

SCHÜCO

+ ADDED VALUE FOR YOUR SUCCESS.



PVC-U Systems

+
ADDED
DESIGN



+
ADDED
COMFORT



+
ADDED
SERVICE



+
ADDED
SECURITY



ADDED VALUE FOR YOUR SUCCESS



Dear Partners,

In the fiercely competitive international marketplace, innovations and premium quality are the answer to ever-changing requirements. Strategic partners who work faithfully together stand strong against the competition.

Schüco has been a leading systems provider for windows, doors and façades for over 67 years now, whilst enjoying more than 30 years of success in the PVC-U system business. As a Schüco partner, you are able to offer your customers added design, comfort, security and service from a single source. The comprehensive Schüco product range creates enormous added value under the umbrella of a strong brand.

Added awareness – benefit from the prominence of the Schüco brand and its positive image among clients and architects in Germany and worldwide.

Added competitive edge – choose innovative solutions and expertise in all materials for your commercial success. For example with Schüco LivingSlide, the new lift-and-slide door system, or the steel-free Schüco Living Alu Inside window system as a premium solution suitable for passive houses.

Added service – optimise your business process with the tailored range of services from Schüco. From sales to planning, fabrication and installation, all the way through after-sales support, we provide you with a unique range of services.

Partnership is one of the core company values at Schüco. At your side, you have a partner whose aim is to be successful with you.

Best wishes,

Andreas Engelhardt,
CEO and Managing Partner of
Schüco International KG

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ADDED COMFORT

In every building, the focus should always be on the people. This is why there is a demand for product solutions that are user friendly and offer **added comfort**.



Schüco LivingSlide

The new lift-and-slide door system in the Schüco Living range has impressive **added comfort**.

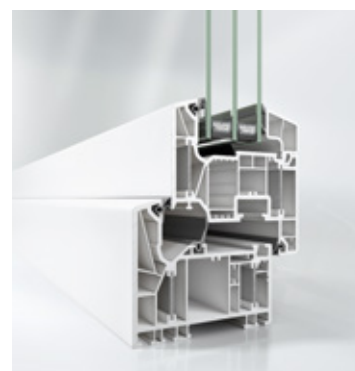
- The roller carriage support ensures easy operation – even with heavy vent weights.
- The easy-access threshold ensures a seamless transition between inside and outside.
- Exclusive, weld-on EPDM function gaskets keep the wet weather, cold and noise outside, giving the people inside an all-round sense of well-being.



Schüco Living Alu Inside

Added comfort due to maximum thermal insulation.

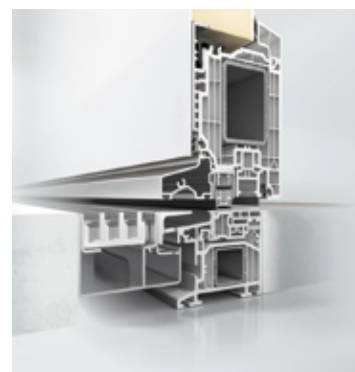
- The absence of steel and the ingenious design mean that the Schüco Living Alu Inside window system has no thermal bridging.
- The polished surface of the high-quality aluminium alloy on the inside reflects approx. 90 % of the thermal radiation.
- 3 drainage levels keep the wet weather, cold and noise outside throughout the lifetime of the window, giving an all-round sense of well-being.



Easy access 0 mm threshold

The solution offers users **added comfort** with an installation height of 0 mm.

- Level access for maximum ease of access.
- Specially developed wind-stops guarantee good functionality and durability as well as optimum weathertightness.
- An automatic threshold gasket made of high-quality silicone with a smooth release mechanism ensures optimum weathertightness in the horizontal plane.



ADDED DESIGN

Individuality is a major topic in modern architecture. This is why solutions that enable **added design** freedom are frequently needed.



Schüco Living Variant

The new window and door system offers **added design** with its outer frame contour variations.

- Two contours with 15° and 6° slopes give the units an angular look.
- Corner joints can be traditionally mitred, but also supplied with the appearance of a timber window.
- More than 200 design foils from the Schüco UnlimitedFinish range are available, as well as brilliant metallic colours from the Schüco AutomotiveFinish series.



