

ALU achieves advancement with

# ease<sup>3</sup>

The complete ALU range:  
the complete spectrum of production-optimised hardware solutions  
for windows, doors and sliding doors made of aluminium.

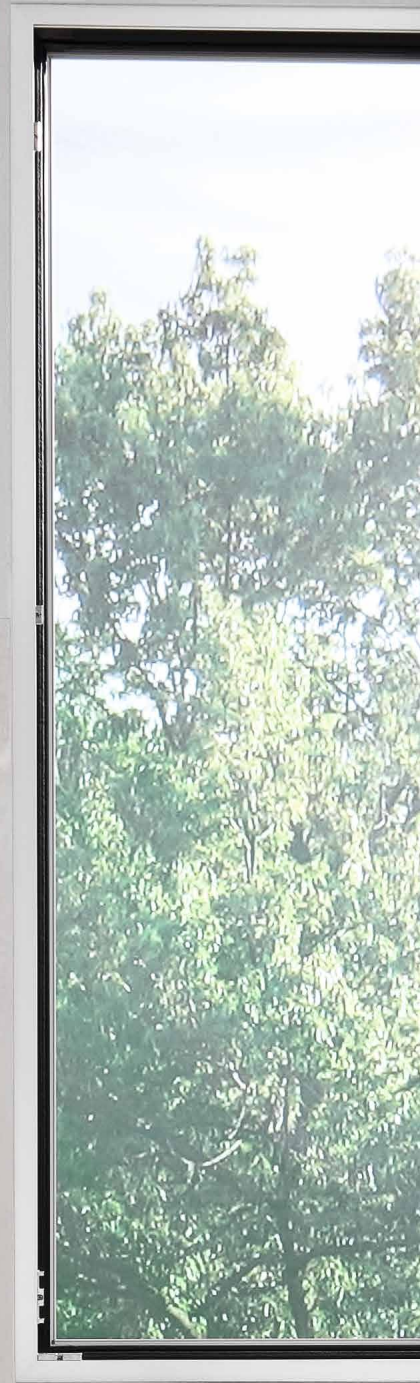


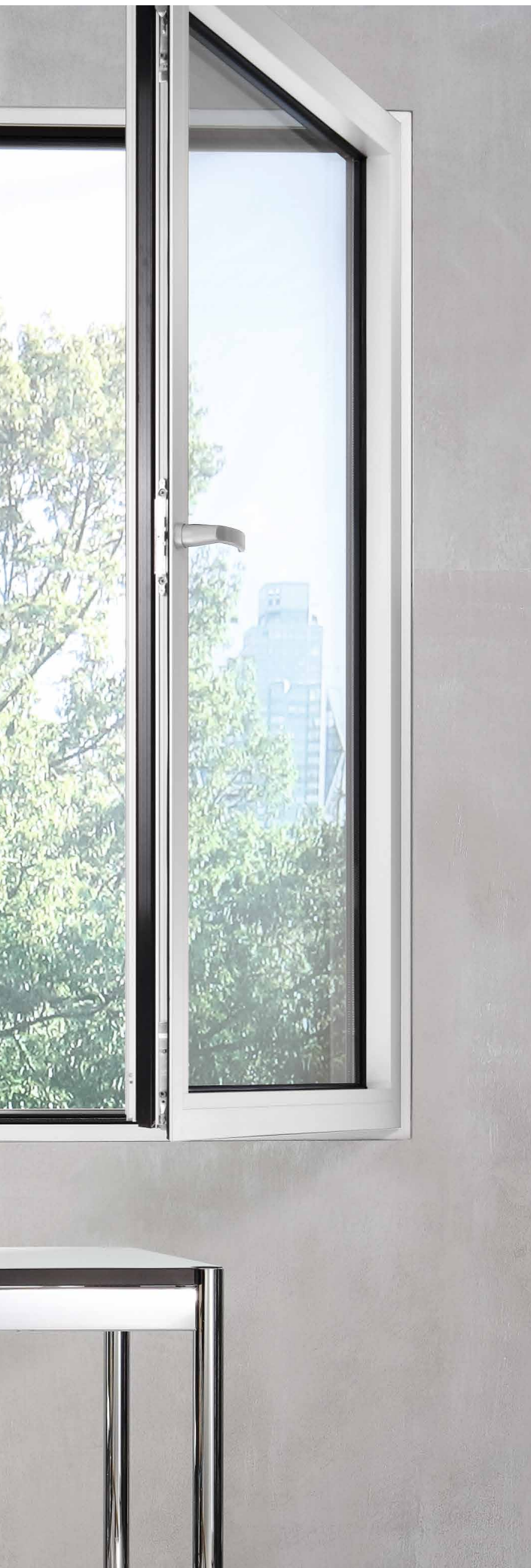
Window systems

Door systems

Comfort systems

Experience  
room comfort.  
We bring spaces  
to life.





### **For the room comfort of the future.**

Our products and solutions bring spaces to life and give people a sense of well-being. This is our drive and inspiration but also the key to permanent success together with our customers.

Our instinct for the requirements of the market, the developments of the future and for the demands of our customers has made us one of the leading international innovation providers today. We owe this to a staff of more than 2,800 in around 80 countries and to the intensive exchange of ideas with our partners and customers.

### **More than 100 years of experience.**

As a German family enterprise, for four generations now we have been developing future-oriented systems, which make your life easier in your everyday fabricating processes, and providing your customers with the security that comes with creating a home or a modern working environment out of four walls. You can experience this vision of room comfort for yourself in our showroom. Even if we didn't call it "room comfort" before: we have been working on this for over 100 years.

**SIEGENIA®**  
brings spaces to life

**Produce  
room comfort.**  
Tailor-made to  
your requirements.



### More solutions from one single source.

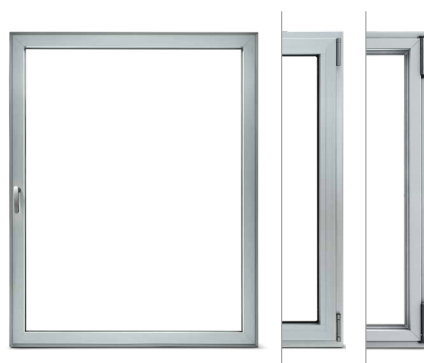
With a very diversified product portfolio for modern window systems, door systems and comfort systems, you can obtain everything from one single source with SIEGENIA, to stringently tested quality and with a wide range of innovations. Our complete ALU range offers you the entire hardware spectrum for windows, doors and sliding doors, extending to smart drive and access control systems.

### More flexibility and cost-effectiveness.

Versatile, innovative, efficient – where other systems reach their limits, our ALU complete range opens up more possibilities to fulfil the highest requirements and to set yourself apart from the rest of the market. This is provided by a modular system, which sets standards for the future, with a minimum number of components, a high degree of pre-assembly and the easiest fabrication. You can therefore deliver the matching solution for all opening types and weight classes as well as for every security, comfort and design requirement.

### Customised services.

It is often minor details that make such a decisive difference in practice. With SIEGENIA, you have a partner, who pays attention to every detail and who is aware of your everyday requirements better than anyone else. For this reason, we have pooled our product systems together perfectly with our complete know-how for you: in service packages that provide precise advice, information or on-site support. Whether this is for your production, training your staff, your marketing or your assembly line: we are there for you!



#### The ALU modular system.

Makes you master of logistics: all window hardware lines are only distinguished by their stay and hinge side. An extensive variant spectrum can be achieved with a minimum number of components and a high degree of preassembly.

# Plan room comfort. You can build on this.



## More planning quality with room comfort.

Our high-quality hardware, ventilation and building technology not only provides the building blocks for modern living and room concepts, but also well-coordinated systems. Because only when all room functions work together as one system can a room truly become a living space.

With SIEGENIA you have the freedom to create the comfort that brings spaces to life: room comfort.

## Extensive support.

We want to support you with qualified consultation and services. Our team of property advisors and application technicians as well as the corresponding data technology and software are at your disposal for this purpose.



[architekten.siegenia.com](https://architekten.siegenia.com)

# The complete ALU range

## Overview

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## Window hardware

More load capacity and freedom of design in the efficient modular system.

### Versatile.

ALU window hardware supplies you with the perfect building blocks for demanding customers and architecture. On the one hand, this is based on its diversity, ranging from the concealed turn-and-tilt hardware for design-oriented room concepts to turn-only hardware for highest weight classes and motorised drive systems - but it is also based on the high product quality. All window hardware ranges are certified in accordance with the particularly stringent QM 328 standards and the highest corrosion protection class.

### Innovative.

We monitor the market and its development to ensure that ALU is also the best basis for great ideas in the future. We are constantly working on innovations, which also set standards in production – for example, the very narrow turn-only manual ventilation windows, which offers completely new options for manual ventilation and facade design. For individual public buildings, we can also develop tailor-made solutions, testing them carefully for their practical suitability.

### Efficient.

Thanks to the ALU modular system, everything is not only possible, it is also more efficient. As all window hardware ranges are only distinguished by their stay and hinge side, extensive variations can be achieved with a minimum number of components. And you possess all options for individual scalability at any time to adjust your system precisely to the market or special project requirements. The modular structure of ALU window hardware facilitates the combination of hardware, accelerates your ordering procedures and slims down warehousing. The high degree of preassembly and the great adjustment range contribute to efficient production.



### Individual special solutions.

Future-oriented architecture often presents new demands on the hardware technology. With our 50-year expertise in residential and public buildings, we will also develop special solutions for you.

## ALU axxent PLUS

The fully concealed hardware for modern room concepts.

