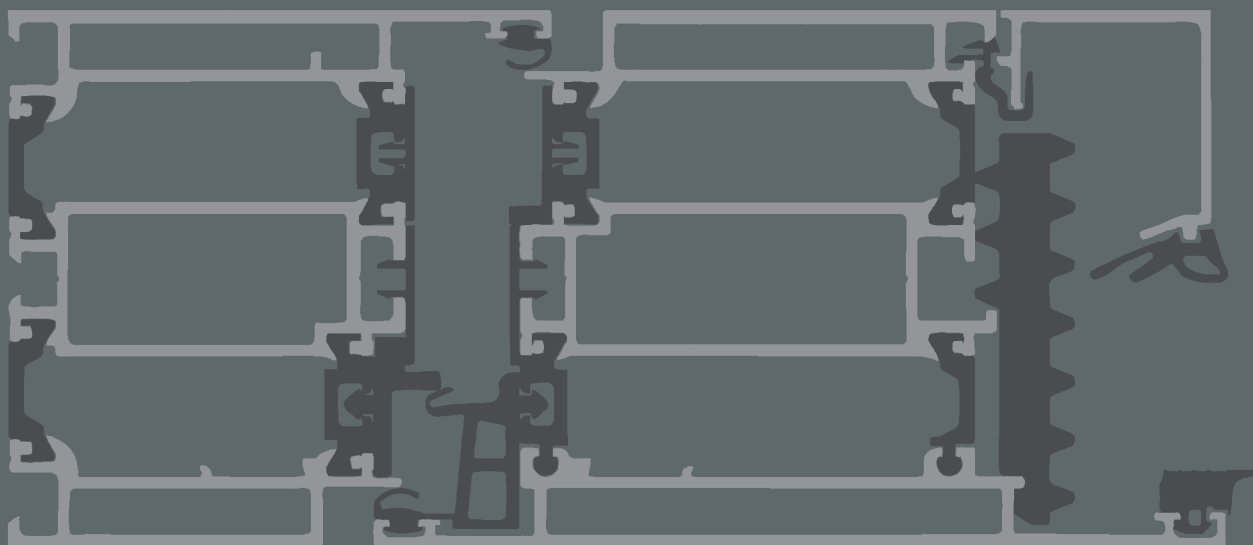


Schüco Door Platform ADS SimplySmart

Designed for excellence



Contents

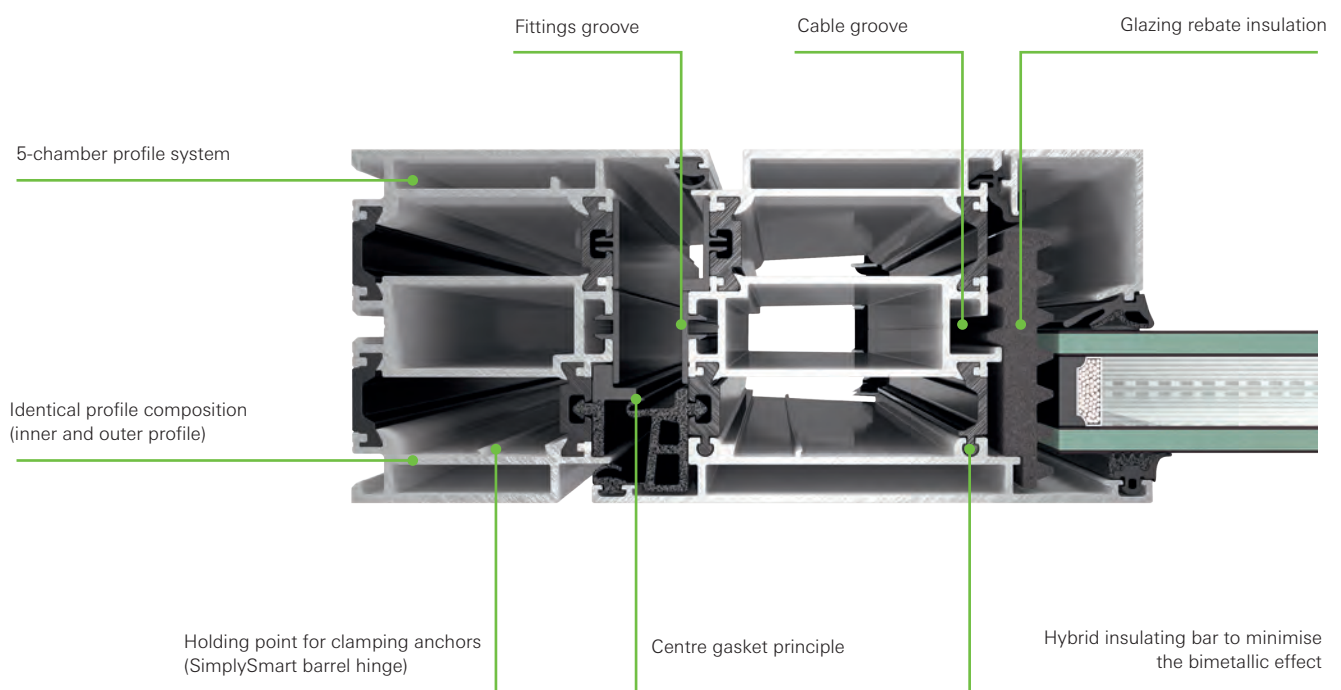
03	Schüco ADS SimplySmart – designed for excellence
06	System-based sophisticated design
06	Maximum system stability
10	Flexible solutions for optimum energy efficiency
10	Fewer system variants, maximum flexibility
12	Efficient fabrication and installation
13	ADS 75 SimplySmart: outstanding system properties
16	ADS 90/90.SI SimplySmart: excellent thermal insulation
16	Passive house standard without additional fabrication requirements
17	Unique barrel hinge for every application
18	Schüco ADS SimplySmart – Web special/Schüco entrance door configurator

Schüco ADS SimplySmart – designed for excellence

The continuous development of innovative product and system features by Schüco underlines its claim to be a technological leader – including the introduction of groundbreaking industry standards. In the process, top priority is given to ensuring maximum design freedom for the architect as well as simplification, flexibility and cost-effectiveness for the fabricator. Here, Schüco is ushering in a new era for aluminium door systems with the newly developed, innovative Schüco ADS SimplySmart system platform.

Schüco ADS SimplySmart is the result of the peerless engineering expertise of Schüco. A clear product portfolio has opened up a new dimension of simplified system delimitation. In particular, this is based on the 5-chamber aluminium profile construction, which is a new symmetrical construction principle for all basic depths; the new system feature of the hybrid insulating bar, for which a patent is pending; and a new, innovative centre gasket concept.

The benefits are revolutionary. With simplified planning, fabrication and installation, door solutions which offer significantly greater stability, weathertightness and durability can be created for all basic depths – even in large-format and passive house designs. Schüco ADS SimplySmart also impresses in terms of design with sophisticated detailed solutions. With regard to appearance, the new door series can be combined seamlessly with all Schüco façade and window systems.



ADS 75 SimplySmart

All of this provides the ideal preconditions for implementing the most varied of requirements for commercial and residential projects to the high Schüco quality standard using the new, universal Schüco ADS SimplySmart door platform.





