

Window and Door Technology



Roto NT sets standards

10 year performance warranty



10 year performance warranty Quality is our top priority

Guarantee services reflect a company's quality consciousness. Roto NT sets standards – we are well aware of this fact. With two prerequisites, it is now possible for us to hand on the unique quality standard to our partners in the form of a 10 year functional warranty:

- 1. Roto Sil Nano** – an excellent surface.
- 2. Systematic quality checks** from development to production.

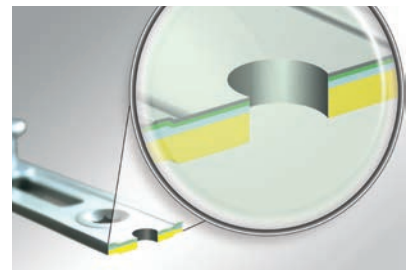
Roto Sil Nano provides first-class corrosion protection.

Windows from Roto customers are sold the world over and therefore have to endure the most extreme climatic conditions.

By using the latest technologies, the outstanding Roto Sil Nano surface-finish generation supports our global claim to quality day in and day out – under virtually any conditions.

The Roto Sil Nano surface-finish generation sets standards.

The Roto Sil Nano coating technology offers a high degree of surface protection. Using nano-particles, we have succeeded in creating a surface that offers outstanding corrosion protection – available in standard without surcharge.



Nano coating technology determines quality

- Nano particles and optical sealing
- Chromium VI-free passivation
- Zinc coating
- Basic material: Steel



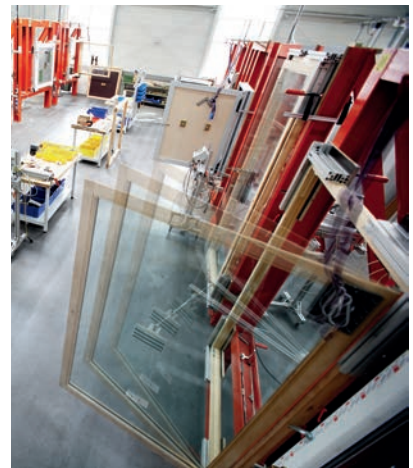
Each individual NT module ensures exemplary production and test methods

Systematic quality control – from the idea right through to production.

The cornerstone for a new quality standard is laid in the development phase. Three-dimensional computer models simulate forces and eliminate possible component failure prior to the design phase. All design processes undergo error analysis methods.

Only intensive controls lead to 100% quality.

The raw materials are already inspected at goods receipt to ensure they meet the NT quality standard. Once they pass this test, additional checks are carried out at all work stages at regular intervals during production. Naturally, each component is tested in accordance with the current standards and regulations. NT quality withstands daily corrosion tests to ensure consistent product quality.



NT components are tested in accordance with the current standards and guidelines.



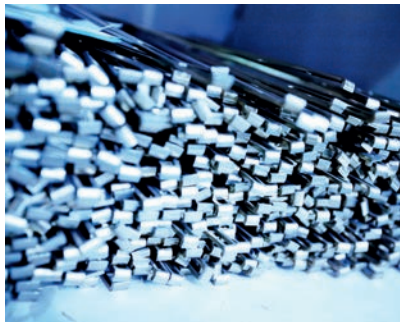
We trust in NT quality and are happy to pass this certainty on to you – with a guarantee that sets standards.

The functional warranty points the way ahead

Roto is the benchmark in the testing sector. This is equally valid for systems engineering, as well as implementation. The tests are carried out both by independent test institutes, (e.g. the IFT German window technology institute), and by our own accredited International Technology Centre. This accreditation represents the highest award for a testing laboratory in the private-law sector. The corresponding tests are always performed correctly, in line with the current standards, and above all, in a neutral manner.

The Roto Sil Nano surface-finish generation sets quality standards. The systematic quality controls with the strictest test requirements warrant that every individual NT component is in accordance with our quality standards.

Only this exemplary quality management enables us to set new standards: The 10-year functional warranty for our partners – this is our benchmark.



Roto Frank AG Window and Door Technology

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10 year guarantee
for Roto NT standard hardware

Guarantee conditions and guarantee period

Roto warrants a 10 year guarantee on the components of the Roto NT hardware system. This guarantee is exclusively for the benefit of window fabricators that have installed the Roto hardware components in windows that they themselves have produced. All other persons are excluded from the guarantee.

The guarantee is only valid for hardware components bought by guarantee beneficiaries after the 1st of January 2008; the date of the conclusion of the sales contract with the beneficiary's address is applicable. The 10 year guarantee period commences on the date of delivery of the hardware to the fabricator.

The guarantee exclusively comprises operation of the hardware components. Natural wear and tear is not covered in this, nor are losses in aesthetics or convenience that lead to no functional loss.

Guarantee claims

In case of a guarantee claim, Roto grants functional equivalent replacement of the defective hardware component, without delivery and without installation. Claims for subsequent improvement and compensation are also excluded. The statutory rights of the guarantee beneficiary towards his seller are not restricted by this guarantee.

Claiming on the guarantee

The rights derived from this guarantee must be proven and invoked within a period of one month since the occurrence of the guarantee claim in written form to the Roto Frank AG.

Roto NT standard hardware consists of:

- Single and double-sashed rectangular windows with Turn-Chief and TiltChief sashes
- Hardware components that are used with timber, PVC or aluminium profiles
- Single-slide A, ES, K, N, U and Design
- Standard, floor-operated, over-rotation and Turn-Chief/Tilt-Chief
- 10 Only sashregulatives
- Roto Line, Roto-Gentle or Roto-Swing handles
- Charge-retaining windows with zinc die-cast / steel sashes
- Hardware components without electric drive and electronic components
- Hardware components excluding the lift-rod and armature bracket components
- Technically implemented within the framework of the "Roto application diagrams and installation instructions"

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1+1=10

Roto Sil Nano coating technology + the most demanding quality and testing standards =
10-year functional warranty on all NT components



Creates inner values