The ALU axxent PLUS enables a minimalist window design, which meets the highest aesthetic requirements. Very narrow profiles and larger glass areas are possible because all hardware components are concealed. The high load capacity of up to 150 kg sash weight provides the necessary safety reserves and dispenses with additional load-bearing rods. The system can be fabricated very efficiently due to the intelligent 3D adjustment and the high degree of preassembly.

### Planning and production

<b>Opening type</b>	DK / D / TBT / DS / K
<b>Window sash width</b>	380–1,600 mm
<b>Window sash height</b>	550–2,000 mm
<b>Patio door max. sash width</b>	≤ 1,300 mm (≤ 1,400 mm) <sup>1)</sup>
<b>Patio door max. sash height</b>	≤ 2,600 mm (≤ 2,800 mm) <sup>1)</sup>
<b>Max. sash weight</b>	150 kg
<b>3D adjustment option</b>	⊙
<b>Frame groove</b>	10–14 mm
<b>Frame clearance</b>	≥ 10 mm
<b>BS pre-assembled</b>	⊙
<b>Modular system</b>	⊙
<b>Quality assurance</b>	QM - 328 certified (H3) corrosion class 5

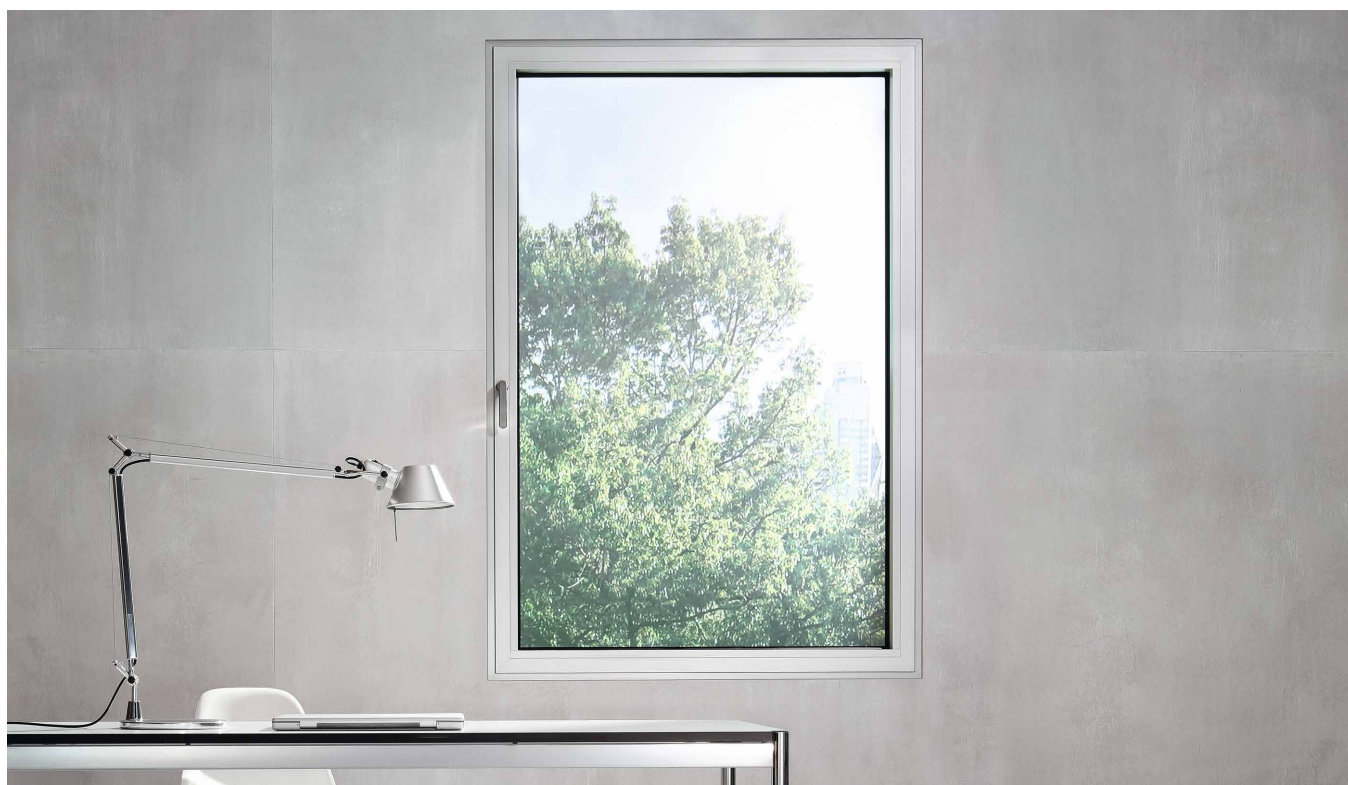
<sup>1)</sup> profile-specific

### Options for greater room comfort

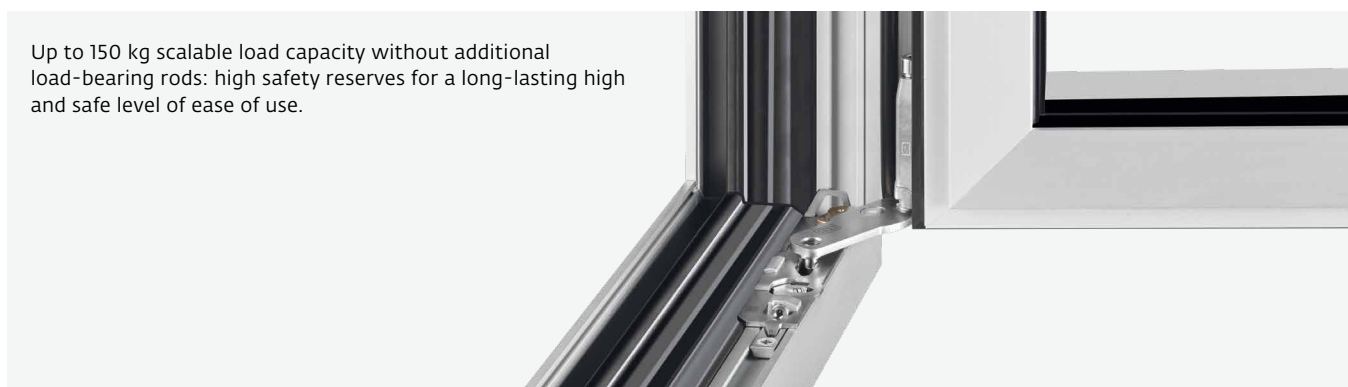
<b>Burglar resistance</b>	up to RC 3
<b>Barrier-free in accordance with DIN 18040</b>	profile-specific
<b>Motorised drive</b>	DRIVE axxent DK DRIVE axxent

### Benefits

- Fully concealed for a perfect window design
- Very narrow profiles and larger glass areas are possible
- Quick and easy assembly: small number of clampable compact components with a high degree of preassembly
- Anti-slam device for the stay in the tilted position
- Large opening angle of 110° in turning position



Up to 150 kg scalable load capacity without additional load-bearing rods: high safety reserves for a long-lasting high and safe level of ease of use.



## ALU axxent PLUS LK

### The new hardware solution for very narrow manual ventilation windows.

The ALU axxent PLUS LK hinge side provides new possibilities for manual fresh air supply with a perfect façade image due to sash widths from 170 mm. Depending on the profile, the fall protection could also be omitted. Both panel and glass versions can be achieved in numerous variants with the simplest fabrication so that no space is forfeited in the room. An active centre lock is additionally available for greater sash heights, which prevents sash warping even in case of considerable temperature fluctuation.

#### Planning and production

<b>Opening type</b>	D
<b>Window sash width</b>	≥ 170 mm <sup>1)</sup>
<b>Window sash height</b>	550–3,000 mm
<b>Max. sash weight</b>	100 kg
<b>3D adjustment option</b>	⊙
<b>Frame groove</b>	10–14 mm
<b>Frame clearance</b>	≥ 10 mm
<b>BS pre-assembled</b>	⊙
<b>Modular system</b>	⊙

<sup>1)</sup> profile-specific

#### Options for greater room comfort

<b>Burglar resistance</b>	on request
<b>Barrier-free in accordance with DIN 18040</b>	profile-specific

### Benefits

- Suitable for the narrowest turning sashes from 170 mm sash width
- Optionally with active centre lock for greater sash widths
- Fully concealed hinges: narrower profile views and larger glazed areas
- High variant diversity for panel and glass versions
- Quick fabrication and assembly: continuous height and side adjustment, mounting of the sash at the building site is possible
- Load capacity of up to 100 kg for long-term and safe window operation



## ALU 5200, ALU 5100, ALU 2200

Powerful hardware with surface-mounted hinge side for a wide range of requirements.

These three turn-and-tilt hardware versions ensure highly efficient fabrication due to the high degree of preassembly and the minimum number of components, which can also be clamped into place and used DIN-LH or DIN-RH.

Moreover, you can flexibly adjust the ALU 5200 and ALU 5100 hardware ranges to the respective market requirements or special project requirements and thus optimise your costs: thanks to the simple scalability of the load-bearing capacity and resistance class or individual comfort equipment.

