

Schüco Door Systems ADS

Aluminium Systems





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A door does not just provide access into a building. It has to meet higher standards of thermal insulation, security, functionality and design than any other building component.

The Schüco ADS Door System (aluminium door systems) were specifically developed to meet these requirements. They offer excellent thermal values and, due to a comprehensive range of systems, can be used for a variety of solutions in building security automation. Their timeless design combines effectively with the Schüco aluminium window system AWS. Schüco ADS Door Systems fit economically into almost any building design and can be used to create efficient and stylish architectural solutions.

Save, generate and network energy



Schüco ADS Door System

Primary resources are becoming scarcer, energy prices are rising and legal requirements regarding climate protection are stricter than ever. As a result, the focus is increasingly on the building envelope as an interface between inside and outside. As an important part of the building envelope, doors must be economically efficient and contribute to creating a positive energy balance in the building.

Schüco has embraced this challenge. The new Schüco ADS Door Systems feature improved profiles and enlarged insulation zones which offer excellent thermal insulation values - U_f -value of maximally $1.0 \text{ W}/(\text{m}^2\text{K})$ for the Schüco door ADS 112 IC. They therefore make an active contribution to saving energy and significantly improve the energy balance.

Numerous additional functions are available for the Schüco ADS Door System. The spectrum ranges from automation, through solar shading, to ventilation devices and inclusion in the building management system.

Getting to the heart of energy

- U_f -value of maximally $1.0 \text{ W}/(\text{m}^2\text{K})$ (ADS 112 IC)
- Enlarged insulation zone with foam-filled insulating bars
- Up to three sealing levels in the vent frame
- Automatic sealing in threshold area
- Energy savings (up to 70%)
- Classification in accordance with DIN EN ISO 10077-2



Impressive system performance
The Schüco door system ADS 90.SI offers peak performance for private and commercial buildings



Schüco ADS 75 SL.SI
Security, Automation and Design - Schüco ADS 75 SL.SI combines everything in one system



Energy and Security



Security is a basic need - for individuals as well as companies, public buildings, law courts and penal institutions. The options and requirements of building security systems are correspondingly extensive.

The components of the modular Schüco ADS Door System can be combined to create functional solutions to almost any security requirement. Schüco offers a wide range of possibilities, whether protection is required against break-ins up to WK3 (RC3), break-outs or for emergency exits with appropriate security measures access control systems.

Versatile and practical

Different components can be combined to make multi-purpose doors that satisfy safety needs or function as emergency exits and also provide access control for example. It is also possible to use digital door managers and connect into the networked building automation system. All Schüco solutions meet the highest security standards, as evidenced by the results of test carried out by independent institutes in accordance with current standards.

Schüco SafeMatic
Self-locking automatic lock



Digital door managers connect into
the networked building
automation system

Lock technology for Schüco doors



Schüco InterLock lock with
panic function

Against the background of ever increasing requirements for security and comfort, lock technology plays a key role in the door system.

There is a wide variety of demands being placed on the lock technology of a door. It must be designed to be secure, easy-to-use and durable in equal measure. Schüco satisfies these requirements with a wide variety of lock systems, which in turn meet the individual demands of customers. Door systems in burglar resistance class RC3 (WK3) can therefore be fitted with the claw bolt and pin lock the easy-to-use lock. For the latter, the profile cylinder is positioned above the handle, providing a more convenient operating height. The self-locking locks in the Schüco InterLock locks and Schüco SafeMatic series provide the highest levels of security in everyday use for residential and commercial doors.

Ease of use and security can also be increased by using electric locks, electric strikes, access control systems (Schüco Door Control System) and electronic lock monitoring, and can therefore be tailored to individual requirements.

The lock components therefore blend in seamlessly with the stylish design of the Schüco doors.

Energy through automation



Schüco aims to integrate the control of doors and other facade units together with thermal insulations and the generation and distribution of energy into one complete system, in order to optimise the energy balance of the building. The systems can be controlled easily and comfortably via mobile devices such as smart-phones or tablet computers. In this way Schüco combines automation with comfort, ease of operation, security and timeless, stylish design.

In many building, it is essential to be able to control exactly who has access to which areas and at what times. Schüco offers networked system solutions for access control, using biometric technology, such as fingerprint readers or transponders, keypads and standard card readers.

Schüco Fingerprint-System
Highest possible level of protection



Convenient opening with the Schüco
keyless entry system



Clear and simple: Controlling via iPad

Schüco integrated side-hung door drive (ID)



Schüco Integrated Side-Hung Door Drive

The comprehensive range of Schüco integrated side-hung door drives stands for security and comfort, and offers the perfect drive for every application - even for heavy door leaves, be it in private homes or commercial projects.

