

WAREMA slat roof Lamaxa L50

User instructions



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1 Introduction

1.1 Information on safety

It is important to follow these instructions in the interest of personal safety. Failure to comply with these instructions when operating the product may result in personal injury and/or property damage. Failure to comply with these instructions relieves WAREMA of liability.



Warnings are marked in the instructions with this symbol or a similar symbol.



- Read through the product instructions before use.
- Observe the safety, operating and maintenance instructions.
- Include these instructions when passing the product on to a new owner.
- Keep the instructions for use until you dispose of the product.

1.2 Information on the target group and application of these instructions

Target group

These instructions are directed at people who operate, care for and/or maintain the product.

The activities listed in the "Maintenance" chapter are only permitted to be executed by a qualified specialist.

Contents

These instructions are an integral part of the following product: slat roof Lamaxa L50

The instructions contain important information on the operation, care and maintenance of this item. They describe how to operate products with WAREMA standard drives. Other drives and special solutions are not dealt with.

Permissible activities

Performing tasks on the product that are not described in these instructions is not permissible. No other alterations, additions, conversions or maintenance work is to be carried out on the product other than as described in these instructions without the written approval of WAREMA.

1.3 Explanation of signal words



DANGER

Identifies an imminent danger that may result in death or serious injury.



WARNING

Identifies a potential danger that may result in death or serious injury.



CAUTION

Identifies a potential danger that may result in light injury.



NOTICE

Identifies a potential situation that may result in product or property damage.

1.4 Basic safety instructions

The safety instructions and warnings described here are intended to safeguard your health and to protect the product. These instructions must be read carefully and followed.

Damage resulting from inappropriate use or the failure to follow these instructions is not covered by the warranty. Liability will not be accepted for secondary damage.

General operation

The operation of a faulty product may injure persons and/or damage adjacent parts.

- ▶ Only operate the product if it is in technically perfect condition.
- ▶ If the product makes unusual noises or movements, stop using it immediately and inform a qualified specialist.

Possible risk during operation

Incorrect operation can result in personal injury. The movements of the product can lead to crushing of the limbs.

- ▶ While the product is moving, do not reach between the moving parts.
- ▶ Do not reach into openings on the product while operating the product.

Monitoring duty during operation

Failure to monitor the product while it is moving may result in personal injury and property damage.

- ▶ Keep people and animals out of the projection area.
- Remove obstacles from the projection area.

Operation in the event of a power supply interruption

An electrically-operated product cannot be operated without power. closed product may be subjected to impermissible loads when bad weather fronts pass over or during power failures. This may also result in serious personal injury and/or damage to the product.

 In windy areas with frequent power failures, manual emergency operation or an emergency power supply should be considered

Notes on use, LED strips/RGB strips (if present)

Risk of eye injury from incorrect use of LED strips/RGB strips!

▶ The LED strips/RBG strips produces a dim light. The maximum brightness is not sufficient for reading.

Accessing the operating element (electrically operated product)

The operating element is not intended for children to use. Children are unable to recognize the danger associated with the product. Persons can become injured from careless use.

- ▶ Do not allow children to play with the locally installed control system or operating element.
- ▶ The hand-held transmitter must be kept out of the reach of children.

Operation in wind

When the slat roof is open, it will only be able to withstand the loads associated with the specified wind speed limits.

- ▶ When a bad weather front is approaching, the slats of the product must be closed.
- ▶ The slats of the product must be closed when the specified wind resistance class is exceeded.
- In case of full-side glazing or sliding shutters, the sliding elements must be moved to the side (opened) in high winds (over 13 m/s).
- ▶ All other movements by the product must be prevented under heightened wind loads.

Operation in icy conditions/winter (general procedure)

The operation of the product with temperatures around or below the freezing point can lead to malfunctions and/or damage to property in the case of unfavourable installation and building situations. After an impact with condensation water, rain or snow the product can freeze up with low temperatures.

- ▶ Before operation the product must be freed from snow and ice in order to make it operable.
- ▶ The operation of the product while iced over is forbidden.
- In case of snow, the slats of the slat roof should be opened.