Planning and production	ALU 5200	ALU 5100	ALU 2200
<b>Opening type</b>	DK / D / TBT / DS / K	DK / D / TBT / DS	DK / D / TBT / DS
<b>Window sash width</b>	365–1,600 mm	375–1,600 mm	375–1,600 mm
<b>Window sash height</b>	550–2,000 mm	550–2,000 mm	550–2,000 mm
<b>Patio door max. sash width</b>	≤ 1,300 mm (≤ 1,400 mm) <sup>1)</sup>	≤ 1,300 mm	≤ 1,300 mm
<b>Patio door max. sash height</b>	≤ 2,600 mm (≤ 2,800 mm) <sup>1)</sup>	≤ 2,400 mm	≤ 2,400 mm
<b>Max. sash weight</b>	170 kg	100 kg	80 kg
<b>Non-handed</b>	⊙	⊙	⊙
<b>3D adjustment option</b>	⊙	⊙	⊙
<b>Frame groove</b>	10–14 mm	10–14 mm	10–14 mm
<b>Frame clearance</b>	≥ 18 mm	≥ 18 mm	≥ 17.5 mm
<b>BS pre-assembled</b>	⊙	⊙	⊙
<b>Modular system</b>	⊙	⊙	⊙
<b>Quality assurance</b>	QM - 328 certified (H3) corrosion class 5	QM - 328 certified (H2) corrosion class 5	QM - 328 certified (H2) corrosion class 5

<sup>1)</sup> profile-specific

Options for greater room comfort	ALU 5200	ALU 5100	ALU 2200
<b>Burglar resistance</b>	up to RC 3	up to RC 2	up to RC 2
<b>Barrier-free in accordance with DIN 18040</b>	⊙	⊙	⊙
<b>Motorised drive</b>	DRIVE axxent DK DRIVE axxent	on request	on request
<b>Colours</b>	Silver RAL 9005 RAL 9016 Untreated EV1 anodized Special colour	Silver RAL 9005 RAL 9016 Untreated EV1 anodized Special colour	Silver RAL 9005 RAL 9016 Untreated Special colour

### Benefits

- Quick and easy assembly: small number of clampable compact components with a high degree of preassembly
- Left/right-hand use for minimum logistics expenditure
- 3D adjustment for tolerance compensation without problems
- ALU 5200 with flexible, scalable load capacity: 100, 150 and 170 kg
- ALU 5100 with flexible, scalable load capacity: 80 and 100 kg



Stay with integrated anti-slam device for secure tilt position even in case of high wind loads.



## ALU D300, ALU DK200

### Load-bearing capacities for the highest weight classes.

When window weights and architecture push forward into new dimensions, no compromises can be made with regard to load capacity and long service life. The elegant power packages ALU D300 and ALU DK200 fulfil this requirement with ease and combine maximum load capacity with maximum functionality. While the ALU D300 is specially designed for turning sashes of up to 300 kg sash weight due to its additional centre hinge, the ALU DK200 also offers a very flexible and smooth turn and tilt or tilt and turn solution for weights up to 200 kg.

#### Planning and production

	ALU D300	ALU DK200
<b>Opening type</b>	D	DK / D / TBT / DS
<b>Window sash width</b>	350 (profile-specific) – 1,800 mm	550–1,800 mm
<b>Window sash height</b>	1,100–2,000 mm	1,100–2,000 mm
<b>Patio door max. sash width</b>	≤ 1,500 mm	≤ 1,500 mm
<b>Patio door max. sash height</b>	≤ 3,000 mm	≤ 2,800 mm
<b>Max. sash weight</b>	300 kg	200 kg
<b>3D adjustment option</b>	⊙	⊙
<b>Frame groove</b>	10–14 mm	10–14 mm
<b>Frame clearance</b>	≥ 20 mm	≥ 23 mm
<b>Modular system</b>	⊙	⊙
<b>Quality assurance</b>	QM - 328 certified (H3) corrosion class 5	QM - 328 certified (H3) corrosion class 5

#### Options for greater room comfort

<b>Burglar resistance</b>	up to RC3 on request	up to RC 3
<b>Barrier-free in accordance with DIN 18040</b>	⊙	—
<b>Colours</b>	Silver RAL 9016 Untreated EV1 anodized Special colour	Silver RAL 9016 Untreated Special colour



### Benefits

- ALU D300 for turn-only windows with up to 300 kg sash weight: with additional centre hinge for high compression and stability
- ALU DK200 for turn and tilt and tilt-before-turn windows up to 200 kg: with anti-slam device on the stay for safe tilting in case of wind load
- Product-compatible modular system ensures efficient logistics
- Easily accessible 3D adjustment for tolerance compensation without problems



## Handle range

Combine aesthetics and ergonomics with more functional safety and burglar resistance.

### **ALU GLOBE RR design handle with ring rosette and routed-in drive gear**

Perfect handling, perfect design.

The curved, droplet shape of the handle really fits well into your hand. In combination with the discreet ring rosette, it rounds off a modern window design clearly and harmoniously.

The ALU GLOBE RR design handle can be quickly mounted on the ALU routed-in drive gear without tools. To achieve a smooth commissioning process, this can also happen after the completion of all construction work.



### Handle for drive gear **ALU GLOBE** and **ALU Si-line**

Hands-on quality.

Our ALU GLOBE and ALU Si-line handles for drive gear are available in a wide range of versions and for all opening variants. The design possibilities are practically limitless. Beside the classical silver tone or the INOX design, all RAL colours are achievable.

A tilt-before-turn function is integrated in the available lockable version as standard.



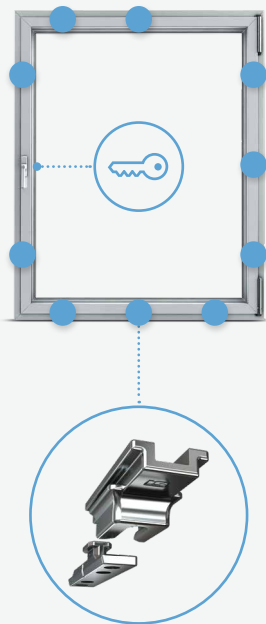
## Accessories

For individual security and comfort requirements.

### Burglar resistance up to RC3

Complete safety and efficiency.

All ALU hardware lines achieve burglar resistance up to RC2 with only a few additional resistant components. They can also be upgraded without problems in order to achieve burglar resistance up to resistance class RC3 or SKG\*\*\*. All locking side components for the central locking gear are available as a complete set for turn-only, turn and tilt or tilt-before-turn sashes, which can also be extended by centre locks according to window format.



### Sash lifter

Almost defies gravity.

The sash lifter lifts the sash a little while closing. In this way it allows even wide window sashes with a weight of 300 kg to slide optimally into the frame even after years of use. The sash lifter can be used on the right or left, can be easily retrofitted and is also ideal for double-sash elements.



### Opening restrictor

Absorbs the force and gently cushions the sash.

For more ease of use and operating safety, the opening restrictor unfolds its braking and cushioning effect throughout the complete opening area. All components are manufactured from rustproof materials, ensuring a surface finish that lasts. The opening restrictor can be easily clamped in the sash and frame groove.



### Mishandling device

Safe protection against improper operation.

The ALU overall programme offers a wide range of multifunctional components, which together prevent mishandling: the coupling set that can easily be screwed onto the handle, the corner drive to be fixed in the sash groove or the clever routed-in drive gear.



### Secondary sash gear and shoot bolt

Universal comfort solution with variable handle position.

This clampable solution, which can be used for the widest range of profile systems, may be operated manually via the shoot bolt or via a central secondary sash gear. The shoot bolt, designed for high wind loads up to 3,000 Pascal, can be coupled and the operating height of the handle can be varied.



### Summer-winter night vent

More convenient ventilation thanks to controllable tilt opening width.

In this way, the tilt opening width can be reduced to 40 mm with one simple motion to conveniently adapt the supply air to the outdoor area. This prevents draughts and helps to save energy. The profile-independent solution with integrated anti-slam device is simple to clamp and can be retrofitted at any time.



Summer-vent  
feature



Winter-vent  
feature



## Motor function and monitoring

Make life easy in high-end residential and commercial buildings.



### **DRIVE axxent DK**

Concealed tilt sash locking drive for tilt and turn-and-tilt windows with maximum comfort.

Whether we are talking about hard-to-reach windows or simply greater room comfort: with the option of fully automatic window ventilation, the value of the property rises together with the quality of life provided by this drive. The DRIVE axxent DK is completely integrated in the frame profile for an evocative design and combines the functions "tilt", "lock" and "release" in one single system. Turn opening is still possible with turn-and-tilt elements: either driven manually or by motor, for example, to clean the window.

Control is via push button, remote control or via the building control system. Operation via the SIEGENIA Comfort app is possible due to the optional WIFI module. You will find all the information on the SIEGENIA Comfort app from page 54.

If the window is pushed closed, the Auto-Lock function locks the element automatically. The handle is no longer required.



**DRIVE axxent**

Concealed motion chain drive  
for modern transom windows.

With its large opening width of 350 mm and flexible control options, the DRIVE axxent allows convenient, effective ventilation by tilting hard-to-reach transom windows. Apart from a discreet cover panel, the powerful DRIVE axxent drive is fully concealed and can be used for a wide range of window systems and profiles. As with the DRIVE axxent DK, operation via the SIEGENIA Comfort app is an option.

**AEROCONTROL magnetic switch**

Opening and locking monitoring up  
to VdS class C.

With these integrated magnetic switches, concealed in the profile, windows can be integrated into central monitoring or alarm systems. The opening status as well as whether they have been properly locked can be checked. Connection to thermostat valves through the building control system is also possible.







# Sliding door hardware

More ease and freedom of design in every opening type and in every weight class.

## Versatile.

The true size of a room is measured not in square meters, but in apparent spaciousness and natural daylight. Here large sliding doors play out their strengths. With PORTAL sliding door hardware, these can be operated safely and as lightly as a feather in every size, opening type and weight class – by push button or via the SIEGENIA Comfort app. In this way, you will create the space for a living and working environment of tomorrow with PORTAL.

## Innovative.

You can achieve much greater ease of operation and practically "dissolve walls into thin air" with PORTAL sliding door hardware due to maximum product quality and innovative supplementary options, ranging from upgradeable comfort components to motorised drives. Thanks to the opening width up to 12 m and the large selection of various opening types, PORTAL doors adapt perfectly to any space and any project requirement.

