

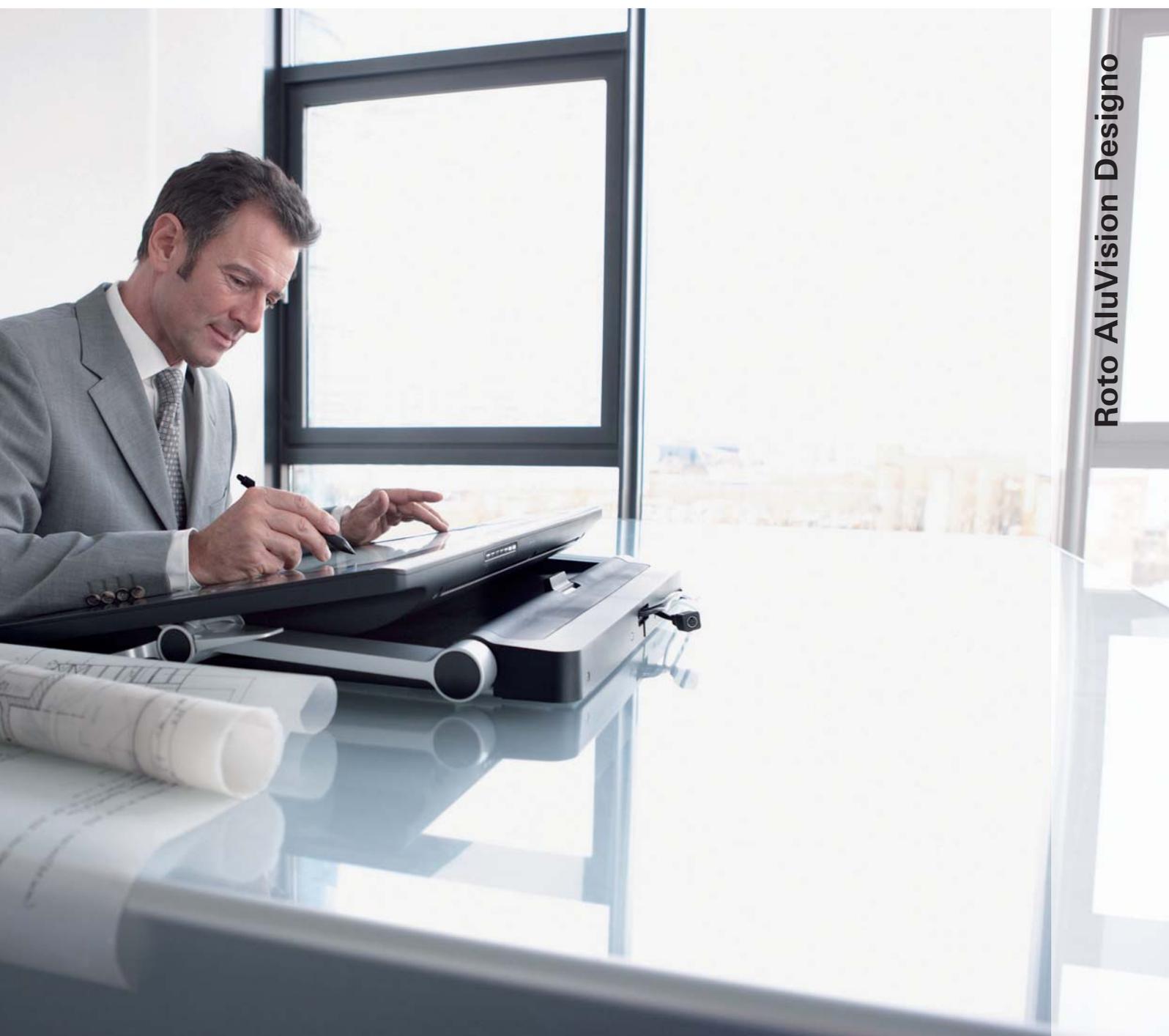
Window and door technology



Roto AluVision Designo

Concealed hardware
for aesthetic aluminium windows and balcony doors

For Euro-chamber profile systems



Roto AluVision Designo



AluVision Designo

Ultimate functionality. Perfect aesthetics

Roto: Pioneers in the aluminium sector

Roto hardware systems for aluminium windows and doors combine state-of-the-art technology with maximum security as well as appealing aesthetics. The modular design principle enables it to be integrated in almost all conventional Euro-chamber profile systems. Due to the use of corrosion-resistant materials, the hardware lasts longer and offers a high level of resistance against environmental influences. It's no wonder that aluminium windows with Roto fenestration technology are highly regarded all over the world.

Roto AluVision. Discover the progress

AluVision is the name for the new aluminium competence from Roto. What is behind all this? We want to make window fabrication even easier for you. Roto AluVision sets new benchmarks for fabrication friendliness and economic efficiency. And secondly, we have realigned and extended our product range. With this, you can react more flexibly to the market requirements. Excellent example: Roto AluVision Designo for large aluminium windows and balcony doors.

Roto AluVision Designo: Beauty from its best side

The requirements placed by planning engineers and architects on the aesthetics and functionality of windows are growing. Today there is literally a heavy emphasis on large sash elements and complex multiple glazing. At the same time, requirements for aesthetical shapes and slimline profile is growing. The less one sees of the fenestration technology involved, the better. Roto AluVision Designo meets these demands – as a fully concealed hardware system for large aluminium windows with a sash weight of up to 150 kg.

Discover the possibilities with Roto AluVision Designo.

Fully concealed up to 150 kg Because beautiful big rooms need beautiful big windows

Nothing detracts from the window's aesthetics

