



Maintenance

Storing the maintenance instructions

These instructions are an important part of the product. The instructions must be stored so that they are always to hand.

Performing maintenance work incorrectly can lead to injuries.

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- ▶ Ensure that there is sufficient space for installation before starting work.
- ▶ Ensure that the installation site is clean and tidy.
- ▶ Always have hardware adjustment and replacement work performed by a specialist company.
- ▶ Secure the sash against unintentionally opening or closing.
- ▶ Do not unhinge the sash for maintenance.

Incorrect or improper testing may cause property damage.

Incorrect or improper testing of the hardware may cause the element to malfunction.

- ▶ Have the hardware checked by a specialist company when installed.
- ▶ If defects need to be remedied, have the element unhinged and remounted by a specialist company.

Maintenance work

No legal claims can be derived from the following recommendations. Their application is to be based on the specific individual case.

Must be carried out by a specialist company

■ Performance test

- ☐ Check that the elements run smoothly by opening and closing them.
- ☐ Locking and unlocking torque max. 10 Nm. The test can be performed using a torque wrench.
- ☐ Check the element gaskets for elasticity and fit.

■ Repair

- ☐ Retighten screws. Refer to the product-specific instructions for the specified torques; these values must be complied with.
- ☐ Adjust the hardware.
- ☐ Replace damaged components.

May be carried out by a specialist company or the end user

■ Cleaning

- ☐ Clean the hardware.

■ Care

- ☐ Lubricate movable parts.
- ☐ Lubricate locking points.

■ Performance test

- ☐ Check that hardware components are fitted securely.
- ☐ Inspect hardware components for wear.
- ☐ Check that movable parts work properly.
- ☐ Check that locking points work properly.

In addition to these instructions, the product-specific installation, maintenance and operation instructions apply <https://media.ftt.roto-frank.com>.

1.1 Maintenance intervals

Failure to adhere to maintenance intervals may cause property damage.

The maintenance interval for all tasks relating to the hardware components is **annually** at least. In hospitals, schools and hotels, the maintenance interval is **six-monthly**.

Regular maintenance is necessary in order to maintain the proper and smooth-running operation of the hardware and to prevent premature wear or even defects.

- ▶ Determine and adhere to the appropriate maintenance interval in accordance with the ambient conditions.

1.2 Cleaning

Using incorrect cleaning agents and sealing compounds may cause property damage.

Cleaning agents and sealing compounds may damage the surfaces of components and gaskets.

- ▶ Do not use aggressive or flammable liquids, acidic cleaners or abrasive cleaners.
- ▶ Only use mild, pH-neutral cleaning agents that have been diluted.
- ▶ Apply a thin protective film to the components, for example using a cloth soaked in oil.
- ▶ Avoid aggressive vapours near the element, e.g. those produced by formic acid, acetic acid, ammonia, amine compounds, ammonia compounds, aldehyde, carboxylic acid, chlorine, tannic acid).
- ▶ Do not use any acetic acid-crosslinking or acid-crosslinking sealing compounds or those with the aforementioned constituents as both direct contact with the sealing compound and its fumes can corrode the surface of the components.

Cleaning the hardware

- Remove deposits and contaminants from the hardware using a soft cloth.
- Lubricate movable parts and locking points after cleaning.

1.3 Care

Using incorrect lubricants may cause property damage.

Substandard lubricants can prevent the hardware from working properly.

- ▶ Use high-quality lubricants.
- ▶ Only use resin-free and acid-free lubricants.
- ▶ Use appropriate lubricant in more challenging climatic conditions. Note the manufacturer specifications.

Cleaning agents and lubricants may pollute the environment.

Leaking or excess cleaning agents and lubricants may pollute the environment.

- ▶ Remove any leaking or excess cleaning agents and lubricants.
- ▶ Dispose of cleaning agents and lubricants separately and properly.
- ▶ Observe the applicable directives and national laws.

Ease of movement can be improved by lubricating or adjusting the hardware. All functional hardware components must be lubricated on a regular basis. The exact lubrication point and the associated recommended lubricant are listed in the product-specific installation, maintenance and operation instructions.



1.4 Repair

Improper repair work may pose a risk of death!

Improper maintenance may prevent the element from working properly and make it less safe to use.

- ▶ Always have regular adjustments, maintenance and repair work performed by a specialist company.
- ▶ Keep the hardware free of deposits and contaminants.
- ▶ Carry out care and cleaning tasks as specified in these instructions.

Improper screw fixings may cause property damage.

Loose or faulty screws can prevent the hardware from working properly.

- ▶ Check that the individual screws are secure and seated correctly.
- ▶ Tighten or replace loose or faulty screws.
- ▶ Use only the suggested screws.

Repair work includes replacing and repairing components and is only necessary if components have become damaged after wear or as a result of external circumstances. The hardware must be secured reliably in order to ensure that the element works properly and is safe to use.

The following tasks must only be performed by a specialist company:

- Adjust the hardware.
- Replace the hardware or hardware components.
- Remove and reinstall the elements.

The specialist company must observe the following:

- Perform the necessary repair work properly, according to generally recognised engineering practice and in accordance with the applicable regulations.
- Do not perform makeshift repairs on worn or damaged components.
- Only use original or approved spare parts for repairs.

1.5 Further information

The specialist company can find further information in the product-specific installation, maintenance and operation instructions. These are available at: <https://media.ftt.roto-frank.com>



1.6 Contact

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