

Operating and maintenance instructions



WAREMA top-mounted roller shutter for new buildings
Type NA-RO

Der SonnenLichtManager

Original instructions
To be handed over to the operator.
Please keep for future use.

Table of contents

Table of contents

1	Introduction.....	3
1.1	Information on safety.....	3
1.2	Information on the target group and application of these instructions.....	3
1.3	Explanation of the signal words.....	3
1.4	Basic safety instructions.....	3
2	Product information.....	4
2.1	Intended use.....	4
2.2	Parts description.....	5
2.3	Electric drive data.....	5
2.4	Wind resistance.....	5
3	Operation.....	6
3.1	Product with motor.....	6
3.2	Product with motor with connection for additional crank operation.....	7
3.3	Product with belt.....	7
3.4	Product with crank.....	8
3.5	Product with insect screen swivel frame.....	8
3.6	Product with insect screen roller blind.....	8
3.7	Incorrect operation.....	9
4	Service.....	10
4.1	Cleaning and care.....	10
4.2	Maintenance.....	12
4.3	Spare parts.....	12
4.4	Warranty.....	12
5	Dismantling/disposal.....	12
6	Troubleshooting.....	14
7	Declaration of Conformity.....	15

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:
top-mounted roller shutters for new buildings NA-RO

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 the 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.

Introduction

Operation in the event of a power supply interruption

An electrically-operated product cannot be operated without power. A lowered 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

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

The product is only able to withstand the loads associated with the specified wind resistance classes. Closed roller shutters cannot withstand high wind loads when the window is open. The specified wind resistance class is only attainable with the window closed.

- ▶ Close the windows in strong wind. Take measures to prevent draughts from forming in your absence.

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.

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.

Operation in hot weather

When the roller shutter is lowered during the summer, solar radiation may cause heat accumulation between the roller shutter curtain and the window. In roller shutters made of plastic, the high temperatures combined with the roller shutter's own weight may cause the curtain to deform.

- ▶ Roller shutter curtains made of plastic should not be lowered all the way to the lower limit position in summer. The light slits of the roller shutter curtain should remain visible.

Risk of damage to the product

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

- ▶ Do not hold onto the product or lean any objects against it.

2 Product information

2.1 Intended use

The following details apply to the following product: top-mounted roller shutters for new buildings NA-RO

The product is an external sun shading system that may only be used for heat protection, glare control and visual privacy. An insect screen can be integrated as an option.

Installation in front of escape doors and escape windows is prohibited.

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.

2.2 Parts description

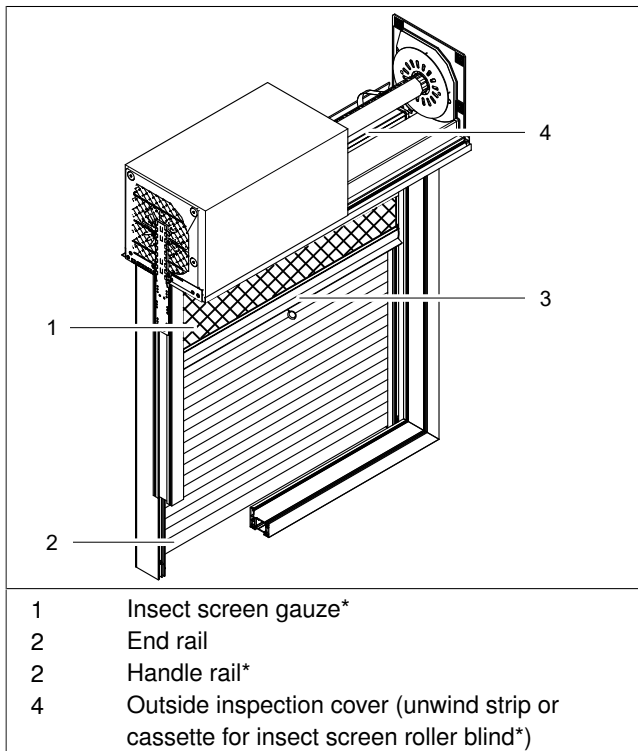


Fig. 1: Parts overview of top-mounted roller shutter for new buildings (inspection outside)

* Only in models with an insect screen.