## Efficient.

PORTAL does not only stand for more space, ease of use and variant diversity, it also offers you the best perspectives for more streamlined logistics and ease of fabrication. The clever modular system allows its efficiency to commence with the ordering procedure and ensures time and cost-saving throughout the entire production process due to the low number of components, the high degree of preassembly and the flexible adjustment and scalability options.



### Large lift and slide elements with smart motor function.

PORTAL brings more light and ease of movement into clear design concepts. Even sash weights of up to 400 kg can be moved and locked via app with our drive system.

## PORTAL HS ALU

The powerful lift-slide system for greater comfort and opening widths.

With an opening width up to 12 m and a total width of approx. 20 m, PORTAL HS ALU brings movement into modern design concepts with ease. After several decades of development, even lift and slide elements with a sash weight of 400 kg can be operated explicitly conveniently and safely.

The innovative upgradeable options offer you all possibilities for individual scalability, while the low number of components and the high degree of preassembly accelerate the entire production process.

### Planning and production

Opening type	Lift-slide
Max. overall width	19,800 mm (for scheme L)
Sash width	590–3,335 mm
Sash height	1,175–3,325 mm
Max. sash weight	400 kg
Quality assurance	QM - 346 certified (H3) corrosion class 5
Schemes	A, C, D, G, E

### Options for greater room comfort

Achievable resistance class in accordance with EN 1627-1630	up to RC3 (profile-specific)	
Barrier-free in accordance with DIN 18040	⊙	
Night vent	⊙	
SOFT CLOSE function	⊙	
Special features	Optional comfort gear with energy storing mechanism	
Motorised drive	DRIVE axxent HSA smart MHS400 smart	
Opening and locking monitoring system AEROCNTR0L	⊙	
Handle types	Large selection of white tones Silver Stainless-steel finish Titan matt light F9	EV1 anodized EV2 anodized Old gold Medium bronze RAL 8019 RAL 8022 RAL 9005

### Benefits

- Flexibly scalable load capacity up to 200 kg, 300 kg or 400 kg
- Quick and easy assembly: low number of components, higher degree of preassembly and optimum adjustment opportunities
- Distance pieces for HS 200 bogie wheels for use in broad groove
- Smooth, safe operation and night vent as a standard for use in a broad groove
- High level of basic security as standard, upgradeability up to RC3
- Profile-specific with SOFT CLOSE: cushions the sash and closes it gently
- AEROCONTROL opening and locking monitoring system possible



## Accessories

Elevate the comfort to the highest level.

### ALU Si-line handle

Quality that you grasp immediately.

PORTAL HS handles provide noiseless locking and release free of play with lasting high functional security. They are perfectly coordinated with the lift-slide-hardware and the sash weight and are available in a large range of colours. There is also the option of painting if there are special requirements. A wide range of sliding door configurations is possible due to the variant diversity.



### Comfort gear

Minimises the force required for lifting heavy sashes.

For the comfort gear, an accumulator comes preassembled and ready for installation for heavyweight sashes. A special spring hidden in the comfort gear uses the weight of the sash to reduce the torque and lift the sash even more easily. The handle is prevented from snapping back in an uncontrolled manner when the sash is lowered into the locking position. Depending on the comfort requirement, a damper can be used additionally for the comfort gear for sash weights from approx. 300 kg. This will further prevent the handle from snapping back.

### HS 400 compact bogie wheels

Putting heavyweights into motion really easily.

Due to their self-aligning load distribution on eight wheels, the bogie wheels weightlessly slide even heavyweight sashes to and fro. The extremely low installation height allows exceptionally narrow sash profiles and the omission of a tandem solution for 300–400 kg sash weights shortens the assembly times.



## Motorised drives

Powerful drive systems for intelligent living.



### **DRIVE axxent HSA smart**

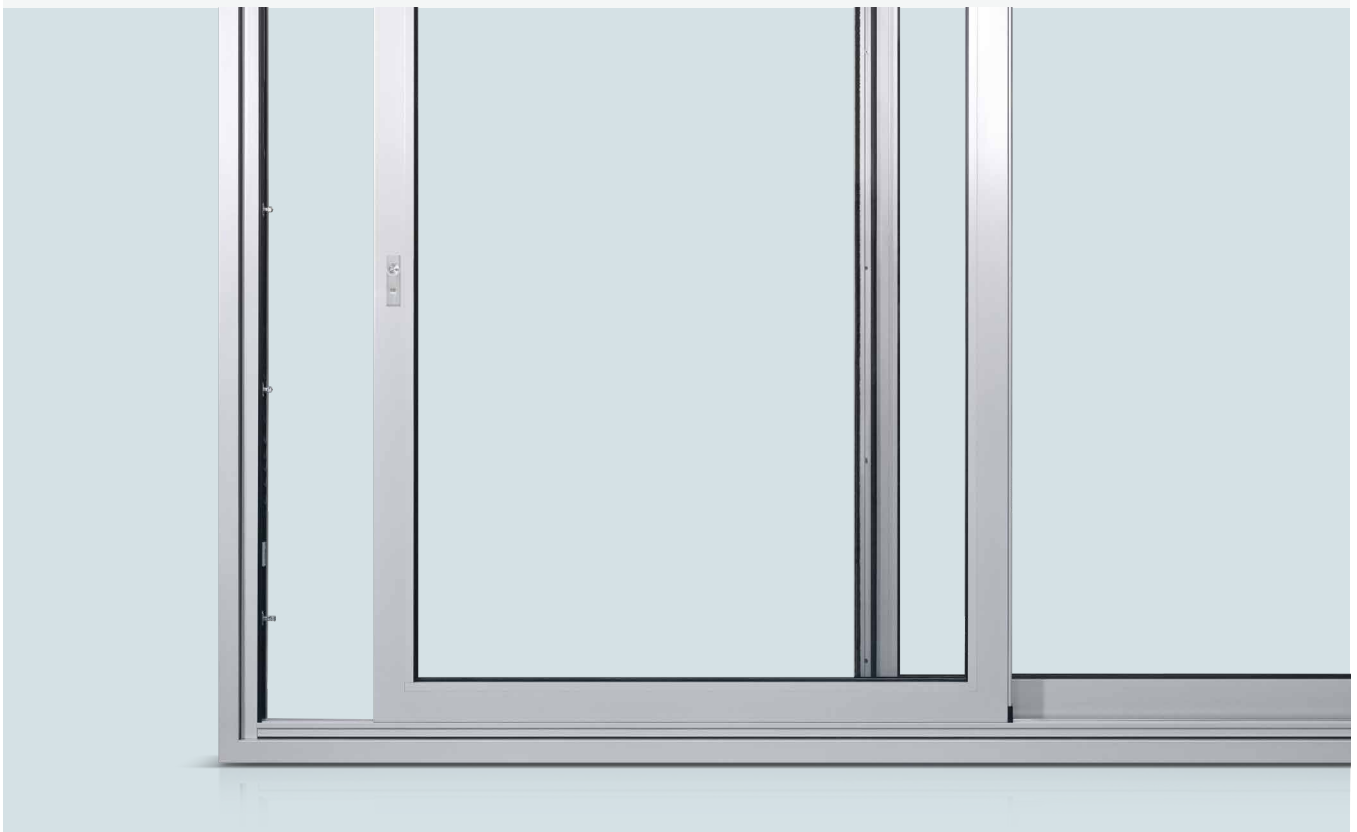
Maximum ease of use and clear design benefits.

Sash weights of up to 400 kg can be opened, closed and securely locked fully automatically with this partially concealed and scalable to cost-benefit drive system. And the fully concealed lift drive provides clear benefits in design. Due to the standard integrated WIFI module, operation functions with a push button as well as via the SIEGENIA Comfort app: with clever additional functions like the motorised start-up of the night vent or a restricted opening width.

### **MHS400 smart, MSA400 smart**

Fully automatic and can be retrofitted without problems.

Sash weights of up to 400 kg can also be automatically opened and closed via app or button with the lift-slide drive MHS400 smart and the slide drive MSA400 smart. Motorised locking and unlocking is also possible with the MHS400 smart. As both drive systems function independently of hardware and profile manufacturer, they can also be retrofitted.



## PORTAL ECO SLIDE ALU

More options and cost-effectiveness for sliding doors and sliding windows.

The extremely cost-effective and easy-to-assemble PORTAL ECO SLIDE ALU sliding hardware consistently brings the ease of use of lift-slide systems and the compression of parallel slide & tilt systems under one umbrella. The combination of special bogie wheels and innovative guiding and locking elements ensures first-class thermal insulation and intuitive ease of use with night vent function as standard. When it is used as a window system, the sliding hardware saves ample space in interior rooms in comparison with inwardly turning windows.