Schüco TopAlu

3 new cover cap contours offer **added design** for Schüco Living PVC-U units.

- The Classic, Pure, Viva and Vision vent contours with their versatile language of form fulfill individual requirements in the best way possible.
- The coating of aluminium cover caps with almost any RAL or anodised colour provides maximum design freedom.
- Additional accenting of the units is possible through colour variations between the cover caps of the outer and vent frames.



Schüco safety barrier

For **added design** in the façade, different safety barriers are very often used for floor-to-ceiling window units.

- Transparent and therefore unobtrusive glass safety barriers allow an unobstructed view to the outside without intruding upon the visual appearance of the façade.
- Bar safety barriers are the right choice for adding an individual touch to the building. The flexible choice of distances between bars, as well as the possibility of using and combining stainless steel round tubes and bars with different diameters, opens up multiple design options.
- When used in conjunction with glass and bars, the new model is a particular highlight in the building envelope.



ADDED SECURITY

Security is a basic need of all clients and people who use the buildings. Schüco would therefore like to show how buildings offer **added security** by means of integrated fittings technology.





Schüco slide-and-ventilation fitting

The innovative fitting for sliding doors guarantees **added security** thanks to its intelligent ventilation option.

- Schüco slide-and-ventilation fitting enables living spaces to be ventilated via crack ventilation for units that are almost closed.
- During crack ventilation, the sliding fitting also provides burglar resistance up to resistance class 2 (RC2).
- The new Schüco ventilation sliding fitting is certified and approved by the SKG Institute.



Schüco SoundGuard

Added security for Schüco windows with the new decentralised alarm system.

- The modular alarm system, consisting of a window alarm and a glass breakage alarm, gives a reliable warning of unauthorised access to the living space.
- Schüco SoundGuard is easy to install and blends in perfectly with the appearance of the window.
- Schüco SoundGuard is a decentralised system with independent functions – can also be retro-fitted.



Schüco sliding side-hung fitting

The new sliding side-hung fitting from Schüco guarantees **added security** for this type of window system.

- Schüco sliding side-hung fitting allows for easy opening of the living space to the outside.
- With minimal effort, the vent units are pushed aside and turned out of the frame.
- The new fitting can be used for both inward-opening and outward-opening units in the Schüco Corona CT 70 series.



ADDED SERVICE

Schüco is distinguished by a unique range of services. In addition to delivering sophisticated PVC-U system technology, our focus is on providing **added service**.



Schüco automatic screwdriver FSA-100

The new machine technology extends the Schüco range of machines and means **added Service** for Schüco partners.

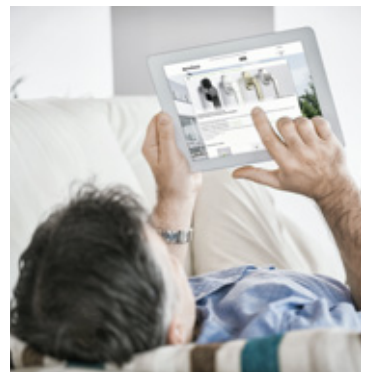
- In conjunction with the Schüco FAZ-100 vent fittings centre, the Schüco screwdriver FSA-100 allows fittings to be installed in less than two minutes.
- The 2-axis screwdriver is screwing together two sides at the same time. After the automated positioning and alignment of the window unit, the other sides can be screwed.
- The incredibly quick throughput times that result for fittings installation guarantee increased production capacity with reduced unit labour costs.



Schüco spare parts shop

The fast and easy ordering of original Schüco spare parts online offers **added Service**.

- There are 300 items in consumer-friendly packaging units available in the Schüco spare parts shop.
- In addition to a large number of fitting accessories, gaskets, pollen filters, filter cartridges and cleaning and care kits for aluminium and PVC-U elements are also available from the spare parts shop.
- Useful videos help the end user with the installation and use of the spare parts.





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PVC-U

Whether a commercial building or a residential project, newbuild or renovation – the individual character of the building is substantially shaped by its façade appearance.