With the Schüco ID 80, ID 120 and ID 160 side-hung doors drives, which are integrated in the leaf frame profile, Schüco is offering a system innovation that has been fully tested in accordance with DIN 18650 and EN 16005 for automated single and double leaf door systems with leaf weights of up to 160kg. The almost silent operation of the drives makes them ideally suited for use in private homes, as well as in large commercial and public building projects. Schüco side-hung door drives ensures safe and comfortable passage through a door at all times. They are used wherever it is too awkward or difficult to operate the door manually. In easy-access entrances, automatically-operated doors make life easier for people in need of assistance.

Optimum security and functionality - quality standard which Schüco meets in full with its service concept for automated side-hung door systems.



Energy and Design

Practical functionalities can only be an effective architectural feature if they are attractively designed. Schüco ADS Door Systems offer a well-balanced design in which form, function and surface finish are in perfect harmony. A high degree of functionality and a choice of modules distinguish the Schüco Door Control System (DCS). The door management system is unique due to its diverse application options, access control, door communication and emergency exit control combined with the uniform, timeless design.

The flush-fitted installation of the modules into the door profile and the high-quality surface made of black glass give the system a refined, opulent character. Further installation options include surface-mounting or mounting on a panel in the wall. Clip technology allows smooth and time-saving installation of all components. Coded and prepared cables simplify the electrical installation. Uniform module dimensions and variable lengths for the infill units created the greatest possible design freedom. The system is thereby setting new standard in door management and as a result it has won the iF product design award and the reddot design award.

Modular system with a sophisticated design



Various solutions



Highly functional and visually attractive:
Schüco DCS door communication with
code keypad, fingerprint reader, call
button and motion detector

The technology of the modular Schüco DCS is ideally suited to all units of the building envelope. It is characterised by the flexibly arranged modules, a high degree of design freedom in installation and a choice of colours. Along side black and white, all RAL colours are available on request for the decorative units.

In addition to profile integration, wall and panel installation are further options.

- Modular door management system
- Profile-integrated components
- One look for door communication, emergency exit control and access control
- Stylish glass surfaces
- Individual design options
- Comprehensive enhancement modules with numerous functions as well as two versions of intercom stations
- Connections to IP and telephone systems possible



Schüco DCS: also possible as wall and
panel installation

Schüco ADS with optimum thermal insulation



The Schüco ADS Door System is the first choice for front and side entrance doors and boasts outstanding insulation value (U_f -value maximally $1.0 \text{ W}/(\text{m}^2\text{K})$). Available in basic depths from 50mm to 112mm, leaf heights of up to 150kg are possible. With a wide range of locks, a security level of up to security class RC3 (WK3) and the option of connection to the building management system, the ADS Door System fulfils virtually all requirements. The variety of design options with high-quality surface finishes coordinates perfectly with the Schüco AWS window system. With more leaf contours available, such as Soft Line (SL) with rounded profile, the ADS Door System offers a broad product range for designing modern building envelopes.

- Optimised for front and side entrance doors
- Designed for standard loading
- U_f -value up to $1.4 \text{ W}/(\text{m}^2\text{K})$ (ADS 9-.SI), U_f -value maximally $1.0 \text{ W}/(\text{m}^2\text{K})$ (ADS 112 IC)
- Leaf height up to 2500mm
- Max. leaf weight: 150kg
- Tested with up to 500,000 test cycles in accordance with DIN EN 12400
- Mechanical requirements for door hinges DIN EN 1935 up to class 14
- Basic depths: 50, 60, 65, 70, 75, 90, 112mm
- Barrel hinge and surface mounted hinge, adjustable in 3 dimensions
- Complete locking system through to automatic multipoint locking (SafeMatic)
- Security class up to RC2 (WK3)
- Emergency fittings available
- Matches the Schüco AWS window system

Schüco Door Hinges



180° concealed door hinge

The fully concealed hinges from Schüco achieve the perfect synthesis of good design, security and durability.

The central architectural idea of "Reduction to the essentials" influences the concealed, profile-integrated door hinges, which are available in different designs. Thanks to their intelligent design, concealed hinges satisfy high architectural demands and provide complete ease of access. They also offer effective protection against dirt and weathering. The concealed door hinge 180° is stressable up to a leaf weight of 200kg, the 100° concealed door hinge up to 150kg.



100° concealed door hinge

Schüco barrel and surface-mounted door hinges



Schüco barrel hinge

Schüco barrel hinge

The barrel hinge from Schüco offers optimum solutions for when maximum load bearing capacity is to be combined with exacting demands for an elegant appearance.

The barrel hinges from Schüco achieve the highest possible load-bearing performance with a maximum load transfer of up to 200kg and resistance to repeated opening and closing tested in up to 1 million cycles. The hinge also features optimised adjustment without having to remove the leaf. The resulting high-performance door hinge is perfect for use in both entrance and commercial doors, where cost-effectiveness, durability and ambitious design all come together.



Schüco surface-mounted hinge

Schüco surface-mounted door hinge

The tried-and-tested Schüco surface-mounted hinges are not only easy to install using anchor bolts, they also allow 3-dimensional adjustment without having to remove the door leaf.