### Planning and production

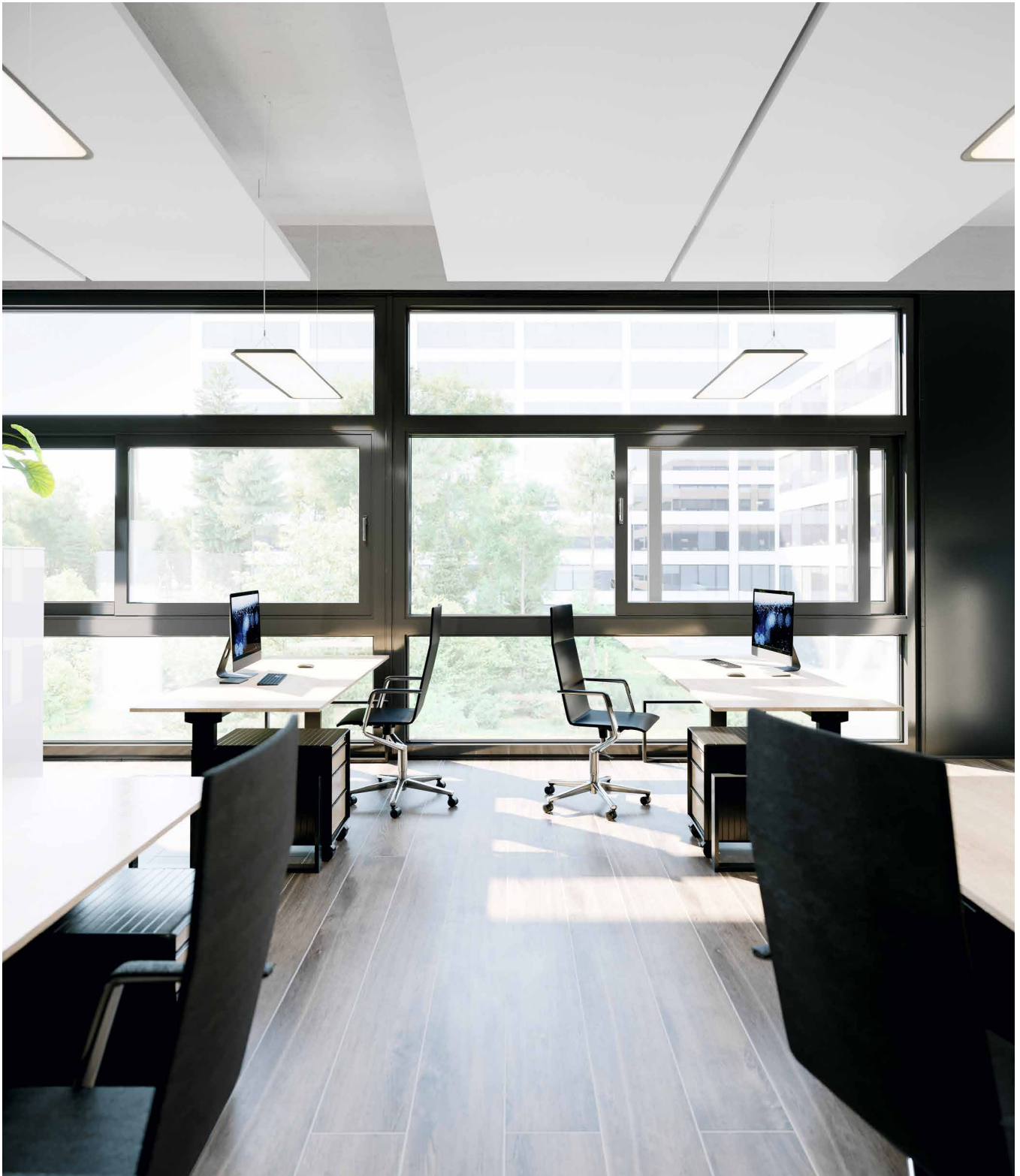
<b>Opening type</b>	Slide
<b>Max. overall width</b>	10,000 mm (for scheme K)
<b>Sash width</b>	680–2,500 mm
<b>Sash height</b>	1,200–2,500 mm
<b>Max. sash weight</b>	250 kg
<b>Quality assurance</b>	QM-346 certified (H2) Corrosion class 5
<b>Scheme</b>	A

### Options for greater room comfort

<b>Night vent</b>	⊙
<b>SOFT CLOSE function</b>	⊙
<b>Special features</b>	Concealed bogie wheels and innovative guiding and locking elements possible as a sliding window or sliding door
<b>AEROCNTRON opening and locking monitoring system</b>	⊙

### Benefits

- Especially cost-effective solution for sliding doors or windows
- Quick and easy assembly: low number of components, higher degree of preassembly and adjustment opportunities
- High energy efficiency due to continuous seal for high compression as well as innovative guiding and locking elements in every sash corner
- Intuitive operation: ideal for changing user groups
- Night vent as standard
- Profile-specific with SOFT CLOSE: cushions the sash and closes it gently



# PORTAL PS/PSK comfort ALU

## Parallel-slide and parallel tilt & slide systems for intuitive operation and fabrication.

The new PS/PSK comfort generation is a class in itself from the modular system to operation. The innovative comfort components make the opening and closing process especially safe and easy as well as absolutely intuitive. With a gentle and protective sliding comfort, which is unrivalled, and with continuous seals protecting against energy loss. The entire hardware concept is just as efficient and flexible. Because you can elevate your basic equipment, according to customer requirement, with just a few additional components very quickly and flexibly to the maximum level of comfort.

### Planning and production

	PORTAL PS comfort ALU	PORTAL PSK comfort ALU
<b>Opening type</b>	Parallel slide	Parallel slide & tilt
<b>Max. overall width</b>	8,000 mm (for scheme C/K)	8,000 mm (for scheme C/K)
<b>Sash width</b>	670–2,000 mm	670–2,000 mm
<b>Sash height</b>	840–2,800 mm	840–2,800 mm
<b>Max. sash weight</b>	200 kg	200 kg (profile-specific)
<b>Quality assurance</b>	QM-347 certified (H3) Corrosion class 5	QM-347 certified (H3) Corrosion class 5
<b>Schemes</b>	A, C, G, K	A, C, G, K

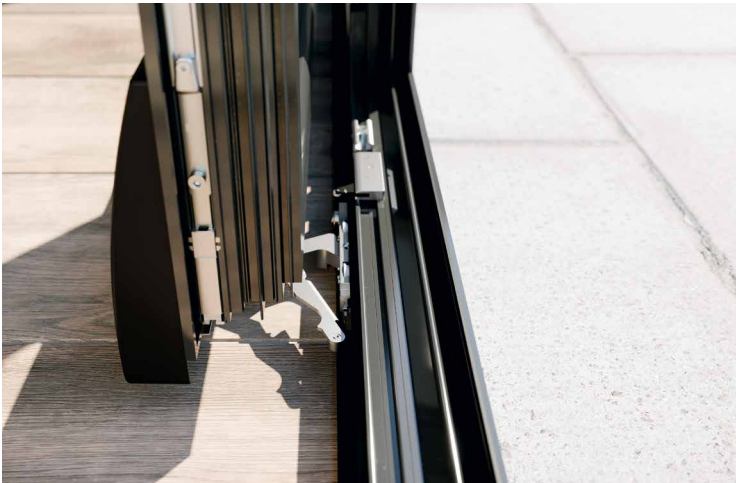
### Options for greater room comfort

<b>Achievable resistance class in accordance with EN 1627–1630</b>	RC2 (profile-specific)	RC2 (profile-specific)
<b>Night vent</b>	⊙	—
<b>SOFT CLOSE function</b>	⊙	⊙
<b>Special features</b>	Comfort components for intuitive operation	Positive control (version PSK-Z) Comfort components for intuitive operation (version PSK160 comfort)
<b>AEROCONTROL opening and locking monitoring system</b>	⊙	⊙
<b>Colours</b>	Silver Old gold RAL 8022 RAL 9003 F9 colours Special colour	Silver Old gold RAL 8022 RAL 9003 F9 colours Special colour



### Benefits

- Intuitive ease of use: suitable for changing user groups
- Very quiet operation and swings open and closed smoothly
- High energy efficiency due to continuous seal
- Easy scalability due to innovative comfort components
- High level of basic security as standard, upgradeability up to RC2 without problems
- Simplified assembly: bogie wheels with height and tilt adjustment
- Maximum flexibility with 125 mm frame to sash clearance and small dimensions also suitable for extremely narrow or deep-set sash profiles



## PORTAL FS<sup>PLUS</sup> ALU

The fold and slide hardware for large opening widths and full flexibility.

With the PORTAL FS<sup>PLUS</sup> ALU, fold and slide elements with up to seven elements can be folded together easily and also to be used to be barrier-free if desired. This results in opening widths of up to 6.3 m, great freedom of design and also numerous benefits in fabrication. The hardware covers can be painted in different colours and the high-quality surfaces are also suitable for outside areas. The efficient assembly technology provides more flexibility and cost-effectiveness.

### Planning and production

Opening type	Fold and slide
Max. overall width	6,300 mm
Sash width	330–900 mm
Sash height	840–2,400 mm
Max. sash weight	80 kg
Quality assurance	QM-345 certified (H3) Corrosion class 5
Schemes	321, 330, 431, 541, 550, 532, 651, 633, 761, 770, 743

### Options for greater room comfort

Special features	Turn-and-tilt sash can be integrated, can open inwardly and outwardly
Colours	Silver Medium bronze RAL 1011 RAL 8019 RAL 8022 RAL 9003 RAL 9005

### Benefits

- Practically unrestricted opening width of up to 6.3 m
- Up to 80 kg sash weight
- Especially smooth sash running: top or bottom, same profile set
- Maintenance-free sash hinges due to PVC bearing
- Available in a highly corrosion-resistant stainless-steel finish
- Turn-and-tilt sash can be integrated
- Barrier-free threshold version is possible





## Door hardware

The entire range of modern multi-point locks and intelligent locking systems.

### Versatile.

With a solution diversity ranging from high-quality mortise locks, mechanical and electromechanical multi-point locking systems to digital access control systems and a diverse range for panic doors, our KfV door hardware does not only make your doors more secure, comfortable and intelligent. They also provide you with all options you need to develop new markets and to distinguish yourself sustainably.

### Innovative.

In the future, room comfort will begin at the door with KfV door hardware. Because it can be combined with an uncompromising resistance strength with intuitive ease of use and an elegant appearance. For example, due to our automatic multi-point locking systems, which are linked to an intelligent access control system as plug & play solutions via the SI-BUS technology. Or also due to our fully concealed axient door hinge for modern aluminium doors.