Residential development, Willich, Germany

The façade or building envelope takes on the role of a functional layer between the external environment and the building interior. To a large extent, the nature, design and character of this functional layer influences the quality of the environment and the security for the users of the building. The wide range of Schüco PVC-U systems allows solutions that endow every construction with an unmistakable character in terms of both appearance and function – regardless of the type, size and purpose of the building. The following pages summarise the most important information.



PVC-U granules as raw material

Schüco develops innovative PVC-U systems which set new standards in terms of cost-effectiveness when it comes to care, maintenance and durability. They are based on the high-quality, environmentally friendly, stabilised PVC-U from which the Schüco PVC-U units are fabricated. Thanks to this material, Schüco PVC-U profiles are highly

resistant to light, weathering and impacts, and extremely resistant to deformation even at higher temperatures. The result is that the amount of maintenance required and therefore also the follow-up costs for servicing the Schüco PVC-U systems are reduced to a minimum. All Schüco PVC-U profiles are also fully recyclable.



Key benefits

- Excellent insulation properties
- Long service life without the need for repeated maintenance
- Excellent price/performance ratio
- Good sound reduction properties
- Resistant to weathering, acids, exhaust fumes and cleaning agents
- Easy to clean
- Can be designed with the widest variety of coatings on the inside and outside
- Precise malleability during fabrication, and aesthetic diversity
- Easy to weld and good corner stability
- Normal flammability in accordance with DIN 4102, class B2 and class E in accordance with EN 13501-1
- Good recycling properties, integrated in a resource recycling system

Unique EPDM gaskets

EPDM rubber is a gasket material in a class of its own, which is also found in modern PVC-U windows and doors.

Gasket materials made from EPDM rubber have been used successfully in practice for many years and have long been used in a wide range of areas of life, such as in medicine, the aerospace sector, the automotive industry etc. When constructing PVC-U windows, there are also high requirements in terms of weather-tightness, long-lasting functional performance and weather protection. For 50 years, EPDM rubber has been an outstanding material for this purpose. EPDM gaskets offer excellent recovery properties, which guarantee optimum weathertightness of the window and door units over many years and thereby prevent mould growth. This ensures a long working life and value retention for the window and building. At the same time, EPDM gaskets are especially easy to clean owing to their high resistance to chemical cleaning products. Time-consuming and expensive gasket replacement is eliminated completely. Schüco is the only systems provider to offer window and door profile systems with EPDM gaskets rolled in the factory. A focus is placed on "Made in Germany" here, as all the EPDM gaskets we use are produced by Semperit, whose production site is in Germany.

Working together closely with Semperit, we have now succeeded in further developing EPDM gasket technology and in bringing the first weld-on EPDM gasket for PVC-U profile systems onto the market. The material stands out here in particular because the gasket loses no elasticity in the crucial corner area and does not harden after the welding process. This soft, visually closed corner ensures a permanent sealing effect. Moreover, the fabrication of PVC-U profiles has been considerably simplified thanks to the simultaneous welding of the gaskets.