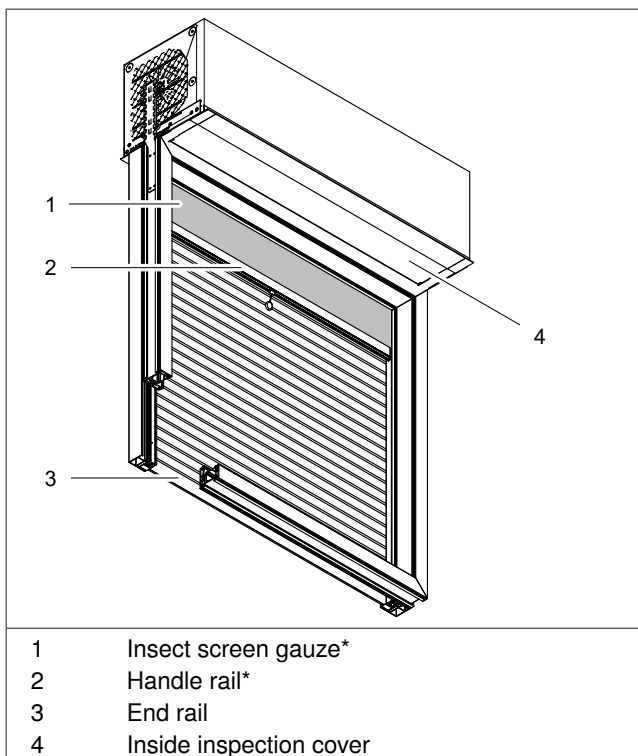


Fig. 2: Parts overview of top-mounted roller shutter for new buildings (inspection inside)

* Only in models with an insect screen.

2.3 Electric drive data

Parameter	Value
Current consumption [A]	0.36-1.2 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.



INFO

The table above shows a summary of the permissible motors.

2.4 Wind resistance

The product has the following resistance to wind loads: class 0-6 ¹



INFO

¹ The minimum class that can be recommended for use is class 2. Roller shutter curtains in lower wind resistance classes may be used as the local installation situation permits. Class 0 is assigned if class 1 was not achieved or if the wind resistance was not tested.

	WC 0	WC 1	WC 2	WC 3	WC 4	WC 5	WC 6
A36	3000	2850	2775	2605	2275	1770	1105
A37	-	-	3000*	2755	2305	1955	1695
A44	3500	3295	3200	3010	2625	2055	1600
A53	-	-	3500*	3370	3020	2490	1790
K36	2000	1800	1725	1520	1115	515	-
K37	2000	1750	1600	1400	1200	1000	900
K52	2500	2355	2285	2140	1855	1425	850
V36	-	2200	2115	1920	1540	975	-
S37	-	-	-	3000*	2790	2375	1820

Tab. 1: Wind resistance classes (WC) for the top-mounted roller shutters NA-RO RA (inspection access outside) with aluminium guide rails, depending on the order width (all dimensions in mm)

* Maximum order width for the product

Operation

	WC 0	WC 1	WC 2	WC 3	WC 4	WC 5	WC 6
A36	3000	2900	2820	2675	2375	1930	1325
A37	-	-	3000*	2655	2220	1855	1635
A44	3500	3320	3220	3020	2610	1905	1060
A53	-	-	3500*	3310	2830	2100	1130
K36	2000	1725	1670	1555	1320	970	500
K37	2000	1725	1670	1555	1320	970	500
K52	-	2500*	2480	2280	1900	1300	500
V36	2200	1990	1925	1800	1515	1080	500

Tab. 2: Wind resistance classes (WC) for the top-mounted roller shutters NA-RO RA (inspection access outside) with plastic guide rails, depending on the order width (all dimensions in mm)