Regarding design and functionality Roto AluVision Designo sets new trends with its fully concealed hinge side. That is to say, no visible hinges from the outside that need to be colour-matched – nothing detracts from the window's aesthetics. As a result, only the window handle is visible and the window fits in perfectly with its surroundings.

High sash weights of up to 150 kg is not a problem!

Large sashes are aesthetically beautiful, but are heavy at the same time. Sash weights of over 100 kg are not uncommon. Unobtrusive hardware is therefore in demand for these "elegant heavyweights". The solution: Roto AluVision Designo – the completely concealed hardware system for large and heavy aluminium windows up to 150 kg. Your advantage: only one additional special component (also invisible from the outside), is enough to achieve the highest weight stability in conjunction with the standard hardware.

Large opening angle of 100 degrees

Others also offer concealed hinge sides. However a window opening angle of up to 100° is seldom found. Roto AluVision Designo meets these demands and offers with this an unrestricted view to the outside. Further design-related advantage: Unlike conventional concealed aluminium hardware, Roto AluVision Designo enables the sash to open fully, which results in a clear, unobstructed view.



Aluminium windows with Roto AluVision Designo and concealed hinges





High-quality architecture can be realised at any time

Either standard sash formats or individual architectural applications, with AluVision Designo there is the ideal solution for every challenge. Very narrow and high formats represent special challenges in the field of hardware systems. With the coupleable rebate hinge, even for fully concealed hardware systems the maximum freedom of sash from leaks can be achieved at the hinge side. The optional turn-restrictor (arrestable and damped) enables with its restriction of the opening width new application ranges to meet the most stringent demands.



High level of security for burglary resistance grade 2
by means of adjustable security cams