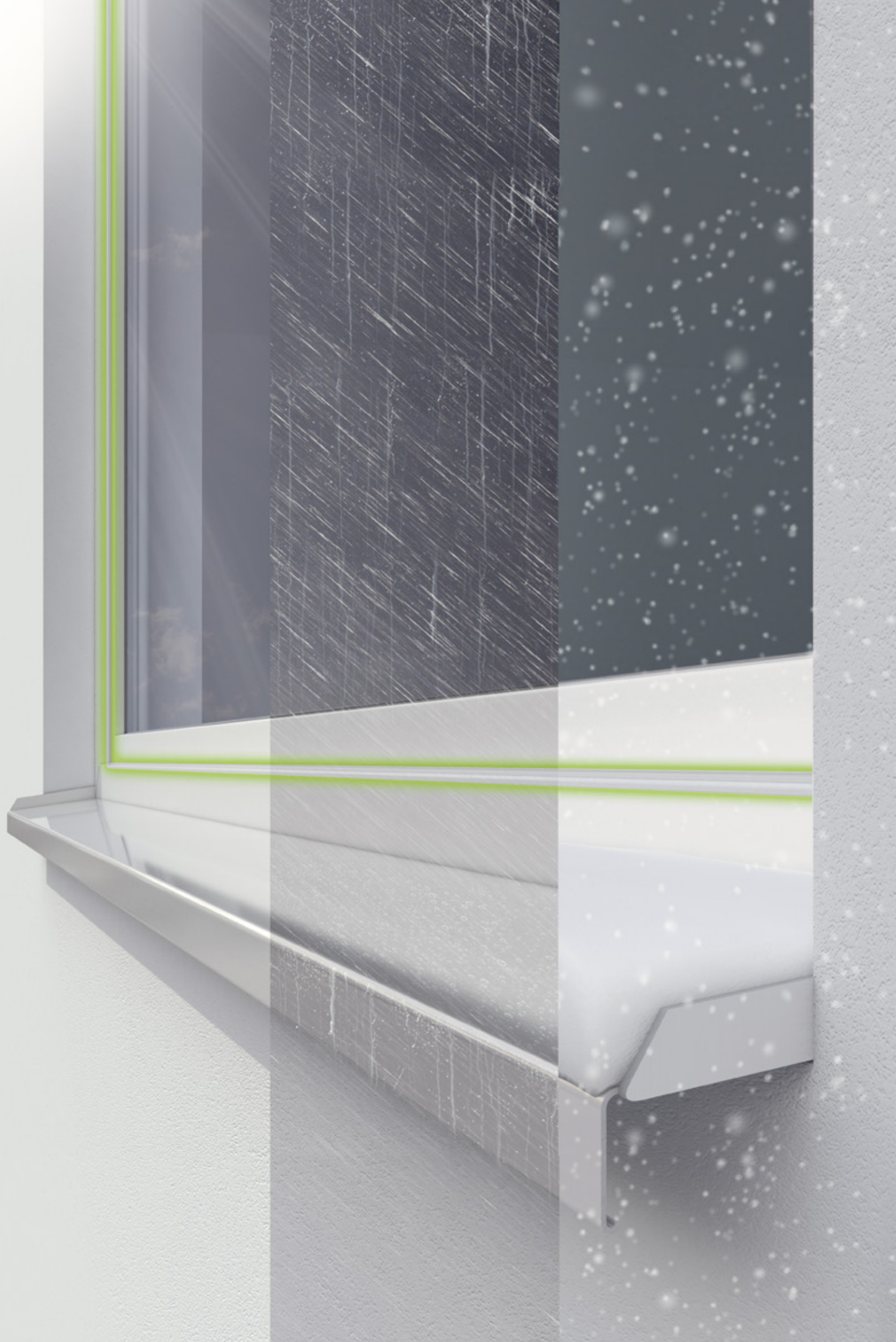
UV-resistant and stable in cold temperatures, the EPDM gaskets are suitable for all climate zones and building types, guaranteeing permanent elasticity across temperatures from -40 to +120°C.

This weld-on sealing technology is used in the Schüco LivIng, Schüco LivIng Alu Inside, Schüco LivIng Variant and Schüco LivIngSlide PVC-U systems.



Product highlights

- Unique and outstanding recovery properties
- Long-lasting functionality across a very wide temperature range
- Excellent thermal insulation and protection against the cold ensures energy savings
- Long-term weathering resistance, particularly in the crucial corner area
- Outstanding sound reduction
- Optimum weathertightness offers protection against draughts, cold, moisture and invasive smells
- Soft, elastic gaskets allow the windows and doors to be opened and closed easily