System-based sophisticated design

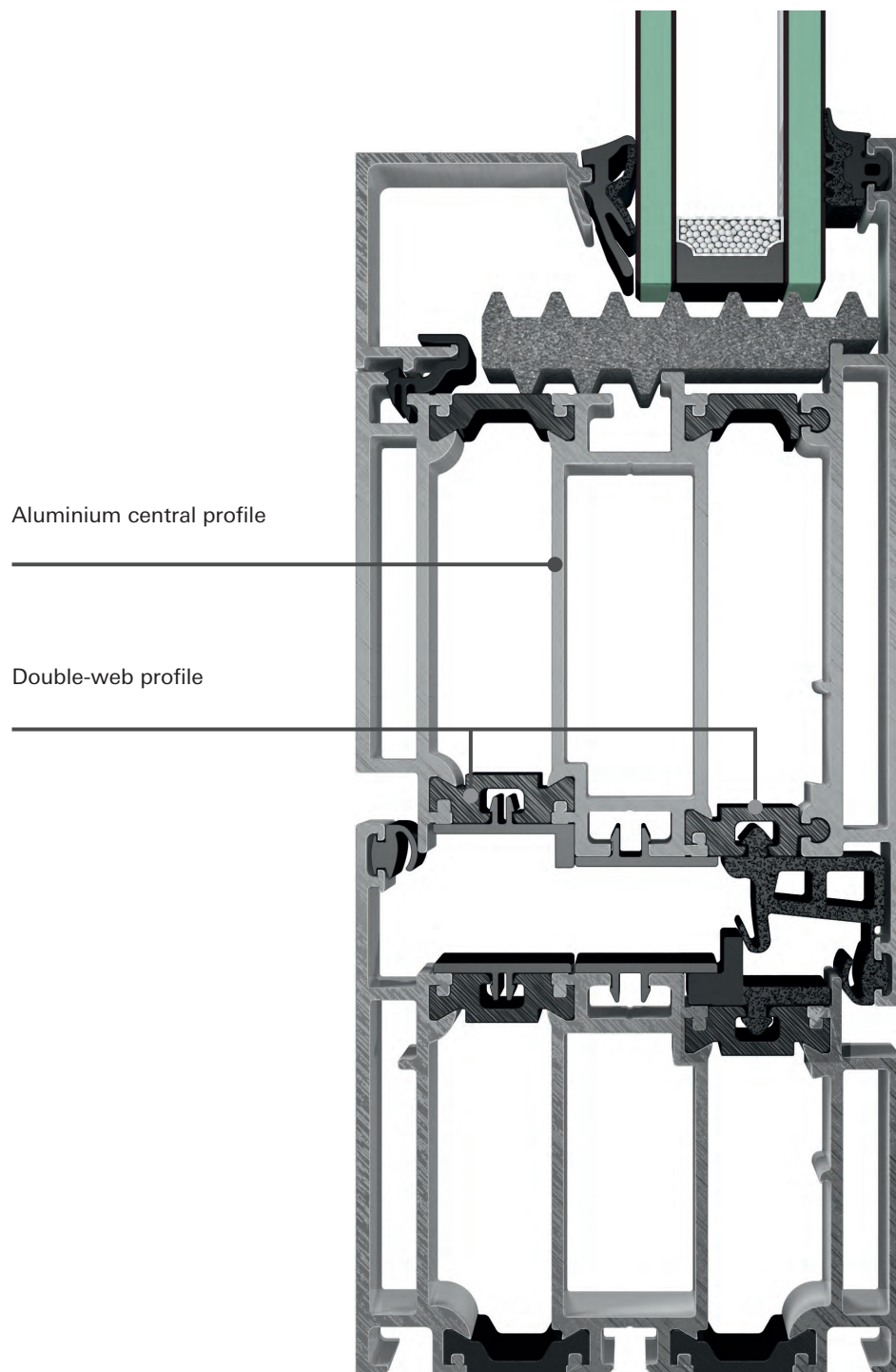
In both residential and commercial construction, developers and clients are focused on design-orientated architectural solutions with high functional requirements. Demands that can be fulfilled with the universal Schüco ADS SimplySmart door platform and its virtually unlimited design options – including large leaf geometries. Automated comfort and security components such as the Schüco Door Control System (DCS) allow visually seamless integration in the door constructions.

Schüco ADS SimplySmart offers system-based, detailed design solutions that make stylish statements – right through to easy-access design options with the highest degree of comfort for all requirements in the public, private and commercial sectors. Infills that are leaf-enclosing on one or both sides ensure a homogeneous appearance. Cover strips for fittings and insulating bar grooves permit a continuously black interior view and thus fulfil the most demanding of design requirements.