Operation in winter (product with control system)

Products operated by a control system may start moving at any time and without prior notice. After an impact with condensation water, rain or snow the product can freeze up with low temperatures. Operation of the product may cause damage.

When using a control system without an ice alarm, the automatic control mode should be switched off in winter.

Roof avalanches from nearby buildings may damage the slat roof.

Heavy snowfall and sleet are possible in winter. As temperatures rise, accumulated snow may slide off of unprotected areas (e. g. house roof) and drop down onto the slat roof. This may damage the slat roof.

- ▶ If falling snow cannot be prevented entirely, suitable measures must be taken to stop the snow from falling in an uncontrolled manner.
- It is recommended to install snow bars in the area of the slat roof or to install snow guards along the entire roof.

Malfunction due to leaves or foreign objects

External sun shading systems are exposed to weather and environmental influences. Depending on the location, leaves and other foreign objects can cause the product to malfunction.

▶ Remove leaves and other foreign objects from the beams.

Risk of damage to the product

An additional load can damage the product and/or cause it to detach from its mount.

▶ It is not permitted to step on the product.

Freezing of drainage channels in winter

In winter, snowfall may occur. Heat from the sun will begin to melt the snow. In cold and shady areas, melt water will refreeze. Down pipes may freeze and burst open.

▶ In locations that frequently experience icy conditions, the installation of an antifreeze device (e. g. gutter heating) is recommended in gutters and/or pipes.

soiled drainage (for slat roof)

Gutters may clog with leaves, moss and dirt. This may cause the gutters to overflow when it rains.

▶ Gutters without or with an insufficient gradient must be inspected and cleaned more frequently.

2 Product information

2.1 Intended use

The following details apply to the following product: slat roof Lamaxa L50

The product is a weather-proof, large-area external sun shading system that may be used for protection against heat and weather and for glare control. The product is used to shade residential and commercial areas.

The rotatable slats can be used to reduce or prevent direct sunlight from the top.

When closed, water is drained to one side via the slats and is drained away via the drainage gutters on the beams. For structural reasons, the drainage gutter does not have a slope and water may remain in the gutter for extended periods.

Raindrops can enter the interior in the following cases:

- ► Heavier rain events than tested by WAREMA.*
- ▶ When the slats are opened after a downpour.
- ▶ Rainwater splashing out of the drainage gutter. It can be prevented by means of the optional protection profile.
- ▶ Condensation that can form under the slats depending on the weather .
- ► Strong or changeable gusts of wind
- ▶ Droplets can form on the frame and on the poles.
- * Examined rain event;
 - ► Lamaxa withstands a medium rain event that occurs every 2 years for 5 minutes [(350 l/(s*ha) equivalent to 126 l/(h*m²)]
 - ► Lamaxa withstands rain class 2 [56 l/(h*m²)]
 - ▶ Requirements:
 - a) 1 drainage present for a large Lamaxa (order width x order length) ≤ 16 m².
 - b) 2 drainages for a large Lamaxa (order width x order length) > 16 m².
 - c) Free-standing Lamaxa slat roof. When connected to the wall, facade water may also be an issue, increasing the quantity of water to the point where the tested rain event is exceeded.

Inappropriate use may result in serious hazards.

All closures and awnings intended for external use are designed to handle a wind load of 1.1 kN/m² when retracted.

The directive entitled "Wind loads for construction of closures and awnings when retracted – Section 5.1.1" defines the positions at which these products can be installed without requiring special precautions [published by the Bundesverband Rollladen + Sonnenschutz e. V. and ITRS Industrieverband Technische Textilien - Rollladen - Sonnenschutz e. V.].

Additional loads on the product in the form of hanging objects could damage the product or cause it to detach from the wall and are therefore not permitted. WAREMA will not be liable for any ensuing damage.

The intended use also includes observing these instructions and adhering to the service requirements they describe.