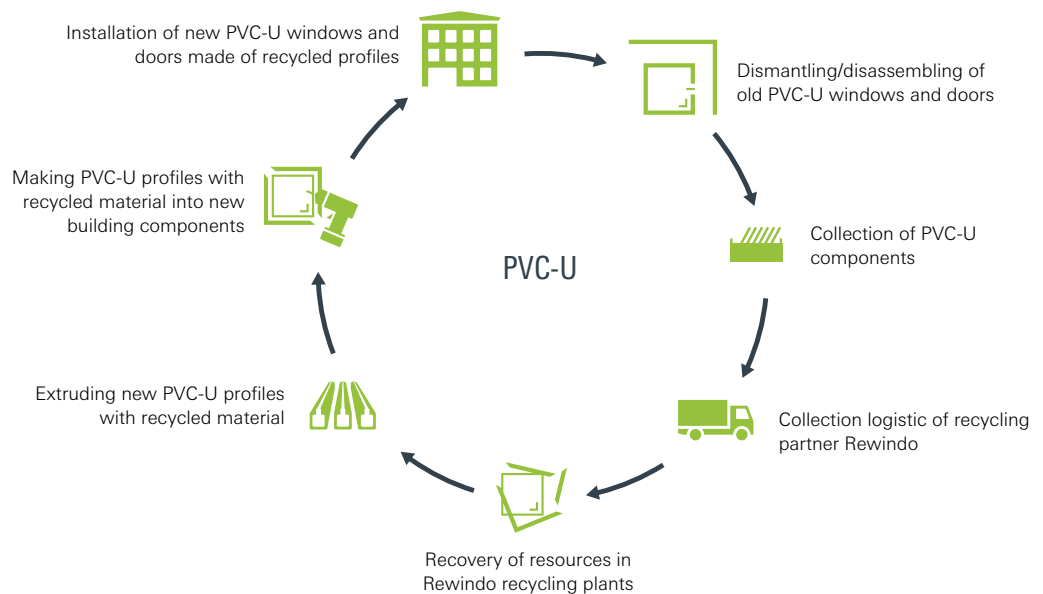
Sustainability – taking responsibility

The 360° sustainability approach of Schüco comprises the whole lifecycle of a product from the design and manufacture, installation and use, through to the possibility of dismantling the products and feeding them back into the closed recycling process.



Schüco creates technologies that focus on people and which are in harmony with nature. To do this, we support fabricators, distributors, architects and clients in all project phases – from the initial idea through to the dismantling of the building envelope. This includes the design using sustainable systems, environmental product declarations and recycling of the window and door units. Our PVC-U systems lay the foundations for sustainable

building, as they follow the principles of product development that is ecologically, economically and socio-culturally fit for the future. With regard to suitability for purpose, user comfort, energy efficiency, resource conservation, climate protection, durability and recyclability, our solutions offer maximum design freedom for the creation of sustainable buildings.





VinylPlus – the voluntary commitment

VinylPlus is a Europe-wide initiative of the PVC industry. This voluntary commitment aims to advance the sustainable production and application of PVC-U across the entire PVC value chain. The initiative is based on the success of its predecessor Vinyl 2010, all of whose aims have been met or even exceeded. VinylPlus, working with renowned Swedish sustainability institute The Natural Step, has set specific ambitious goals for 2020 pertaining to five challenges. Schüco sees the more efficient use of PVC and controlled cycles as an important basis for the future development of the PVC industry and is addressing these challenges.

Controlled material cycles

As an active member of Rewindo, Schüco supports the recycling process for PVC-U windows and doors. Rewindo is an association of leading German manufacturers of PVC-U profiles. The aim of Rewindo is to recycle dismantled PVC-U windows, doors and roller shutters. Through our commitment as a member, we strive to continually increase the proportion of green recycled products in our PVC-U profile systems.

Reduction of emissions

Durable organic substances cannot enrich themselves in nature and emissions are to be demonstrably reduced. Schüco procures its basic raw materials from producers who are certified in accordance with the ECVI Industry Charter and who produce sustainably and transport raw materials safely.

Sustainable use of additives

The PVC-U used by Schüco is environmentally friendly calcium/zinc-stabilised. Likewise, gaskets are used without critical emollients.

Sustainable use of energy and raw materials

Schüco develops modern, high-quality PVC-U systems used by partners to create sustainable projects that retain their value. Window and door systems from Schüco are energy-efficient and resource-friendly and therefore designed to protect the climate – a sign of our responsibility for people and nature. All systems are developed and produced in Germany at the Weißenfels site – using energy-saving machine technology and sustainable processes. But the principle of sustainability applies to all areas – to Schüco PVC-U products and process as well as to our company headquarters. At the Weißenfels site, only green electricity is used and the energy management is certified in accordance with DIN EN ISO 50001. Regular energy audits improve energy flows and minimise energy losses. Any new acquisitions are also tested and evaluated for energy efficiency.