In addition to its durability, the high quality design transforms the Schüco surface-mounted hinge into a visually appealing hinge solution.

- Visually appealing, durable hinge
- Continuous, solid, stainless steel hinge pin
- 2-part or 3-part design available
- Loading up to 200kg leaf weight
- Direct fixing using anchor bolts
- Enhanced adjustment and fixing options
- Maintenance free, no oiling or greasing

Schüco Aluminium Door Systems ADS



The Schüco ADS Door Systems combine excellent thermal insulation values with numerous functionalities for building security and automation as well as an attractive, timeless design. The variety of system combinations and design options allow the developer maximum design freedom.

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Based in Bielefeld, the Schüco Group develops and sells system solutions for windows, doors and façades. With 6330 employees worldwide, the company strives to be the industry leader in terms of technology and service both now and in the future. In addition to innovative products for residential and commercial buildings, the building envelope specialist offers consultation and digital solutions for all phases of a building project – from the initial idea through to design, fabrication and installation. Schüco works with 10,000 fabricators and 30,000 architectural practices, as well as construction professionals who commission buildings around the world. Founded in 1951, the company is now active in more than 80 countries and achieved a turnover of 1.995 billion euros in 2021. For more information, visit www.schueco.com

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Overview

| | Schüco ADS 112 IC | Schüco ADS 90.SI | Schüco ADS 90.PL.SI | Schüco ADS 75.SI | Schüco ADS 75.HD.HI | Schüco ADS 65 | Schüco ADS 65.HD | Schüco ADS 60.NI | Schüco ADS 60 |
|------------------------------------------------------------------|-------------------|------------------|---------------------|------------------|---------------------|---------------|------------------|------------------|---------------|
| Energy | | | | | | | | | |
| Thermally insulated | | | | | ■ | ■ | ■ | | ■ |
| High Thermally insulated | ■ | ■ | ■ | ■ | ■ | | | | |
| U _f -values in W/(m ² K) from ¹ | 1.0 | 1.4 | 1.6 | 2.0 | 1.3 | 2.2 | 2.9 | - | 2.6 |
| Automatic door seal | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Design | | | | | | | | | |
| Basic depth in mm | 112 | 90 | 90 | 75 | 75 | 65 | 65 | 60 | 60 |
| Leaf Sizes | | | | | | | | | |
| Width in mm | 1400 | 1400 | 1400 | 1250 | 1250 | 1250 | 1400 | 1250 | 1100 |
| Height in mm | 2500 | 2500 | 2500 | 2500 | 3000 | 2500 | 3000 | 2500 | 2500 |
| Leaf weight in kg | | | | | | | | | |
| Barrel hinge | 160 | 160 | 160 | 150 | 200 | 150 | 200 | 150 | 120 |
| Surface-mounted door hinge | 160 | 160 | 160 | 150 | 200 | 150 | 200 | 150 | 150 |
| Design types | | | | | | | | | |
| RL (Residential Line) | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| SL (Soft Line) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Continuous leaf/sill | | C/L | C/L | C/L | C/L | C/L | C/L | C/L | C |
| Opening types | | | | | | | | | |
| Inward opening | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Outward opening | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Flush-fitted | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Face-fitted | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Hinges | | | | | | | | | |
| Concealed hinge 100° /80° | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Barrel Hinge | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Surface-mounted door hinge | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

¹ Face widths 147mm

Overview

| | Schüco ADS 112 IC | Schüco ADS 90.SI | Schüco ADS 90.PL.SI | Schüco ADS 75.SI | Schüco ADS 75.HD.HI | Schüco ADS 65 | Schüco ADS 65.HD | Schüco ADS 60.NI | Schüco ADS 60 |
|---------------------------------------------|-------------------|------------------|---------------------|------------------|---------------------|---------------|------------------|------------------|----------------|
| Rolling options | | | | | | | | | |
| Pre-rolled | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ ² |
| Rolled together by customer | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Pre-rolled by Schüco | ■ | ■ | ■ | ■ | ■ | | ■ | | |
| Leaf-enclosing infill | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Dual colour | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Security | | | | | | | | | |
| Burglar Resistance | | | | | | | | | |
| WK2 (RC2) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Wk3 (RC3) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Emergency exit switch | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Panic fitting DIN EN 1125/179 | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ |
| Hinges protected against vandalism | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Automation | | | | | | | | | |
| Integration with building management system | | ■ | | ■ | ■ | ■ | ■ | ■ | |
| Door manager | | ■ | | ■ | ■ | ■ | ■ | ■ | |
| Monitoring /sensors | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ |
| Access control | | | | | | | | | |
| Card reader | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Fingerprint | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Radio control | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Keypad | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Easy access | | | | | | | | | |
| Easy access threshold | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Top door closer | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Keyless entry | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Side-hung door motor | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

² Selected profiles



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