Optionally:

LED strips

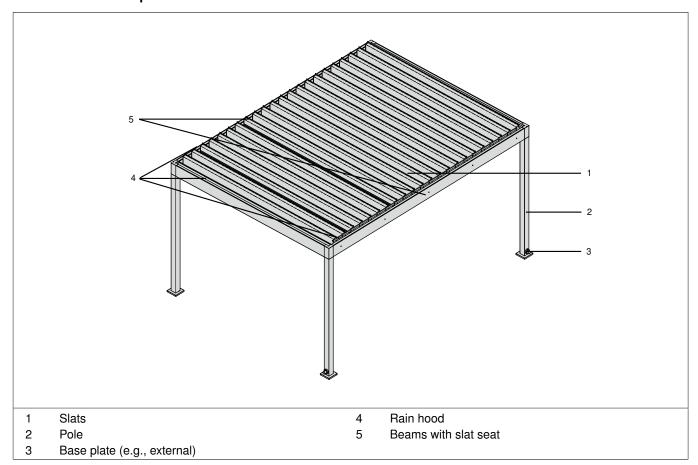
The product consists of an electronic LED lighting device (warm white light) for outdoor installation. In the slat roof, the power supply of the LED strips is provided via the WMS Dimmer smart.

Optionally:

RGB strips

The product consists of an electronic lighting device make of RGB LEDs for outdoor installation. In the slat roof, the power supply of the RGB-LED strips is provided via the RGB Dimmer ZigBee.

2.2 Parts description



2.3 Electrical data

Data for electric drive of slat roof

Parameter	Value
Current consumption [A]	0.9 A
Rated voltage	230 V/50 Hz
Degree of protection	IP 44
Short-term operation (S2)	4 min
Emissions sound pressure level	LpA ≤ 70 dB(A)*

^{*} The sound pressure level LpA in a standard installation of the product on a test stand is ≤ 70 dB(A). This value may vary depending on the specific installation.

Data for LED strips (if present)

Parameter	Value
Output voltage	24 V
Degree of protection	IP 67
max. power	400 lm/m, 4.8 W/m
Colour temperature	3000 Kelvin

Tab. 1: Technical data of LED strip

Data for RGB strips (if present)

Parameter	Value
Output voltage	24 V
Degree of protection	IP 54
max. power	12 W/m

Data for ZigBee RGB Dimmer smart (if present)

Parameter	ZigBee RGB Dimmer smart 150 W
Operating voltage [V AC]	200-240
Frequency [Hz]	50-60
Output voltage [V DC]	24
Switching capacity [W] at 24 V DC with ZigBee RGB Dimmer smart 150 W (art. no. 2031738)	145
Degree of protection	IP 54
Safety class	
Operating and storage temperature [°C]	-20 to +55

Tab. 2: Data for ZigBee RGB Dimmer smart 150 W

2.4 Wind resistance

The resistance to wind loads is determined in accordance with EN 13561.



The product has the following wind resistance rating: class 3

The slats can remain in a vertical position up to a maximum wind speed of 48 km/h.

In winds over 48 m/s, the slats must be closed. With the slats closed, the WAREMA slat roof is designed for a wind load of 1.1 kN/m².

2.5 Resistance against water collection (slat roof)

The product fulfils performance class 2 in accordance with DIN EN 13561.

Performance class 2 is equivalent to precipitation of 56 l/m² per hour.

The product offers protection against the weather when the slats are closed.

2.6 Slat roof snow load

Lamaxa slat roofs with sizes up to 6x4.5 m have a permissible snow load of max. 50 kg/m² when closed.

To prevent the slat roof becoming overloaded, WAREMA recommends moving the slats into an open, middle slat position (90°) when snow starts to fall.

If the slat roof is subjected to a snow load when the slats are closed, the user must avoid loads greater than the above-specified loads of 50 kg/m² by clearing the snow, for example.

3 Operation



INFO

- Only operate the product if it is in technically perfect condition.
- Do not operate a product if it is damaged. Always contact the specialist dealer and protect the product against being operated as agreed with the specialist.



The product can be equipped with additional functions, such as radiant heaters or light rails.

Before operating the product, read and follow the separate instructions.

3.1 Key assignment of slat roof hand-held transmitter

Equipment	Number of channels
Drive – tilting slat roof	1-channel
Direct LED lighting in beam (optional) ¹	1-channel
Indirect LED lighting in beam (optional) ¹	1-channel
LED lighting on pole (1–4 fields) (optional) ¹	1-channel
Radiant heater field 1 (optional) ¹	1-channel
Radiant heater field 3 (optional) ¹	1-channel

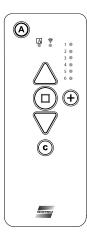
The channel is only occupied if the component was contained in the slat roof order.