* Maximum order width for the product

	WC 0	WC 1	WC 2	WC 3	WC 4	WC 5	WC 6
A36	3000	2850	2775	2605	2275	1770	1105
A37	-	-	3000*	2755	2305	1955	1695
A44	3500	3295	3200	3010	2625	2055	1600
A53	-	-	3500*	3370	3020	2490	1790
K36	2000	1800	1725	1520	1115	515	-
K37	2000	1750	1600	1400	1200	1000	900
K52	2500	2355	2285	2140	1855	1425	850
V36	-	2200	2115	1920	1540	975	-
S37	-	-	-	3000*	2790	2375	1820

Tab. 3: Wind resistance classes (WC) for the top-mounted roller shutter NA-RO RI (inspection access inside) with aluminium guide rails, depending on the order width (all dimensions in mm)

* Maximum order width for the product

	WC 0	WC 1	WC 2	WC 3	WC 4	WC 5	WC 6
A36	3000	2850	2775	2605	2275	1770	1105
A37	-	-	3000*	2655	2220	1855	1635
A44	3500	3320	3220	3020	2610	1905	1060
A53	-	-	3500*	3310	2830	2100	1130
K36	2000	1800	1725	1520	1115	515	-
K37	2000	1725	1670	1555	1320	970	500
K52	-	2500*	2480	2280	1900	1300	500
V36	-	2200	2115	1920	1540	975	-

Tab. 4: Wind resistance classes (WC) for the top-mounted roller shutters NA-RO RI (inspection access inside) with plastic guide rails, depending on the order width (all dimensions in mm)

* Maximum order width for the product

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 may optionally be equipped with an insect screen.

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

3.1 Product with motor



WARNING

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.

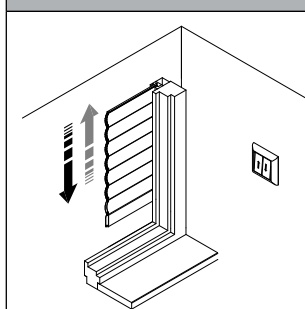


INFO

During the cold season, unfavourable installation and building situations can lead to malfunctions or damage due to the effects of sub-zero temperatures and ice. This is caused by moisture on the product due to dew, rain or snow that freezes. This moisture freezes at sub-zero temperatures.

This is a physical process that cannot be influenced by the manufacturer. Even electrical drives with obstacle detection do not provide absolute protection.

Movement



- Operate the switch. The product moves in the selected direction.
- Press the button on the hand-held transmitter. The product moves in the selected direction.



INFO

The product has an upper and lower limit position. The product automatically stops at this point.

The product can be stopped in any position.

Operation using a central control unit



INFO

Read the accompanying operating note when using the SecuKit optional extra.



NOTICE

Product damage from failure of the control unit!

Under certain external conditions, such as a power failure or a malfunction, the control unit will not be functional. In this case, the control unit will not be able to operate the product and the product may be exposed to extreme loads caused by the weather conditions.

- Set the control to manual operation if you are going to be away for a long period.

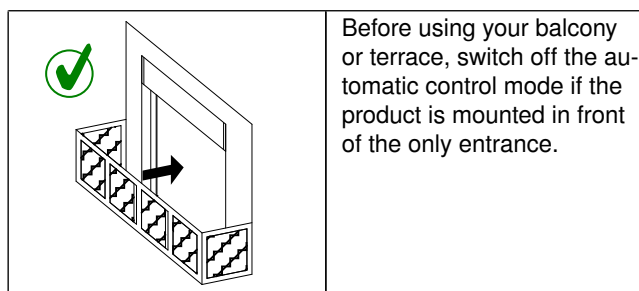


INFO

of the motors used are not intended for continuous operation.

The integrated thermal protection switches the motor off after approx. 4 minutes. The product will be ready again for use after 10 to 15 minutes.

- Adjust the control unit in such a way that continuous operation of the motor is not possible.
- Follow the operating and installation instructions of the control unit.



Operation using a hand-held transmitter



INFO

Instructions on how to operate the hand-held transmitter are contained in a separate manual for the hand-held transmitter.

