No objects or person may enter the tilting (opening/closing) area of the pergola slats! To prevent injury, do not reach into moving parts when opening and closing the bioclimatic pergola.

**The bioclimatic pergola must be open (with the slats vertical) in the following conditions:**

- Wind force of over 25 m/s (corresponds to technical class 6)
- **Snow and ice**
- Absence
- Storm (strong wind gusts, heavy rain, hail)  
(failure to comply may result in significant damage)



The Lamelino bioclimatic pergola meets the requirements of wind resistance class 6 (ČSN EN 13561, ČSN EN 60335-1). The wind class resistance achieved after installation depends crucially on the type and number of fixing elements as well as the underlying surface. Check the product at regular intervals for any signs of wear and for clogged gutters and drain holes in the posts of the bioclimatic pergola.

If you detect a failure, do not continue to use the bioclimatic pergola. Disconnect it from the power supply and contact your supplier immediately.

Any tampering with the product without prior consultation with the supplier is unacceptable in terms of product safety and performance. It is prohibited to apply additional loads to the bioclimatic pergola as it may cause damage or the collapse of the bioclimatic pergola.



Place the controls out of reach of children.

The bioclimatic pergola may be activated inadvertently. The bioclimatic pergola must be disconnected from the power supply (e.g. by switching off the circuit breaker) for maintenance and cleaning.

Leaves and other foreign objects on the slats must be removed immediately as there is a risk of damaging the bioclimatic pergola.

The manufacturer is not liable for damage caused by the force of wind.

- At wind speeds of over 17 m/s we recommend opening the bioclimatic pergola (to set the slats in the vertical position).
- **At winds speeds exceeding 25 m/s, it is absolutely necessary to open the bioclimatic pergola (to set the slats in the vertical position) to prevent damage.**

The corrosion protection of the bioclimatic pergola is not guaranteed if used in salty environments or when exposed heavily to salt mist. Incrustation or bubbles in the joints or aluminium profiles as well as oxidation may appear. These conditions are not covered by warranty.

The bioclimatic pergola has been designed to withstand static loads of up to 150 kg/m<sup>2</sup> (without wind), which corresponds to 30 cm of wet snow, for example. For that reason, it is necessary to open the slats in the vertical position in the event of snow! It is recommended to use a snow sensor to prevent the presence of snow on the slats.



**Never stay under or near the bioclimatic pergola if the roof is covered with snow!**

The bioclimatic pergola guarantees 97% water resistance (it is a bioclimatic pergola, not a full roof); the joints are not sealed and water may leak through the its joints in the corners and through the LED light diffuser. In heavy rain, water may deflect from the trusses and spray under the bioclimatic pergola.

The manufacturer is not liable for the consequences of integration with other building elements (the use acknowledges that there may be water ingress between the structure of the bioclimatic pergola and the facade of the house, for example).

After rainfall, it is recommend to open the slats of the bioclimatic pergola slightly so that the residual water can drain from the slats and into the gutters. If the slats are opened abruptly, the residual water may get under the bioclimatic pergola.

## CONTROL

The bioclimatic pergola is driven by a piston motor. Any malfunction of the electrical equipment may only be remedied by a qualified electrician.

### Opening / closing the bioclimatic pergola:

#### Using the remote control:

- The LAMELINO bioclimatic pergola is controlled by a remote control, which is not included with the product. This remote control can also operate the lights and vertical facade screens, if fitted to the pergola.
- The remote control is powered by a CR2430 battery; replace the battery if necessary. If the remote control still does not work despite a replaced battery, contact your supplier.
- Only use the remote control if you have full control over the movements of the bioclimatic pergola. We recommend keeping the remote controls in a dry place to prevent them from getting damaged.
- Use buttons on the individual types of remote control to operate the pergola. The remote control usually includes two buttons and a wheel. They are the UP (opening) and DOWN (closing) movement buttons; the wheel can be used to move the pergola by small increments. Press the button to move the pergola in the desired direction or to stop. When the end position is reached, the motor stops automatically. The end positions are set in the factory. Each remote control type comes with its dedicated operating manual included in the packaging. **Using sensors:**

#### Using sensors:

- If a wind sensor is used, the command overrides the remote control.

#### Restoring functionalities after power failure



After a power failure, the control unit needs to go through the entire open/close cycle to operate.

This means that if you give the up or down command, the slats move towards the nearest end position. Once they reach it, they stop and continue to the other end position.

During this process, the control unit ignores any other commands and only responds to STOP, after which any additional command results in completing the cycle.

Only then can the pergola be operated in the standard fashion.

## ATTENTION



Never open and close the bioclimatic pergola multiple times in immediate succession. If the bioclimatic pergola is opened too frequently, the motor can overheat and shut down (via an automatic safety switch). After cooling (15 - 20 minutes), the motor is again ready to operate again.

Please note that in extreme cases, the bioclimatic pergola can be damaged by the force of wind even when a wind sensor is used. (A certain time is needed for the open command to be executed after it is issued. For this reason, a situation may arise where the force of strong gusts of wind increases suddenly and exceeds the safe limit over a very short period of time. Damage may also occur during opening or at the very beginning of the opening movement even if the automatic system responds correctly and in time).

**If the bioclimatic pergola inadvertently remains closed and ice or snow has formed on it, do not open it until you have removed the snow or defrosted the pergola. Otherwise the bioclimatic pergola may be damaged.**

The motor of the bioclimatic pergola must not be used in temperatures below 3°C!

Never leave the bioclimatic pergola closed and unattended in winter. The slats may freeze onto each other or to other components, thus damaging the product (open the slats if there is a risk of freezing).

## BIOCLIMATIC PERGOLA MAINTENANCE AND CARE



In order to ensure a long service life and keep the bioclimatic pergola perfectly operational and safe, observe the following instructions:

- **Clean** the bioclimatic pergola regularly to prevent the formation of dirt deposits, and to preserve the appearance and proper performance of the bioclimatic pergola.
- Oil and grease stains can be removed with special boiling point spirit and a soft, absorbent cloth (preferably cotton).
- **Do not use** strongly alkaline cleaning agents such as caustic potash, caustic soda, baking soda, strong acidic agents or aggressive abrasives.
- The metal parts of your bioclimatic pergola have been provided with sufficient surface coating. To keep your pergola looking great, wipe them with a soft, woollen cloth regularly. Heavily soiled painted parts can be cleaned with regular car paint cleaners.
- **In order to maintain the proper performance of the bioclimatic pergola**, it is recommended to check the condition of the slats, gutters, beams, and drainage holes in the posts at least twice a year (in spring before the start of the summer season, and in autumn before the winter season) and clean them of leaves, twigs and similar undesired debris.



### Maintaining the structural and mechanical components:

- **Twice a year, check the** tightness of all screws and fasteners.
- **Twice a year**, check that the elements securing the structure to the floor are in perfect condition. Check the condition of the floor around the fastening elements
- **Continuously** check the support structure visually. If necessary, clean the surface of the aluminium profiles of dirt, dust and smog with paper tissues and a wet sponge.
- **Continuously** check proper operation of the remote control and of the lights.
- **If necessary** (undesirable noises such as creaking, squeaking), clean and lubricate the moving parts of the bioclimatic pergola (with silicon spray or WD-040, for example).

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Use the designated collection points to dispose of the packaging and the product itself, including its electronic components.

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