WMS Hand-held transmitter plus



INFO

When fully equipped, not all components can be operated with a hand-held transmitter. The hand-held transmitter has 6 channels.



Channel no.	Assignment (standard) ¹	Assignment (customer-specific)
1	Drive	
2	LED beam direct	
3	LED beam indirect	
4	LED pole	
5	Radiant heater field 1	
6	Radiant heater field 3	

Tab. 3: Standard assignment WMS hand-held transmitter plus (settings at the factory)

The channels are assigned at the factory if all specified components are present upon delivery.

The preassigned channel changes if an additional accessory listed before it is not present.

WMS Hand-held transmitter comfort



Channel no.	Assignment (standard)	Assignment (customer-specific)
0	drive	

Tab. 4: Standard assignment of WMS Hand-held transmitter comfort product button for external venetian blind (setting made at the factory)

Channel no.	Assignment (standard) ¹	Assignment (customer-specific)
0	LED beam direct	
1	LED beam indirect	
2	LED pole	
3	Radiant heater field 1	
4	Radiant heater field 3	

Tab. 5: Standard assignment of WMS Hand-held transmitter comfort product button for light (setting made at the factory)

The channels are assigned at the factory if all specified components are present upon delivery.

The preassigned channel changes if an additional accessory listed before it is not present.

3.2 Operating the slat roof with the WMS Hand-held transmitter



CAUTION

Risk of crushing from failure to exercise care during operation.

Persons who are located within the projection area may be injured.

- Keep the path of the product clear of people.
- Keep children away from the operating elements.

Ventilation

The air is circulated when the slats are opened.

Rain protection

When the slats are closed, water is drained to the drainage gutters. In heavy rain, water may splash out of the drainage gutter.

Sun shading system

By setting the slat angle, direct sunlight from the top can be prevented.

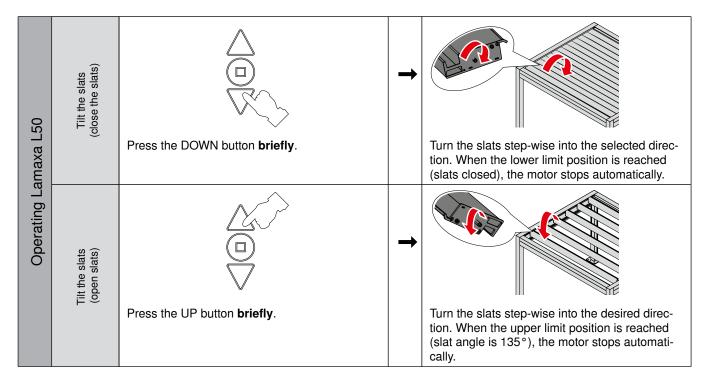
Slat roof L50



INFO

Select the right channel for the product on the hand-held transmitter.

The exact description of the hand-held transmitter can be found in the accompanying instructions for the hand-held transmitter.



3.3 Operating the LED strip with the WMS Hand-held transmitter



INFO

Select the right channel for the product on the hand-held transmitter.

The exact description of the hand-held transmitter can be found in the accompanying instructions for the hand-held transmitter.

ght	Switching on/ dimming ¹	Press the UP button briefly.	→	Light goes on or becomes brighter
Operating the light	Dimming ¹	Press the DOWN button briefly .	→	The light goes on or becomes dimmer
do	Switching off	Press the STOP button briefly.	→	The light goes off.

The LED strip/RGB strip is switched on with the brightness value last used.

3.4 Operating the RGB strip



INFO

Operate the RGB strips with the Philips Hue app or a separate RGB hand-held transmitter.

The exact description of the hand-held transmitter can be found in the accompanying instructions for the hand-held transmitter.

3.5 Operating the radiant heater with the WMS Hand-held transmitter (if available)



CAUTION

Risk of burns on hot surfaces!

The surfaces of the product are a burn hazard while the product is in use and after it has been switched off.

Wait for the radiant heater to cool down before touching it.