Small components create large security reserves

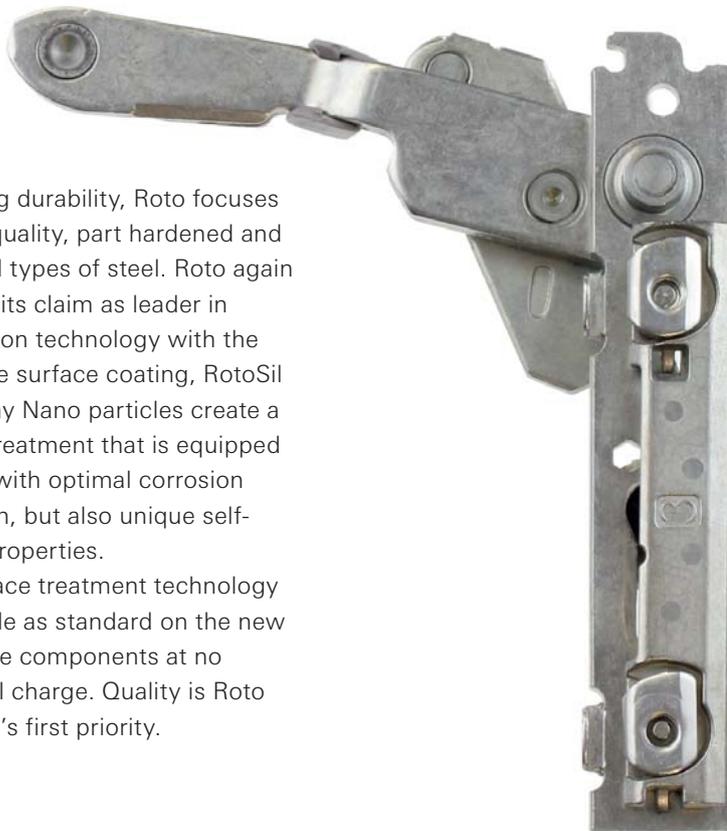
Roto AluVision Designo provides excellent burglary protection for concealed hardware. By integrating it into the modular T540 locking system, a high level of security is possible (burglary inhibition from RC1 up to RC3 in accordance with DIN EN 1627-1630). The small compact pivot rests provide a lot of space for additional security components and increased anti-jimmy protection.

All-round top design

The result: easy installation and extra long durability

Ultimate corrosion protection by means of the unique surface-finish: RotoSil Nano

Regarding durability, Roto focuses on high-quality, part hardened and tempered types of steel. Roto again confirms its claim as leader in fenestration technology with the innovative surface coating, RotoSil Nano. Tiny Nano particles create a surface treatment that is equipped not only with optimal corrosion protection, but also unique self-healing properties. This surface treatment technology is available as standard on the new hinge-side components at no additional charge. Quality is Roto AluVision's first priority.



Less parts, less installation time

All hinge-side components are clamped on the frame and sash, simplifying the installation. Everything fits perfectly and functions simply, quickly and therefore inexpensively. Form-fitting, positive clamping is ensured by a combination of clamp-block and clamp-strip with a piercing screw which penetrates the profile. Various clamp-strips are available for different profile geometries. In addition to that there is the convenient adjustment: Roto AluVision Designo can be installed and adjusted with max. 3 tools. The adjustment levels are clearly marked.

Easy adjustment on the sash stay
with 4 mm Allen key



Easy assembly of pivot rest and stay bearing
with Torx T20



No danger of catching your fingers!
The narrow gap on the hinge side reduces the risk of catching your fingers