Communication and sustainability

Certified with the new VinylPlus label, Schüco is now one of the first companies in the industry to be awarded this important PVC application for its active contribution to sustainable development.

The work and findings of VinylPlus are monitored by an independent committee with members from the European Parliament, European Commission, trade unions, the industry and consumer organisations. All statements in the annual report are confirmed by an auditor. For more information on VinylPlus, visit www.vinylplus.eu



Schüco system expertise

The Schüco PVC-U system world cannot fail to impress with its sophisticated system technology and minimal number of components. Our Schüco partners benefit from simple job planning, maximum product quality and reduced stock levels.



Key benefits at a glance

- High-quality products – Made in Germany
- Complete range of PVC-U profiles in two basic depths: 70 and 82 mm
- EPDM gaskets machine-rolled in the factory for efficient fabrication
- Wall thicknesses in accordance with RAL-GZ/716 and DIN EN 12608
- Different frame contours are available: Classic, Rondo and Vision
- Solutions for country-specific requirements
- Units and opening types available in a wide variety of designs
- Different possibilities in surface design
- Sophisticated constructions for outstanding insulation properties to satisfy individual requirements
- Comprehensive range of accessories for all systems
- Easy-access combination threshold for entrance doors and turn/tilt doors in all systems
- Fittings and ventilation systems for use with the profile systems
- Excellent sound reduction values
- Operational reliability ease of use over decades
- Narrow face widths ensure maximum light penetration
- Easy-to-clean surfaces
- Expertise in all materials within the Schüco Group
- RAL-tested, fully recyclable PVC-U systems



Design

Comfort

Security

Energy
efficiency

Overview of PVC-U systems

	Schüco Living Alu Inside	Schüco Alu Inside Nordic	Schüco Living 82 MD	Schüco Living 82 AS	Schüco Living Variant	Schüco Corona CT 70	Schüco Corona CT 70 Accent	Schüco ThermoSlide	Schüco LivingSlide	Schüco EasySlide	Schüco Corona S 150	Schüco Corona S 74
Schüco PVC-U systems												
Energy												
Passive house suitability (certified by the PHI and ift)	**											
Passive house suitability (certified by ift)	**		■									
Highly thermally insulated	■	■	■	■	■			■				
Thermally insulated						■	■			■	■	■
Drainage levels	3	3	3	2	2	2	2	4	3	2	2	2
U _f value in W/(m ² K) for basic version	0,81	0,87	1,0	1,1	1,0	1,30	1,40	1,10	1,30	1,80	1,80	2,30
Face width for U _f values in mm	120	94,5	120	120	120	120	120	174	180	178	164	110
Security												
Security to RC 2 / SKG Class 2*	■		■	■	■*	■	■	■	**	■	■	
Schüco VarioTec Air	■		■	■	■	■	■					
Schüco VarioTec / Schüco VarioTec NI	■		■	■	■	■	■					
Sound reduction (dB R _{w,p})	46		47	47		46	46	45	43	43		
Comfort												
EPDM gasket, weldable	■		■	■	■				■			
EPDM gasket, cannot be welded								■		■	■	
SEBS gasket		■										■
Schüco VentoTherm Advanced	■	■	■	■	■	■	■	■	■	■	■	
Schüco VentoPlus	■		■	■		■	■					
Schüco VentoAir+	■		■	■	■	■	■					
Design												
Basic depth in mm	82	120	82	82	120	70	112	219	194	167	150	74
Safety barrier	■		■	■	■	■						
Vent contours												
Rebated, Classic	■	■	■	■	■	■	■	■	■	■	■	■
Semi-rebated, Vision						■	■					
Quarter-rebated, Rondo						■	■					
Unit options												
Arched-head window			■	■		■						
Basement / utility room windows						■						
Special renovation solutions				■		■	■					
Schüco folding shutters	■		■	■		■	■					
Schüco AutomotiveFinish	■	■	■	■	■	■	■	■	■	■	■	■
Schüco TopAlu aluminium cover cap	■		■	■		■		■	■	■		
Schüco UnlimitedFinish	■	■	■	■	■	■	■	■	■	■	■	■
Top Swing		■										