INFC

Select the right channel for the product on the hand-held transmitter.

The exact description of the hand-held transmitter can be found in the accompanying instructions for the hand-held transmitter.

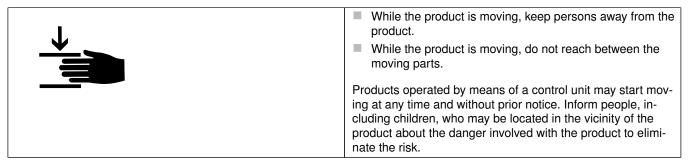
Ē				The radiant heater is switched on.
heate	uo U	<u> </u>		The radiant react to switched on.
t h	jing	<u></u>	\rightarrow	
ian	Switching	V		
radiant	Ś	Press the UP button briefly.		
the r		^		The radiant heater is switched off.
J t	g off			
perating	Switching	\mathcal{R}_{λ}	→	
a	wito	v 🗸		
) Dbe	S	Press the DOWN button briefly .		

3.6 Incorrect operation

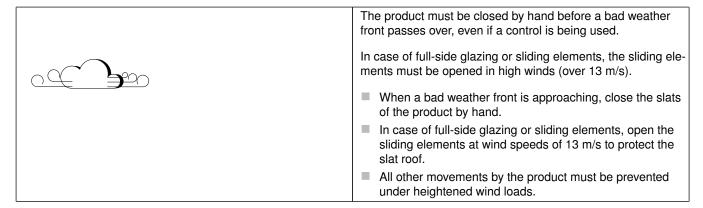
Accessibility of the operating elements

- Never let children play with the operating elements of the product, such as the hand-held transmitter or switch.
- Keep the hand-held transmitter out of the reach of children.

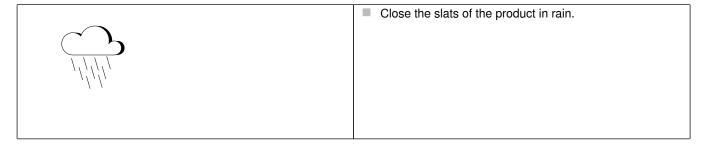
Danger of crushing, shearing and entanglement



Operation during a storm



Operation in wet weather



Operation in cold weather or winter

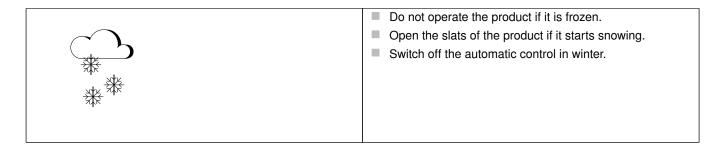


NOTICE

Product damage from forceful operation!

After an impact with condensation water, rain or snow, the product can freeze up at low temperatures.

- Do not use the product under icy conditions. The product may be used again after thawing.
- When using a control unit without an ice alarm, automatic operation should be deactivated in winter.



Cleaning the drainage

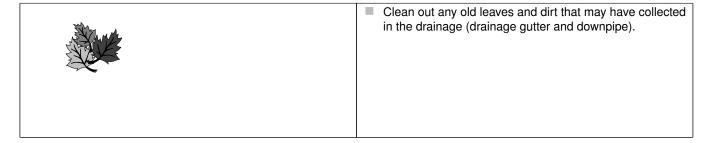


INFO

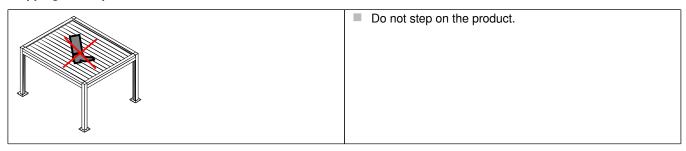
If the drainage gutter is installed without an inclination, it must be inspected and cleaned more frequently.

Drainage gutters and drains may clog with leaves, moss and dirt. This may cause the drainage gutters to overflow when it rains. If there are trees in the vicinity, it is better to clean the gutter after all of the leaves have fallen.