### Efficient.

Due to multi-point locks with uniform routing templates and freely combinable product families, our KfV door hardware has always made our large product range lean and efficient. With our new modular system, the proven KfV system benefits have been subjected to consistent further development and the boundaries of modularity have been completely newly defined. This also amalgamates the country-specific requirements and customer requirement, while uniform milling dimensions and fixing positions for all multi-point locks or clever plug & play solutions accelerate and definitely facilitate your production.



### Tailor-made efficiency.

Uniform routing templates for different types of lock and freely combinable product families.

Access control systems and motor function as clever plug & play solutions.

## axxent door hinge

The fully concealed hinge side for modern aluminium doors.

The design is elegant and timeless, but the assembly is quick and easy. The fully concealed assembly makes aluminium doors into discreet elements of design, thereby supporting the achievement of high-end living concepts. As a two-part design, only one person is needed to lift the door sash on or off and there is complete freedom for lateral, height and pressure adjustment.

### Planning and production

Max. door weight	120 kg
Max. opening angle	100°
Height adjustment	+ 4 mm / -2 mm
Side adjustment	+ 8 mm / -2 mm
Pressure adjustment	+ 1.5 mm / -1.5 mm
Quality assurance	QM - 343 certified



### Benefits

- Robust technology in elegant design for aluminium doors up to 120 kg
- Easy installation due to minimum profile milling
- The two-part hinge with frame and sash part makes it possible for only one person to lift the door leaf on or off
- Comfortable 3D adjustment paths for side, height and pressure adjustment
- High compression and energy efficiency due to the lean design



## Key-operated KFV multi-point locks

Simply multiple benefits: more efficiency and diversity, more security and comfort.

KFV multi-point locks are perfectly coordinated locking systems, which fulfil maximum requirements. In the key-operated variants, multiple, secure locking is accomplished by a convenient double-turn of the key via the main lock. In the process, massive steel round bolts, clawing hook bolts or both locking types are employed in the auxiliary lock case. You can have a precise and extremely efficient solution for every situation due to the fully compatible product programme and the uniform routing templates.

### Planning and production

	BS 2300	BS 2500	BS 2600
<b>Lock type</b>	Locking part with 2 round bolts	Locking part with 2 hook bolts	Locking part with round bolt - hook bolt combination
<b>Door height can be extended</b>	up to 3,000 mm	up to 3,000 mm	up to 3,000 mm
<b>Latch changeover (DIN RH/LH adjustable)</b>	⊙	⊙	⊙
<b>Locking rail with Adjustment option +/- 2.5 mm</b>	⊙	⊙	⊙
<b>Individual striker plates with Adjustment option +/- 2.5 mm</b>	⊙	⊙	⊙
<b>Secondary sash lock bolt for double sash entrance doors</b>	⊙	⊙	⊙
<b>Quality assurance</b>	DIN, RAL, SKG	DIN, RAL, SKG	DIN, RAL, SKG

### Options for greater room comfort

<b>Achievable resistance class in accordance with EN 1627-1630</b>	up to RC2	up to RC3	up to RC3
<b>Main lock: safety class in accordance with DIN 18251</b>	3	3	3
<b>Soft lock latch</b>	⊙	⊙	⊙
<b>Safety lock</b>	⊙	⊙	⊙
<b>Snib latch due to additional component</b>	⊙	⊙	⊙
<b>Day latch</b>	⊙	⊙	⊙
<b>Bolt switch contact control system</b>	—	⊙	⊙
<b>Concealed axxent door hinge</b>	⊙	⊙	⊙



### Benefits

- Modular structure for more productivity and process safety
- Uniform routing templates and screwing positions in all variants
- Robust burglar resistance up to RC3 and smooth-running gear
- Optimum sealing and high thermal insulation
- Series BS 2300: steel round bolt with starting angle
- Series BS 2500: hook bolt
- Series BS 2600: combination of both for maximum security



# Automatic KFV multi-point locks

## Automatic closing and locking for keyless ease of use and permanent security.

With automatic KFV multi-point locks, doors can be closed or securely locked merely by drawing the door closed. There are different versions for the individual requirements and purposes. With its triple self-locking function, the AS 2750 gives long-term protection against door warping and against unauthorised entry attempts, even when unlocked, by pushing the main lock latch back. The auxiliary lock case can also be locked without a key and automatically: magnetically in case of the AS 3500 and magnetically triggered in case of the AS 3600. The electromechanical multi-point lock GENIUS, which is equipped with integrated control electronics and a powerful gear motor, additionally locks the main lock and simultaneously provides maximum sealing.

### Planning and production

	AS 2750	AS 3500	AS 3600
<b>Lock type</b>	3-latch lock with 2 hook bolts	Automatic lock with 2 hook bolts, magnetic	Automatic lock with 2 falling bolts and 2 hook bolts, mechanical
<b>Door height can be extended</b>	up to 2,400 mm	up to 2,400 mm	up to 2,400 mm
<b>Latch changeover (DIN RH/LH adjustable)</b>	⊙	⊙	⊙
<b>Locking rail with Adjustment option +/- 2.5 mm</b>	⊙	⊙	⊙
<b>Individual striker plates with Adjustment option +/- 2.5 mm</b>	⊙	⊙	⊙
<b>Secondary sash lock bolt for double sash entrance doors</b>	⊙	⊙	⊙
<b>Quality assurance</b>	DIN, RAL, SKG	DIN, RAL, SKG	DIN, RAL, SKG

### Options for greater room comfort

<b>Achievable resistance class in accordance with EN 1627-1630</b>	up to RC3	up to RC3	up to RC3
<b>Main lock: safety class in accordance with DIN 18251</b>	3	—	—
<b>Soft lock latch</b>	⊙	⊙	⊙
<b>Safety lock</b>	⊙	⊙	⊙
<b>Daytime release</b>	—	⊙	⊙
<b>Snib latch due to additional component</b>	—	⊙	—
<b>Day latch</b>	⊙	⊙	⊙
<b>Access control systems</b>	—	With A-opener	With A-opener
<b>Bolt switch contact control system</b>	⊙	⊙	⊙
<b>Concealed axxent door hinge</b>	⊙	⊙	⊙

## AS 2600 GENIUS

Electromechanical lock  
with round bolt - hook bolt  
combination

up to 3,000 mm

- 
- 
- 
- 

DIN, RAL, SKG

up to RC3

3

- 
- 

electronically controlled

- 
- 
- 
- 
- 



## AS 2750

With triple self-closing function  
via the main lock and auxiliary  
lock latches.



## AS 3500

Automatic locking via two hook  
bolts. With contactless magnetic  
triggers and flush appearance.



## AS 3600

Four-fold automatic locking via  
the falling bolts and hook bolts in  
the auxiliary gear box. Triggered  
mechanically via the falling bolts.



## AS 2600 GENIUS

Fully motorised locking and release  
of a main lock and auxiliary lock  
elements. With powerful gear  
motor and integrated control unit  
for maximum functionality.

# Solutions for escape doors and emergency exit doors

## Reliable single or double-sash escape doors, smoke and fire protection.

All multi-point locks and special locks from the comprehensive KfV panic range provide stringently tested and flexible solutions, which are distinguished by maximum functional security and intuitive operation. As every second counts, not just in an emergency, but also during fabrication, the multi-point locks for all escape door functions are based on the same main lock families and on auxiliary lock cases with identical dimensions. The DIN direction can be simply adjusted via the latch. Direction of escape can be set on the main lock for locking functions B and D.

### Planning and production

	EP 960	GEP EP 960
<b>Lock type</b>	Panic locking part in accordance with EN 179 and EN 1125 with round bolt - hook bolt combination	Electromechanical locking part in accordance with EN 179 and EN 1125 with round bolt - hook bolt combination
<b>Door height can be extended</b>	up to 2,400 mm	up to 2,400 mm
<b>Latch changeover (DIN RH/LH adjustable)</b>	⊙	⊙
<b>Locking rail with Adjustment option +/- 2.5 mm</b>	⊙	⊙
<b>Individual striker plates with Adjustment option +/- 2.5 mm</b>	⊙	⊙
<b>Secondary sash lock bolt for double sash entrance doors</b>	⊙	⊙
<b>Quality assurance</b>	DIN, RAL, CE, SKG	DIN, RAL, CE, SKG

### Options for greater room comfort

<b>Achievable resistance class in accordance with EN 1627-1630</b>	up to RC2	up to RC3
<b>Main lock: safety class in accordance with DIN 18251</b>	3	3
<b>Soft lock latch</b>	optional	optional
<b>Snib latch due to additional component</b>	—	⊙
<b>Access control systems</b>	—	⊙
<b>Bolt switch contact control system</b>	⊙	⊙
<b>Concealed axxent door hinge</b>	⊙	⊙