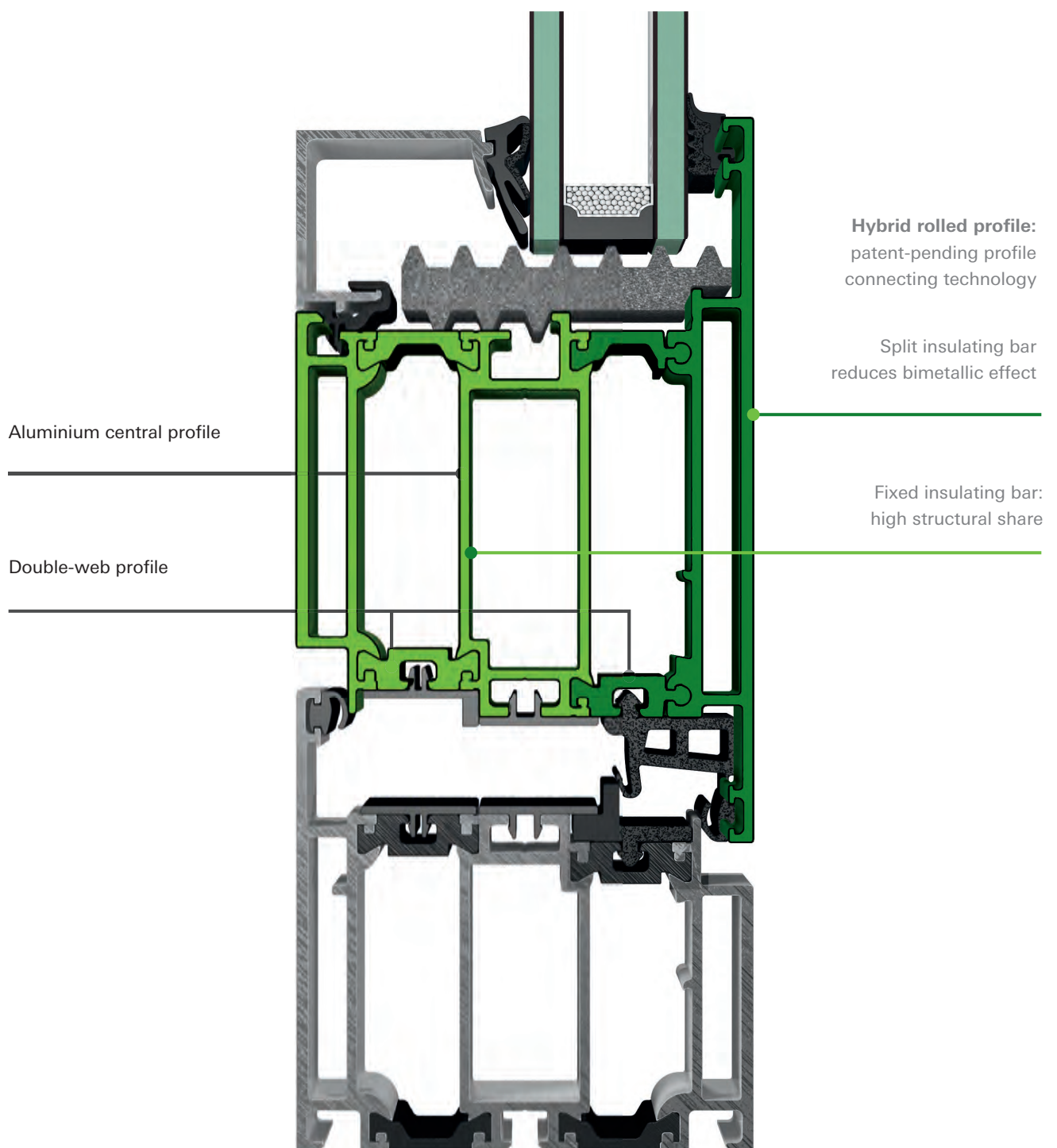
Maximum system stability

Schüco ADS SimplySmart is setting new standards with a world-first industry innovation. This door range is based on a specially developed 5-chamber aluminium profile with a triple instead of a double-skin construction. The benefits include the additional aluminium central profile which, together with a double-web profile, significantly increases the stability of the door construction. In addition, the newly developed, patent-pending split hybrid insulating bar considerably reduces the bimetallic effect. A further advantage is that the triple-skin Schüco ADS SimplySmart profile construction allows highly thermally insulated, large-scale door solutions to be constructed without compromising on stability and durability. The distinction between HD (Heavy Duty) and non-HD doors that was required previously is no longer necessary with this universal system range.