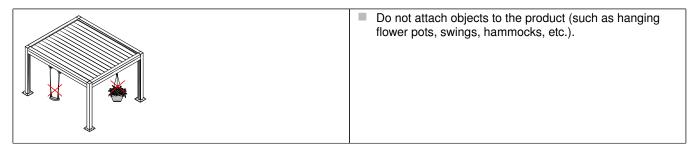
In autumn, leaves may have to be removed more frequently, depending on the location and position.



Stepping on the product



Additional load on the product



4 Service

Use of the product in a manner that is not intended or failure to care for and check the product improperly render the product warranty from WAREMA void.

Proper and regular cleaning and maintenance and the exclusive use of original spare parts are essential for trouble-free operation and a long product service life.



INFO

When performing product maintenance or working in the immediate vicinity of the product, e. g. when cleaning windows, product movement must be prevented.

A monitored overriding locking mechanism must eliminate all possible operation.



WARNING

Risk of injury from operation of the product when it is out of sight!



The product may unexpectedly start moving during cleaning or maintenance.

De-energise the product and secure it against being switched on again.



CAUTION

Risk of injury from falling off the climbing aid!

Climbing aids (e. g. ladders, scaffolding, etc.) may tip over if improperly erected.

Position climbing aids on level and firm ground.



CAUTION

Risk of injury from falling!

There is a risk of falling during maintenance work.

Take suitable safety precautions to prevent or arrest falls.



DANGER

Danger of breaking through slats!



When work is performed on the outside of slat roofs, there is a danger of breaking through the slats. Injuries may result from falling.

Do not step onto the slat roof.

4.1 Cleaning, care and inspection activities

Over time, a film of dirt will form on the surfaces of sun shading products due to environmental influences.

Due to the effects of solar radiation, this soiling can become permanently burnt into or stuck to the surface coating. These factors reduce the value and may impair the proper functioning of the sun shading product.

To enhance the durability of the sun shading product, its surfaces should be cleaned regularly or at least once a year.

In certain ambient conditions, such as those found near industrial zones and close to heavy road traffic, the sea (salty air) or swimming pools (air with chlorine), more frequent cleaning may help to protect against surface damage caused by these conditions and against the heightened risk of corrosion.



INFO

The activities described in this section can be performed by the operator. It is important to abide by the interval of one year.

Purpose of cleaning and care

The benefit provided by regular and proper cleaning and care is that the value of the product is preserved and its service life extended. The purpose of repeatedly cleaning the product is to preserve the well-maintained appearance of both the building and the product.

Results of cleaning



NOTICE

Product damage from incorrect cleaning!

Incorrect cleaning procedures may result in damage to the product or product parts. Surfaces and textures may be permanently altered (e. g. scratches).

- Do not use abrasive sponges, abrasive cleansers, or aggressive cleaning agents or solvents such as alcohol or naphtha.
- Do not use chlorinated cleaning agents on or near the product.

Under no circumstances will claims for damages arising from these cleaning instructions be honoured, since the effectiveness of these measures depends on a large number of factors that vary widely from case to case.

The effort required for cleaning and the cleaning results themselves depend on the degree of soiling. Surfaces that have been exposed to the influences of weather over many years but have not been cleaned are difficult, if not impossible, to restore to their original condition.

General information on cleaning



WARNING

Risk of injury from electric shock on a motorized product!

If a live component (e. g. motor) comes into contact with water, a short circuit may occur or electricity may flow.

Keep water away from all live components.



Tip/recommendation

Using the WAREMA cleaning glove together with WAREMA cleaning agent concentrate for sun shading products is an ideal way to properly clean product surfaces.

The WAREMA cleaning agent for sun shading products can be used for metal and plastic surfaces and is certified by the GRM (Gütegemeinschaft Reinigung von Fassaden e.V.) (certification no. 142, 242, 342, 442, 542).

Concentrate



Cleaning glove



To order, contact your WAREMA dealer.



For further advice and technical questions regarding cleaning, please contact the Association of German Sun Shading Product Cleaners (Verband Deutscher Sonnenschutzreiniger e.V., www.vds-sonnenschutz.de).

Preparing for cleaning

When cleaning the product, protect adjacent areas against soiling.