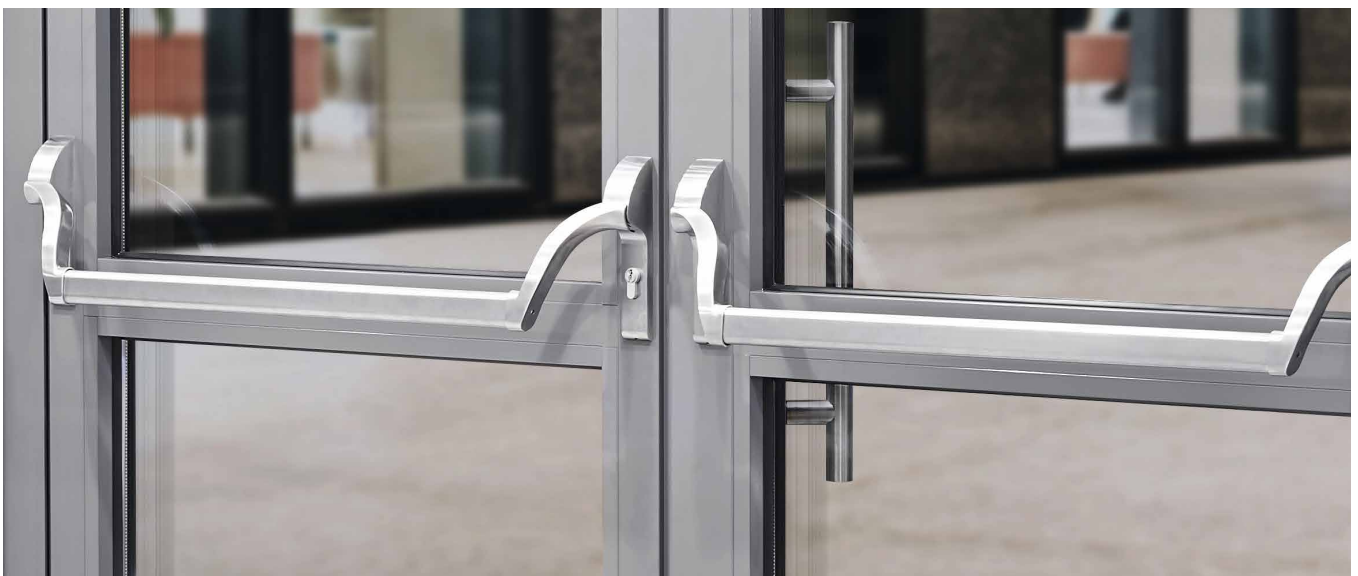
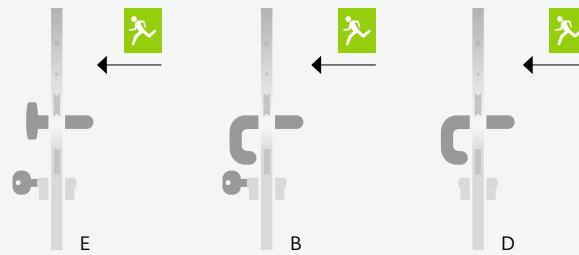


### Benefits

- Modular structure with uniform routing templates and screw-on positions
- Simplest assembly due to omission of threaded rods
- DIN direction and escape sides can be individually adjusted
- Many backsets and PZ dimensions available
- When the inactive sash is opened, the main sash also automatically unlocks, freeing the entire escape route
- KfV GENIUS PANIC GEP: automatic locking and release for the locking functions B and E possible

### Locking functions B, D and E

Locks and multi-point locks for escape doors can be opened in the direction of escape without a key at any time, even when they are locked. After using the escape function and closing the door, access against the direction of escape is either blocked again or it is not possible to go back into the building.



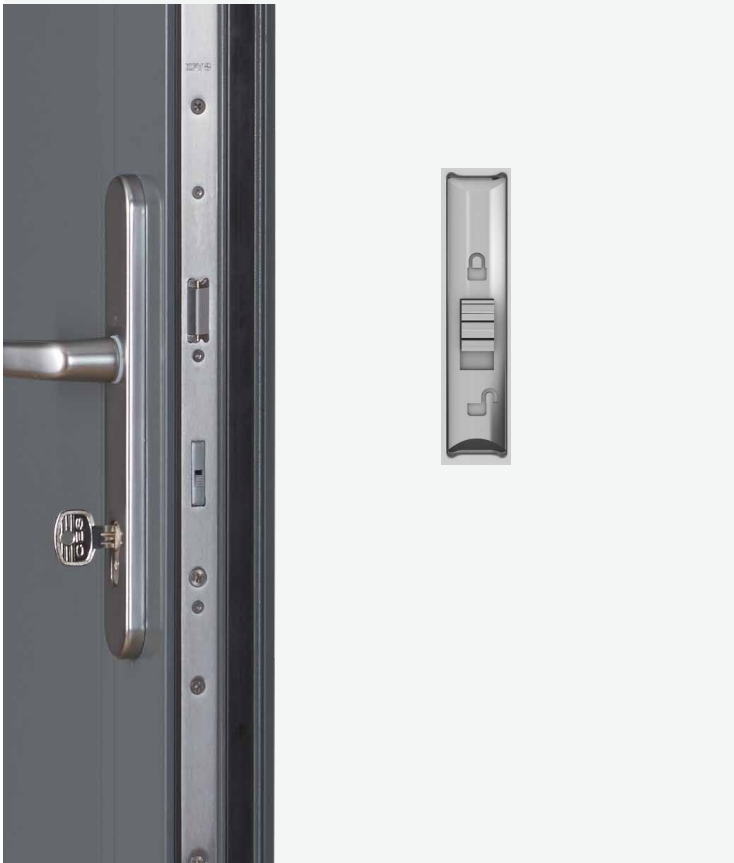
## Accessories

For individual security and comfort requirements.

### Daytime release

Leave the house without a key: temporary deactivation of the automatic function.

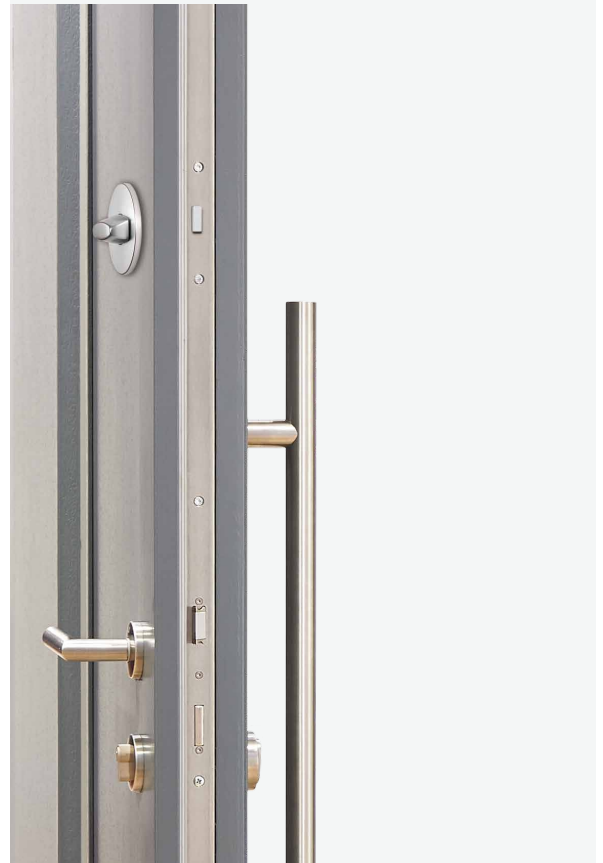
With the daytime release, the automatic function can be temporarily deactivated via a small blocking lever. In combination with the KfV day latch or the E-opener in the frame part, you can leave the house temporarily without a key as it is easy to simply "push open" the door. With AS 3500, the daytime release can be easily retrofitted in profiles with a hardware groove without re-milling. With AS 3600, it is integrated in the main deadbolt: as a retrofit solution or preassembled in the factory.



### Safety lock

Additional protection when opening the door by a blocking clip integrated in the rebate.

The opening width of the door can be restricted to a secured gap at any time with the safety lock. The integrated safety lock can be easily activated with a thumb turn. Unlocking from the outside using the main lock is possible for authorised persons at any time.



**Bolt switch contact**

Integrate Vds-certified entrance doors in alarm systems.

With the bolt switch contact, entrance doors can be connected to an alarm or monitoring unit to control the opening or locked status of the door. The system is invisible from the outside, certified in accordance with Vds Class C and can be used for all KFV multi-point locks with hook bolts.

**Soft lock latch**

For whisper-quiet closing comfort without maintenance expenditure.

Manual closing comfort is not only a question of ease of operation, but also of acoustics. Due to its abrasion-resistant PVC coating, the soft lock latch reduces the closing noise to a quiet clicking. Any maintenance expenditure is omitted because it needn't be greased. The soft lock latch is already integrated as standard in many multi-point locks.



## Frame parts

Maximum solution in a modular system.

### Individual strike plates

The high-quality solution for all locking versions.

With these high-quality individual striker plates, you have a visually appealing and universally applicable solution for all locking types at hand with just one version, which can be optimally fabricated by means of numerous innovations. The pressure adjustment of the additional striker plates is, with its unique adjustment range of  $\pm 2.5$  mm for low installation depth, the best on the market and offers extremely high compression for protection against strong winds and driving rain. An appealing appearance and easy assembly are ensured by the profiled end caps and the deadbolt lining for the main striker plate, which completely conceals the punched hole and can be conveniently inserted from the front.

#### 1 Compression control

Optimum compression, best tolerance compensation.

#### 2 Deadbolt lining

Can be conveniently used from the front and is available in various installation depths.

#### 3 Profiled end cap

For correct positioning and an elegant appearance with various PVC profiles.





### Locking rail

More stability and security in a continuously elegant appearance.

This sturdy locking rail, which can be used for different locking part versions, increases the security and enables an uninterrupted frame part design. The assembly is improved as only one part is fixed. Moreover, you benefit from all advantages provided by the individual striker plates.



### Secondary sash lock bolt

More comfort and efficiency for high-quality inactive sashes.

KFV secondary sash lock bolts combine security and a clear design with efficient assembly and stock-holding. Comfort is also a top priority here. For example, the T-handle for the BS80 automatically protrudes at the push of a button, facilitating locking and unlocking. Fully flush when not in use, the system is also easy to clean.



## Access control systems

More control and comfort due to intelligent doors.

### Access control systems

Innovative ease of use with future-proof SI-BUS technology.

Our digital access control systems combine clever comfort functions with an elegant appearance and the easiest fabrication. Due to the SI-BUS interface, all three systems can communicate directly with the drive without an additional control unit. This digitalisation facilitates the integration in smart living concepts or for future system extensions. This leaves all options open. Further networking can either be corded via the SI BUS or cordless via WIFI. The complete SI-BUS is secured with a 128 Bit AES encryption.