ADS 75 SimplySmart



ADS 75 SimplySmart







Flexible solutions for optimum energy efficiency

Be it a newbuild or renovation project, customised door solutions with thermal insulation and weathertightness tailored to requirements are essential components for an energy-efficient building envelope. The new Schüco ADS SimplySmart system range offers the perfect door solutions for residential and commercial projects, fulfilling the most diverse of energy efficiency requirements based on system standards – including the stringent requirements of the passive house standard.

Double insulation level plus innovative centre gasket concept Based on the 5-chamber profile composition, the new Schüco ADS SimplySmart system range in selected core basic depths meets different energy efficiency requirements, with U_f values to 1.6 W/(m²K) for the 75 mm basic depth and U_f values to 1.3 W/(m²K)/1.0 W/(m²K) for the 90 mm basic depth. This is achieved by a double insulation level, a new centre gasket concept, prefabricated gasket corners and glazing rebate insulation. The result is optimised values for thermal insulation, air permeability and watertightness – with improved fabrication quality.

Fewer system variants, maximum flexibility

Simple and sophisticated. The new Schüco ADS SimplySmart door platform enables a significant reduction in basic depths and variants thanks to the groundbreaking system construction. The benefits include fast reconciliation of project requirements and system properties, and universal usability for all applications. The key to its success is the innovative, symmetrical profile construction for all basic depths with extensive use of identical parts. This simplifies fabrication considerably and ensures efficient inventory-holding due to the identical profile construction of the inner and outer profile, for example, which enables the use of the same corner cleats and gaskets. Another timesaving system development is the universal aluminium barrel hinge – suitable for inward, outward and DIN LH/RH-opening doors across all basic depths.

This simplification of the Schüco door systems allows product solutions of the highest quality with optimised fabrication, even as market requirements become increasingly complex.



Efficient fabrication and installation

Identical working steps and extensive use of the same parts ensure a reduction in the potential for error in the workshop and on the building site.

Two standard features of the triple-skin system profile are the fittings groove and the cable groove in the central profile chamber. The benefit lies in the efficient fabrication of hinges, lock technology and other components such as T-cleats for the installation of the continuous threshold. The innovative profile construction also allows, for example, the optimised integration of the door installation in a Schüco mullion/transom construction by conveniently inserting or slotting in the outer frame extension.

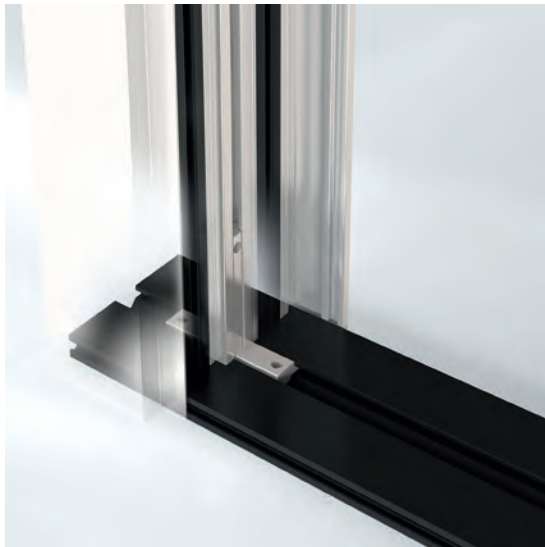
Sill design for all basic depths

The use of a continuous threshold increases stability and weathertightness in the sill area. The connection with the outer frame is made by means of a T-cleat via the fittings groove in the central profile. This replaces the time-consuming installation by means of screwing and drilling. The use of prefabricated gasket corners in the sill provides additional fabrication benefits. Glazing bridges with a new clip mechanism ensure that the door construction is delivered to the building site without the glazing blocks slipping, thereby removing the need for laborious bonding to secure them for transportation.