3.2 Product with motor with connection for additional crank operation



NOTICE

Product damage from incorrect direction of rotation of crank!

Note the direction of rotation for raising the product. If operated incorrectly, the pressure springs may be wound incorrectly and break. The product can no longer be operated.

- Note the direction of rotation for raising the product.



NOTICE

Product damage from incorrect operation!

The motor features an integrated gear to permit additional operation using a crank.

The motor was developed to operate the product during a power failure. It is solely intended to move the product clear of the opening. General operation is not permitted.

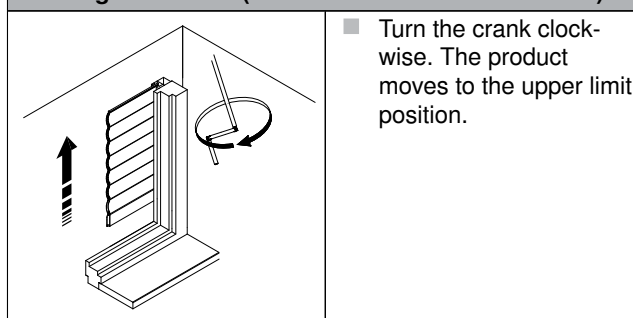
- Only use the crank to raise the product in the event of a power failure.



INFO

An excessive angle in the crank rod makes the crank difficult to move and causes excessive wear. Malfunctions may occur.

Raising with crank (clockwise direction of rotation)



3.3 Product with belt



NOTICE

Product damage from forceful operation!

When operating the product, excessive force must not be applied to the operating element if any resistance is encountered.

- Stop operating/moving the element as soon as you feel resistance.



INFO

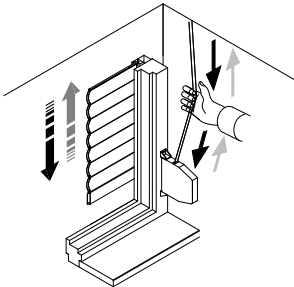
Pulling the belt out laterally causes excessive wear. The belt may become deformed. Malfunctions may occur.

The belt is automatically wound up in the belt winder. Slacken the belt as it moves upwards, but never release it abruptly.



INFO

Slow the turning motion of the crank before you reach a limit position.

Movement	
	<ul style="list-style-type: none"> Move the belt smoothly and vertically upward or downward when pulling it out of the belt winder housing.

3.4 Product with crank



NOTICE

Product damage from forceful operation!

When operating the product, excessive force must not be applied to the operating element if any resistance is encountered.

- Stop operating/moving the element as soon as you feel resistance.



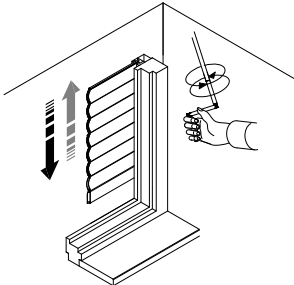
INFO

An excessive angle in the crank rod makes the crank difficult to move and causes excessive wear. Malfunctions may occur.



INFO

Slow the turning motion of the crank before you reach a limit position.

Movement	
	<ul style="list-style-type: none"> Turn the crank. The product moves in the selected direction.



INFO

The product can be stopped in any position.

3.5 Product with insect screen swivel frame

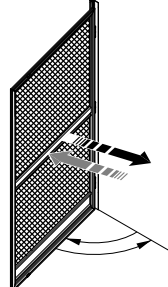


NOTICE

Product damage from incorrect operation!

A control unit can lower the roller shutters/external venetian blinds even if the insect screen swivel frame is open.

- Do not use an automatic control mode to operate roller shutters or external venetian blinds if an insect screen swivel frame is installed.