Aids required for cleaning:

- ► Whisk broom (soft bristles)
- Vacuum cleaner (optional)
- Bucket
- Low-calcium water (recommendation)
- ▶ WAREMA cleaning agent for sun shading products (do not use on wood products)
- WAREMA cleaning glove
- ► Cotton cloth



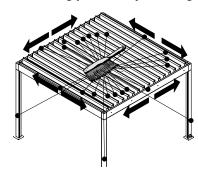
or

INFO

Clean step-by-step from the rear to the front.

- 1 Rain hood (if present)
- 2 Beams and trim panels
- 3 Slats
- 4 Drainage gutter
- 5 Pole

Performing preliminary cleaning

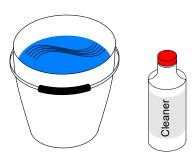


- Remove any loose soiling from the entire product (e. g. dust, leaves). A whisk broom or vacuum cleaner can be used for this.
- Do not forget to clear the opening for the slats.

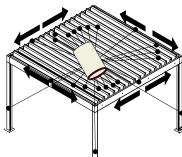


- If the product is installed outside (outdoors), you can also rinse off loose dirt with clear water at a low water pressure.
- Before you start, remove any objects that must not get wet.

Performing detailed cleaning



- Prepare a bucket with water and WAREMA cleaning agent for sun shading products. Note the dosing quantities specified by the cleaning agent manufacturer.
- Wet the WAREMA cleaning glove.

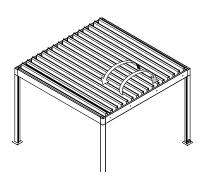


- Clean the product components with a wiping motion. Repeat the procedure as needed based on the degree of soiling.
- Clean the lateral opening for the slats on the beams to eliminate the possibility of malfunctions, e. g. due to leaves.
- Clean the drainage gutters and drainage pipes to remove any blockages, e. g. due to leaves.



Remove the detached soiling before drying.

Drying the product



Open and close the slats to allow the water to drip off.



INFO

To prevent scale marks from forming around dried water droplets, the surfaces of the product can be rubbed dry using a microfibre or cotton cloth.

Cleaning the drain



INFO

If the drainage gutter is installed without an inclination, it must be inspected and cleaned more frequently.

Drainage gutters and drains may clog with leaves, moss and dirt. This may cause the drainage gutters to overflow when it rains. If there are trees in the vicinity, it is better to clean the gutter after all of the leaves have fallen.

In autumn, leaves may have to be removed more frequently, depending on the location and position.



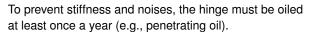
Clear leaves and soiling out of drainage gutters, the drop tube and the outlets.

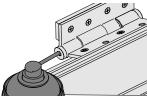
Oiling the hinge of the protection profile



INFO

After a certain period of use, dust can collect in the hinge and the metal can wear down due to frequent operation of the protection profile. Dust and moisture can clog the hinge.





Inspection activities/examine the product during cleaning



INFO

Wear and damage to the operating element or product as well as damage to the mounting substructure may impair the product and result in secondary damage.

If you should notice any irregularities during the visual check of the product, proceed as described below.

- Take the product out of service.
- Have any damage repaired by a qualified specialist.
- Check the product regularly for visible wear, damage and proper functioning (visual check).
- Check that the fixing of the supporting elements (e. g. consoles) is firmly connected to the structure and/or the floor (visual check).
- Remove all foreign objects and any soiling from the product components and the guide rails.
- Check the charge status of the batteries of supplementary accessories, such as the hand-held radio transmitter and wind sensor, and replace if necessary.
- Check the drainage gutters, drop tubes and outlets for clogging and clean.



INFO

To ensure proper functioning and your continued enjoyment of the product, WAREMA recommends professional maintenance.

Information on this can be obtained from your WAREMA contracting partner or at www.warema.de/service.

4.2 Maintenance



The maintenance tasks must only be performed by a qualified specialist. We recommend signing a service agreement.

Service is a preventative maintenance and contributes to keeping a product functional as long as possible.



WARNING

Risk of injury caused by irregular maintenance!

Operating safety may be seriously diminished, and the product may fail. People can be injured from contact with damaged parts.

Have the product checked regularly by a qualified specialist for signs of wear and damage, e.g. to electrical lines.