#### Fingerprint scanner

Area sensor with touch ID: simply place your finger on the surface.



#### Keypad

Equipped with a single-use and holiday PIN function.



#### Transponder

Supports RFID cards.

### Benefits

- With WIFI and Bluetooth chip as standard
- Control via the SIEGENIA Comfort app is possible
- Online remote access, timer and user administration
- 128 Bit AES encryption and access log
- Administration of up to 200 users or 800 features
- One-time users and interval users
- Optionally usable keyless function
- Connection to existing third-party systems is possible



The colour-adjustable LED lighting enables individual tone-to-tone adaptation to the entrance door. The brightness can be controlled manually or automatically via the light sensor.



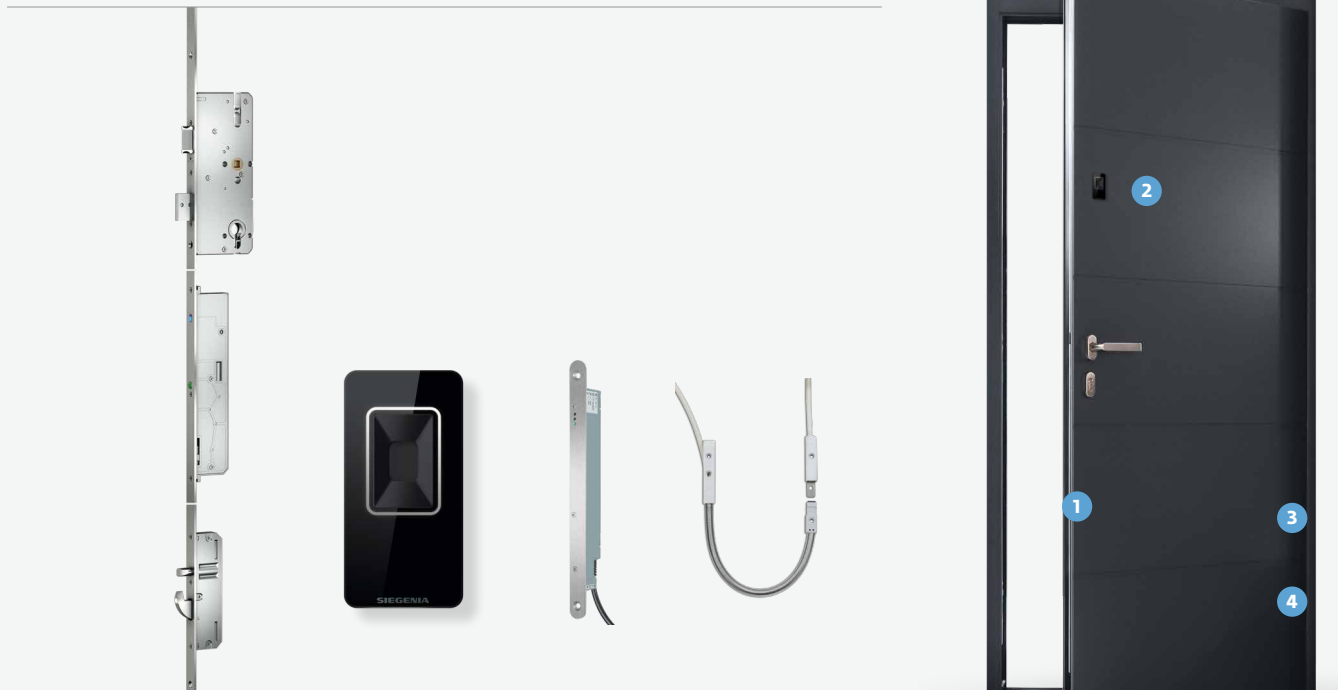
# Access control systems and motor function

Clever Plug & Play solutions for easy ordering and quick commissioning.

## Plug & Play solutions

Simply the most efficient solution for entrance doors with modern electromechanical function and access control.

Due to our predefined and preassembled plug & play sets, you can order all required components from the motor to the cable transfer in one carefree package and you will no longer need an electrician for the installation. The clip-in plug connections are protected against polarity reversal and the solutions are easily upgradeable by means of modular extension kits, for example, with an IO module.



**1 Multi-point lock with motor function**  
AS 2600 GENIUS 2.2  
AS 3500 or AS 3600  
with A-opener 2.2 motor

**2 Access control system**  
Fingerprint scanner  
keypad  
transponder

**3 Power supply**  
**4 Cable transfer**

### AS 2600 GENIUS 2.2

Quiet and rapid locking and release.

GENIUS makes the electromechanical locking and unlocking of all main and auxiliary lock elements particularly quick and quiet. To achieve this, the system is equipped with integrated control electronics and a powerful gear motor. GENIUS can be optimally combined with access control systems or further applications and offers you unlimited options in modern private and commercial property.



### A-opener 2.2 motor

The simple and flexible retrofit solution for AS 3500 and AS 3600.

With the A-opener, the AS 3500 and AS 3600 automatic multi-point locking systems can be retrofitted to an electromechanical version without any problems in order to be able to release the door automatically. The combination with separable power supplies such as tappet contacts is now also possible in the 2.2 version.



### Frame-integrated power supply and cable transfer

Concealed and integrated in the door.

The power supply can already be fully installed during production. The power supply is via 230-Volt connection. The cable transfer can be integrated concealed in the door rebate and reduces the installation and maintenance expenditure by means of simple plug connection. For safety reasons, it is only accessible when the door is open.





# Smart Home

The smart SIEGENIA world for more intelligent living.



Windows



Sliding doors



Entrance doors



Ventilators

## Versatile.

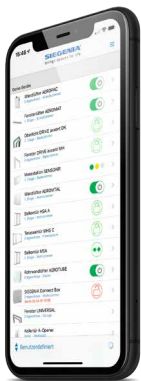
You have more to offer your customers with smart room comfort solutions from SIEGENIA. Because when our smart drive, ventilation and access control systems combine with the SIEGENIA Comfort app or even with each other, they then demonstrate what they are really made of. Thanks to control and monitoring via the app, many additional comfort and control functions, extending to user administration, are opened up - and consequently more options for safe and comfortable living.

## Innovative.

This is how you will control future target groups more conveniently: SIEGENIA smart devices can be flexibly connected to existing third-party systems. Thereby, our new IO modules also provide a solution with integrated WIFI chip to integrate third-party devices without their own WIFI function into the SIEGENIA Comfort app. Hence, completely new options emerge for system extension and connection to third-party systems. This also applies to the access to the smart devices. Because with the SIEGENIA Comfort app, this is even possible when you are out and about. You have an overview of everything all the time thanks to feedback on device and command status.

## Efficient.

In the smart SIEGENIA world, the assembly and commissioning as well as the device networking function as intuitively as the operation. As the WIFI module is already integrated, the smart devices can be so easily connected to the home WIFI network and the smartphone or tablet. It can also be operated as a stand-alone solution if you have not got a WIFI network yet. Due to efficient plug & play solutions and the SI-BUS interface, which is protected against polarity reversal, assembly is noticeably simplified and an electrician is no longer needed for many smart devices.



## The smart world of SIEGENIA.

Those who rely on room comfort are clever.  
Those who interlink this cleverly are smart.  
That is no problem with our smart devices and the SIEGENIA Comfort app. The new IO modules also allow connection with third-party systems.

# SIEGENIA Comfort app

## All functions in one single app.



### Windows

Automatic fresh air and safe opening and locking monitoring system.

Window ventilation via SIEGENIA drives can also take place in automatic operation independently of user: by the timer functions of the SIEGENIA Comfort app or by means of integration in third-party systems. The window can be securely locked again after ventilation and this can be monitored with the app.

For windows without drive, an opening and lock monitoring system can be accomplished via app, also via wireless window sensors, which can be easily retrofitted at any time.

### Entrance doors

Convenient operation and safe administration of the access rights.

Doors with electromechanical multi-point locks can also be operated via the app. When an access control system is integrated, this also applies to the convenient administration of individual access rights per app. Even the assignment of time-limited access rights is possible without any problems. For example, without having to hand over a key.



Tilt



Locking and release



Auto-lock



Ventilation timer



Monitoring



Locking and release



Keyless function



Administration of up to 200 users

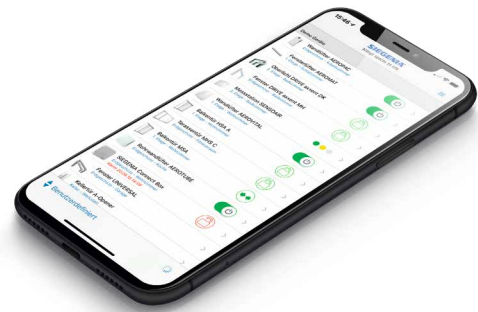


One-time users, interval users



Timer control





### Sliding doors

Convenient automation of sliding doors with sash weights of up to 400 kg.

With the right drive and the SIEGENIA Comfort app, heavyweight lift and slide doors can be automatically opened and closed or locked and released as if by magic. For this purpose, the app provides flexible timer functions and, like in all SIEGENIA smart devices, a clever installation assistant.

### Ventilators

Intelligent additional functions for the perfect indoor environment.

Smart SIEGENIA wall-mounted and facade ventilators provide an energy-efficient, calm and healthy indoor environment with ease. The app opens up a wide range of additional functions in order to automatically adapt the ventilation operation to the quality of the room air or the individual requirements.



↔ Starting and shutting

||< Night vent

↔ Intermediate stop

🕒 Ventilation timer

🔒 Locking and release



🔄 Automatic ventilation

⦿ Continuous regulation of the amount of air

🕒 Timer control

↔ Freely selectable mode of operation

🔔 Filter change indicator

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brings spaces to life

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