Opening/Closing	
	<ul style="list-style-type: none"> Push against the sash bar with the handle rail to open the insect screen swivel frame. Pull on the sash bar with the integrated handle rail to close the insect screen swivel frame. <p>The insect screen swivel frame is closed when the magnets are stuck together.</p>



INFO

For D1/D2.M.xx or D1/D2.O.xx:

An integrated closing aid closes the insect screen swivel frame automatically. The swivel frame does not stay open by itself. The closing behaviour depends on the weather conditions, especially the wind.

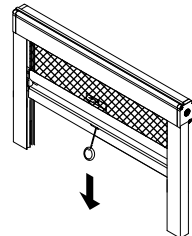
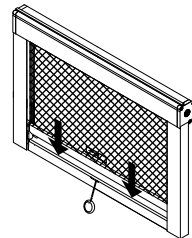
3.6 Product with insect screen roller blind



NOTICE

Product damage from incorrect operation!

The insect screen roller blind must not be operated when the roller shutter is in the lower limit position.

Lowering/Raising	
	<ul style="list-style-type: none"> Pull the handle rail down. To lock the screen at the lower limit stop, press down on the handle rail until it engages on both sides.
	<ul style="list-style-type: none"> To release, press down on the handle rail until it disengages on both sides. The roller blind moves up gently.



INFO

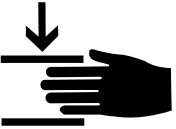
On products installed on sloped surfaces, or when the outside temperature is low in the winter, use your hand to help raise the blind.

3.7 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

	<ul style="list-style-type: none"> ■ While the product is moving, keep persons away from the product. ■ While the product is moving, do not reach between the moving parts. <p>Products operated by means of a control unit may start moving at any time and without prior notice. Inform people, including children, who may be located in the vicinity of the product about the danger involved with the product to eliminate the risk.</p>
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Operation in stormy weather

	<p>Close the windows in strong wind. Eliminate air drafts. The specified wind resistance class is only attainable with the window closed.</p>
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Operation in cold weather or winter

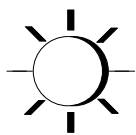
NOTICE
Product damage from forceful operation!

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.

	<ul style="list-style-type: none"> ■ Do not raise or lower the product in snow. ■ Do not operate the product if it is frozen. ■ Switch off the automatic control in winter.
---	--

Operation in hot weather

	<ul style="list-style-type: none"> ■ When using the product in sunlight, do not close it fully to permit ventilation behind the unit. <p>It will also reduce the risk of deformation if plastic roller shutter curtains are being used.</p>
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4 Service

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.
- Do not lean climbing aids against the product.



CAUTION

Risk of injury from falling!

There is a risk of falling during maintenance work.

- Take suitable safety precautions to prevent or arrest falls.

4.1 Cleaning and care

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.

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 high pressure washers, steam washers, 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).



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
- ▶ WAREMA cleaning glove
- ▶ Cotton cloth
 - Rubber eraser (non-marking)
 - Adhesive tape
 - Mild detergent

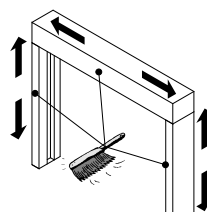


INFO

Step-by-step cleaning from top to bottom

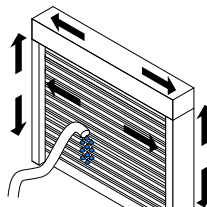
- 1 Guide rails
- 2 Roller shutter curtain
- 3 End rail

Performing preliminary cleaning



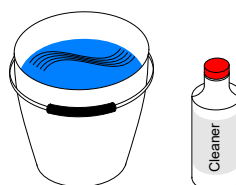
- Remove any loose soiling from the entire product (e. g. dust). A whisk broom or vacuum cleaner can be used for this.

or

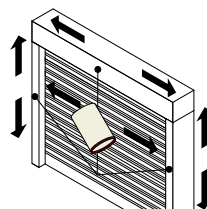


- If the product is installed outside (outdoors), you can also rinse off loose dirt with clear water at a low water pressure.
- Before you start, remove any objects that must not get wet.

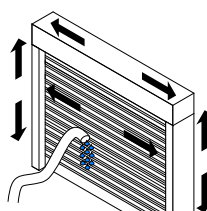
Performing detailed cleaning



- 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.