** Pending

Schüco PVC-U systems	Schüco Living Alu Inside	Schüco Alu Inside Nordic	Schüco Living 82 MD	Schüco Living 82 AS	Schüco Living Variant	Schüco Corona CT 70	Schüco Corona CT 70 Accent	Schüco ThermoSlide	Schüco LivingSlide	Schüco EasySlide	Schüco Corona S 150	Schüco Corona S 74
Unit options												
Inward-opening windows												
Side-hung (SH), turn/tilt (TT), bottom-hung (BH) vent	■		■	■	■	■	■					
Tilt-before-turn vent (KvD)	■		■	■	■	■	■					
Double-vent	■		■	■	■	■	■					
Bottom-hung toplight	■		■	■	■	■	■					
Tilt/slide side-hung vent (PAD)	■		■	■	■	■	■					
Outward-opening window												
Side-hung (D), top-hung vent		■	■	■	■	■	■					
Horizontal pivot window						■	■					
Side-guided 90°		■										
Top-guided		■										
Inward-opening entrance doors												
Single-leaf				■	■	■	■					
Double-leaf				■	■	■	■					
With toplight / side section				■	■	■	■					
Outward-opening entrance doors												
Single-leaf				■	■	■	■					
Double-leaf				■	■	■	■					
With toplight / side section				■	■	■	■					
Door threshold												
Easy-access threshold (height 0 mm) for entrance doors				■								
Combination threshold (height 20 mm) for window doors and entrance doors	■		■	■		■						
Sliding units												
Tilt/slide vent (PASK)			■	■	■	■	■					
Tilt/slide sliding vent (PAS)			■	■	■	■	■					
Lift-and-slide construction								■	■	■		
Sliding construction											■	■
Panorama-design								■				



Window and door systems

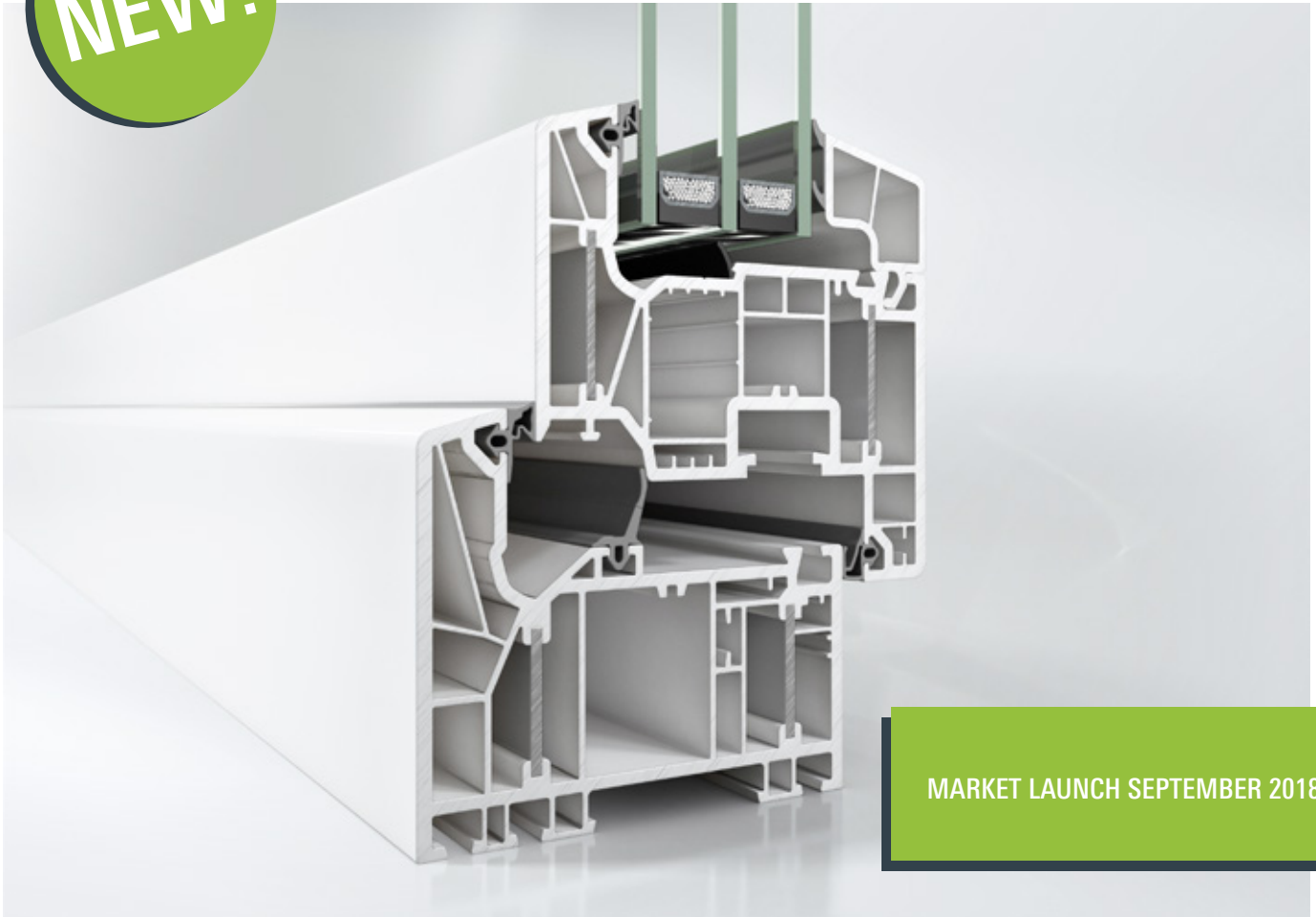
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Schüco LivIng Alu Inside