System fitting with
swivel-in sliding block



Schüco ADS 75 SimplySmart
with T-cleat in the central profile



Schüco Door ADS SimplySmart –
variable centre gasket principle

ADS 75 SimplySmart: outstanding system properties



Schüco Door ADS 75 SimplySmart
with integrated cable groove



The Schüco ADS 75 SimplySmart aluminium door system is suitable for both commercial and residential projects and is, in common with the entire system platform including side sections and toplights, compatible with the corresponding Schüco façades and Schüco windows.

The triple-skin profile construction yields a clear structural improvement and has both a fittings groove and a cable groove as standard in the additional central profile. A new, split hybrid insulating bar, for which a patent is pending, has also been created which minimises the bimetallic effect between the insulating bar and the outer profile. Together with the continuous centre gasket, which is part of the system standard, U_f values as low as $1.6 \text{ W/(m}^2\text{K)}$ are thus achieved and sealing properties optimised without using additional insulating foams.



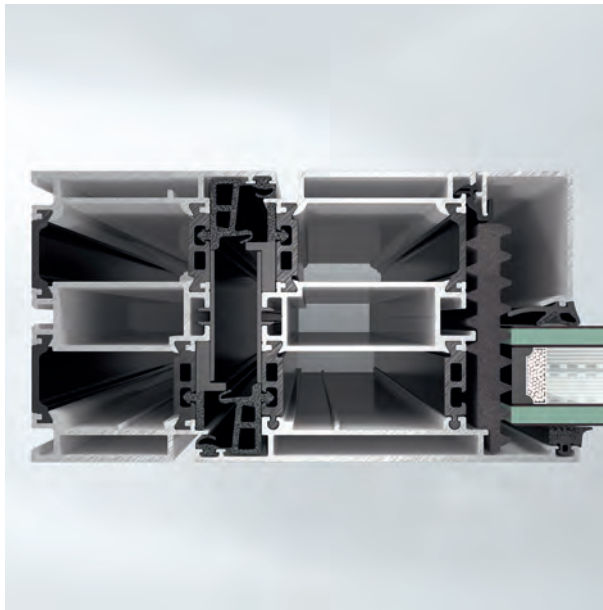
ADS 90/90.SI SimplySmart: excellent thermal insulation

From autumn 2015

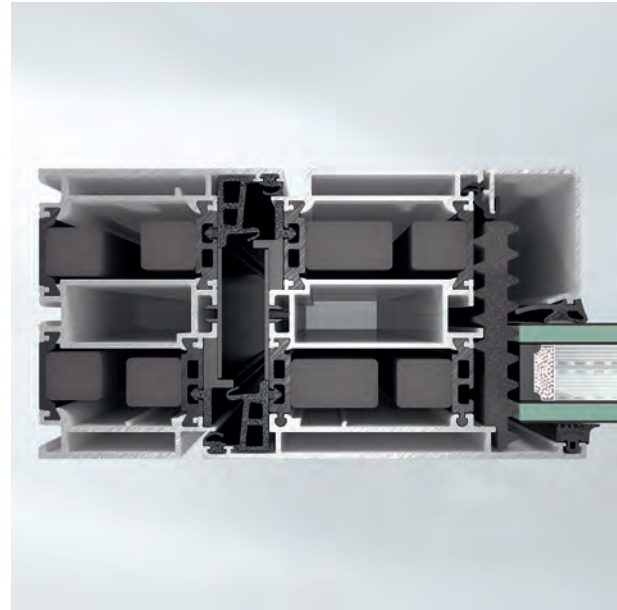
Schüco Door ADS 90 SimplySmart: the optimum solution for door constructions with the most demanding of requirements for thermal insulation and weathertightness combined with maximum stability. With a continuous double centre gasket and glazing rebate insulation fitted as standard, this door series achieves U_f values as low as $1.3 \text{ W/(m}^2\text{K)}$. Furthermore, it boasts outstanding system properties in terms of air- and watertightness as well as wind load. With its inner, outer and central profiles, the profile construction is identical to Schüco ADS 75 SimplySmart.