CAUTION

Risk of injury from inadequate product knowledge!

Familiarity with the functions and design of the product is required to ensure that it can be worked on safely. Insufficient product knowledge can result in dangerous situations.

- Have service tasks performed by a qualified specialist.
- Check the product for visible wear and damage. If necessary, make a recommendation to the owner.
- Check the fixing of the bearing elements (e.g. consoles, guide elements) for a tight fit. If necessary, make a recommendation to the owner.
- Perform a functional check, and inspect the limit positions of the product. Adjust the limit positions if necessary (see the installation instructions and/or setting instructions).

4.3 Repair



CAUTION

Personal injury resulting from inappropriate repairs!

Familiarity with the functions and design of the product is required to ensure that it can be worked on safely. Insufficient product knowledge can result in dangerous situations.

The product should only be repaired by a qualified specialist.



INFO

To ensure that your product continues to function properly, and to prevent the loss of its approved status, only use original spare parts.

To order, contact your WAREMA dealer.

5 Dismantling/disposal



CAUTION

Risk of injury due to incorrect dismantling!

A lack of appropriate knowledge when dismantling the product can lead to injuries and/or damage to the adjacent parts.

Have the units dismantled by a qualified specialist.

Dismantling of the product must be undertaken by a qualified specialist. Ask WAREMA for any missing documents before commencing maintenance.



WARNING

Electric shock!



When working in the immediate vicinity of potentially live parts, such as electrical lines, contact may result in an electric shock.

De-energise the product and secure it against being switched on again.

Disposal

Should the product no longer be required, ensure that it is disposed of correctly in accordance with the relevant regulations.



Components identified in this manner should not be disposed of with the household waste.

Products marked with the symbol must be handled as follows according to legal regulations:

- This electrical device must be disposed of by the owner separately from unsorted residential waste for recycling.
- Used batteries that are not enclosed in the used device and lamps that can be removed from the used device without destroying it are to be disposed of separately.
- Distributors of electric devices or disposal operations are required to take back the devices at no charge.
- Deletion of personal data contained in the electric device before disposal is the responsibility of the owner/operator.

6 Troubleshooting



INFO

- Problems described here without reference to a qualified specialist or certified electrician may be resolved independently.
- All other problems listed must be handled by a qualified specialist or certified electrician.

Fault: The motor is not functioning					
	Cause	Remedy	Note		
	The thermal protection switch on the motor was triggered	Wait 10 to 15 minutes and then try again.			
	A higher-level control command is present	Wait for on/off delay and then try again.			
	No voltage is applied.	Check the power supply.	Have checked by a certified electrician.		
	Motor is faulty	Replace the motor.	Replacement by a qualified specialist		

Faul	It: The product does not move to the desired limit position		
	Cause	Remedy	Note
	The motor limit positions are incorrect	Readjust the motor.	Adjustment by a qualified specialist

Fau	ault: The drainage gutter runs over or water does not drain				
	Cause	Remedy	Note		
	There is dirt in the drainage gutter.	Removing the dirt	I		
	There is dirt in the downpipe.	Removing the dirt			

Fault: The radiant heater is not generating heat				
	Cause	Remedy	Note	
	The heating element is faulty.	Change the radiant heater.	[
	The radiant heater is faulty.	Change the radiant heater.		
	The radiant heater is switched off.	Switch on the radiant heater via the hand-held transmitter.		

7 EC Declaration of Conformity

The	product:

WAREMA slat roof

Type: Lamaxa L60

Lamaxa L70 Lamaxa L60 Free Lamaxa L70 Free Lamaxa L60 Line Lamaxa L70 Line Lamaxa L50 Lamaxa L50 Line

Purpose: External sun shading system

Meets the provisions of Machinery Directive 2006/42/EC in the case of motor drives.

In particular, the following harmonised standards were used:

DIN EN 13561 External blinds and awnings - Performance requirements including safety

DIN EN 60335-2-97 Household and similar electrical appliances - Safety - Part 2-97: Particular requirements

for drives for rolling shutters, awnings, blinds and similar equipment

Person in charge of the compilation of the technical documents: Elke Granzer; for address, see manufacturer.

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