- Remove the detached soiling before drying.

Drying the product



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.

Inspecting the product during cleaning

- Operate the product and inspect the operating elements for visible wear and damage (visual check).
- Check the mounting substructure for damage (visual check).

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.

4.2 Maintenance



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.



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.

The product must be serviced at least once a year.



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.
- 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).



INFO

To ensure proper functioning and your continued enjoyment of the product, WAREMA recommends having it professionally maintained once a year.

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

4.3 Spare parts



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.

4.4 Warranty

Subject to the statutory period of limitation for warranty claims. This requires regular maintenance. The warranty does not include wear parts or optical changes in line with the type of material used (e. g. bleaching of surfaces caused by UV rays).

Wear parts

► Belt

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.



INFO

Electrically operated products contain integrated electrical or electronic components, such as the motor, control and lines. These components must be removed and disposed of separately from the product as described below ([Disposal](#)).



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:

- The electric and electronic components removed from the electrically operated product and other electrical devices belonging to the product must be disposed of separately from unsorted household waste.
- 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.	If the motor is operated at frequent intervals, the thermal protection switch on the motor switches it off to prevent it from overheating. The motor will be ready to operate again after it has cooled down. This is not a fault.
	A higher-level control command has been issued.	Wait for the on/off delay and then try again.	
	No voltage is applied.	Check the power supply fuse.	Have the check carried out by a certified electrician.
	The motor is faulty.	Replace the motor.	Have the motor replaced by a specialist firm.

Fault: The end rail does not move to the limit positions			
	Cause	Remedy	Note
	The guide rails are soiled.	Remove soiling.	
	The motor limit positions are incorrect.	Readjust the motor.	Have the adjustment carried out by a specialist firm.

Fault: The end rail moves into the box.			
	Cause	Remedy	Note
	Internal stop is faulty	Replacing the stop	Replacement by a qualified specialist

Fault: The crank rod is difficult or impossible to turn			
	Cause	Remedy	Note
	The gear is blocked or faulty.	Replace the gear.	Replacement by a qualified specialist
	The integrated gear in the motor is blocked or faulty.	Replace the motor.	Replacement by a qualified specialist
	Pivot bearing is faulty.	Replace the pivot bearing.	Replacement by a qualified specialist

7 Declaration of Conformity

Excerpt from the declaration of conformity; the full document is available at www.warema.de/ce.

The product:

WAREMA roller shutters

Type:

- Top-mounted roller shutter AU-RO
- Renovation roller shutter RE-RO
- Top-mounted roller shutter for new buildings NA-RO
- Shaft roller shutter system SSR
- Shaft roller shutter SE-RO
- Asymmetrical roller shutters S6 / S10
- Front-mounted roller shutter V4 / V6 / V10

Purpose:

External sun shading systems

When used as intended, meets the basic requirements in the following EU directives and harmonised standards.

Machinery Directive 2006/42/EC:

EN 13659 Shutters and external venetian blinds - Performance requirements including safety

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

RoHS Directive 2011/65/EU:

Directive on electromagnetic compatibility 2014/30/EU:

Used for motor drives without an integrated radio receiver.

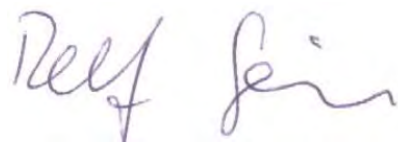
Directive on radio equipment 2014/53/EU (RED):

Use for motor drives with an integrated radio receiver or for WAREMA components with an integrated radio receiver.

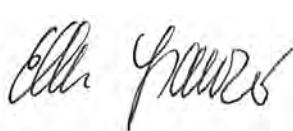
Person in charge of the compilation of the technical documents: Elke Granzer; for address, see manufacturer.

Manufacturer:

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Ralf Simon
Executive Director Research and Development



Elke Granzer
Technical Support R & D

Marktheidenfeld, Germany, March 2023