RotoLine
Escutcheonless
window handle



RotoLine
Window handle



RotoLine
Geared-handle

Handle technology that fulfils all your customers' wishes

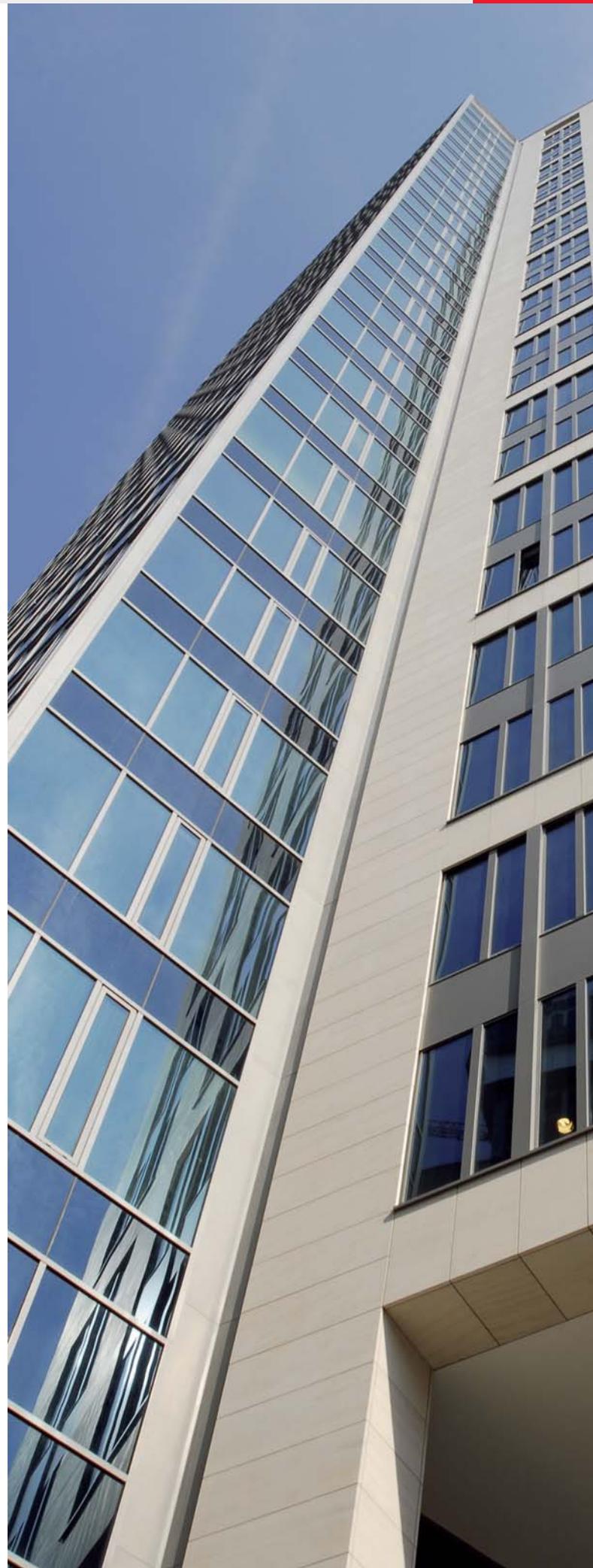
Roto also demonstrates its competence with handles: Apart from the well-proven RotoLine geared-handles – lockable or TiltFirst – Roto also offers you a flush encased gearbox combined with the elegant, escutcheonless RotoLine handle for Roto AluVision Designo. This not only provides completely new window aesthetics, but can be coordinated with the window profile. All RAL colours and special colours can be implemented.

Perfect for all opening types

All hardware versions are possible with Roto AluVision Designo: Tilt&Turn, Turn-Only, Tilt-Only, French windows and TiltFirst with sash weights of up to maximum 150 kg.

An overview of your advantages with Roto AluVision Designo:

- Fulfils the highest requirements placed on function and design
- Minimal installation effort
- Small, compact components
- Large opening angle
- High maximum sash weight
- Unique RotoSil Nano surface-finish





Creates inner values

Roto Frank AG
Window and door technology

Wilhelm-Frank-Platz 1
D-70771 Leinfelden-Echterdingen
Telephone +49 711 7598 0
Telefax +49 711 7598 253
info@roto-frank.com

www.roto-frank.com



Dated: August 2012. Subject to change. BRO_56_EN_v0
© 2012 Roto Frank AG * Roto is a registered trademark

From a single source: The optimum hardware system to meet all challenges

Roto AluVision | Comprehensive hardware solutions for windows and doors made of aluminium

Roto Door | The attuned range of components for permanently tight shutting doors

Roto NT | The world's biggest selling Tilt&Turn hardware system
for windows and balcony doors

Roto Patio | Hardware systems for large sliding windows and doors