The Schüco ADS 90.SI SimplySmart door series fulfils the high requirements of the passive house standard with U_f values as low as $1.0 \text{ W/(m}^2\text{K)}$.

Passive house standard without additional fabrication requirements



Schüco Door ADS 90 SimplySmart



Schüco Door ADS 90.SI SimplySmart

Even the highest thermal insulation requirements are not a problem with Schüco ADS SimplySmart – by simply

using foam-filled insulating bars, ADS 90 SimplySmart becomes ADS 90.SI SimplySmart. With a U_f value of $1.0 \text{ W/(m}^2\text{K)}$, this door achieves passive house standard. By using additional insulation, the highly thermally insulated door can therefore be fabricated without the additional work required previously.

Unique barrel hinge for every application



Schüco ADS SimplySmart barrel hinge



One barrel hinge for all requirements

Systematic simplification was also the main idea in the development of the new Schüco SimplySmart aluminium barrel hinge. A hinge for all applications: the SimplySmart barrel hinges can be used for inward, outward and DIN LH/RH-opening doors across all basic depths. In addition, the slimline hinges impress with their time-saving installation by means of a clamping anchor. The use of the new clamping anchor technology substantially reduces processing operations such as machining and drilling. With a stability of up to 1 million cycles, the hinges are also ideally suited for heavily used door installations in commercial projects.

Further highlights of the new generation of hinges include its optimum water- and airtightness, achieved through its facility for adjustment in three dimensions without removing the leaf, as well as the option to rapidly replace the hinges at any time.

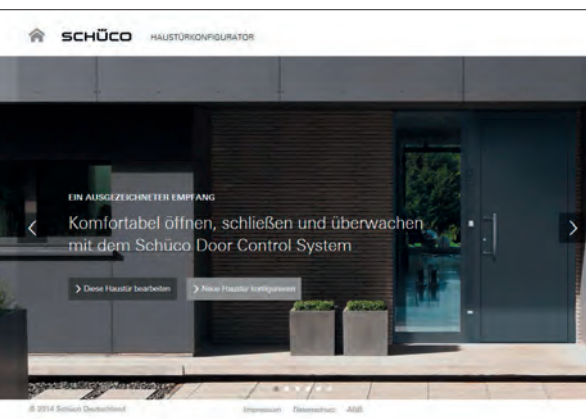
Schüco ADS SimplySmart – Webspecial



With its clear product portfolio, the innovative Schüco ADS SimplySmart door platform opens up a new dimension in simplified system delimitation – intended for the planning and fabrication of design-orientated door systems with first-class thermal insulation, sealing and structural properties. One new development is the 5-chamber aluminium profile construction with an identical construction principle for all basic depths, which makes for considerable simplification, flexibility and cost-effectiveness in the implementation of door systems whilst maximising the use of identical parts.

A Web special for Schüco partners provides further detailed information on Schüco ADS SimplySmart including an installation video as well as an animation about the use of identical parts and the Schüco SimplySmart barrel hinge at www.schueco.com/ads-simplysmart.

Schüco entrance door configurator



Visual advance planning and attractive sales tool – the newly overhauled Schüco entrance door configurator at www.schueco.de/wunschtueren. From its clearly visible position in the home owner area on the Schüco website, the online tool offers double added value. The client can select their entrance door from pre-configured door variants with the click of a mouse or plan it in detail themselves before saving it as a PDF file. This simplifies and advances the subsequent consultation and calculation of costs with the Schüco partner. And Schüco partners themselves can use the tool in personal consultations to visualise designs and present the various door components – including a view of the door installed in the home of the potential client by means of the photo overlay function. Please note: the Schüco door configurator is currently only available in Germany.