Based on the system dimensions Schüco LivIng, using patented aluminium profile rolling technology turns Schüco LivIng Alu Inside into a steel-free profile with maximum thermal insulation alongside a high level of cost-effectiveness and flexibility in fabrication and installation.

NEW!



MARKET LAUNCH SEPTEMBER 2018



Product highlights

- Passive House compatible window system
- Patented aluminium profile rolling technology (patent No. EP 1 196 677 B2) replaces conventional steel reinforcement, resulting in a smaller dead load for the units
- Centre gasket system with three continuous drainage levels
- A high level of system reliability and flexibility through integration in the Schüco LivIng basic system
- Gaskets made of weld-on EPDM rubber are rolled in the factory
- 100 % recyclable and can therefore be used in the manufacture of new profiles with secondary raw material inside
- For special design requirements, there is Schüco LivIng Alu Inside with coloured, grey base material
- Colour design with external aluminium cover caps, the exclusive Schüco AutomotiveFinish surface finish technology and a wide range of design foils

Schüco LivIng Alu Inside is the next logical development of the Schüco Alu Inside system. The system is based on patented aluminium profile rolling technology, whereby continuous aluminium strips are simultaneously extruded into PVC-U profiles. They provide the entire construction with a level of stability which almost rivals that of steel-reinforced profiles. The optimised rebate base geometry allows additive adhesive technology to be used. With this highly thermally insulated PVC-U system, steel-free windows which are suitable for passive houses can be produced economically on an industrial scale.

Thanks to its 7-chamber profile construction, the dispensation with steel reinforcement and the targeted positioning of the aluminium hinges, Schüco LivIng Alu Inside has no thermal bridging. Here, the material within the profile system – a high-quality aluminium alloy – is a distinct advantage because the polished surface reflects approx. 90 % of the heat radiation. The optimum division of the chambers, the reduction of the rebate space and additional, large insulation zones to accommodate optional insulation blocks allow insulation values to be achieved.

At the end of the utilisation phase of a building envelope, dismantling and recycling are important. Here, the use of materials with very good recycling potential plays a prominent role. Energy-saving windows from the Schüco LivIng Alu Inside profile system are 100% recyclable. PVC-U and aluminium are recycled by Rewindo GmbH and used in the manufacture of new profile systems. In this way, Schüco LivIng Alu Inside not only reduces CO₂ emissions through outstanding thermal insulation, but also supports sustainable climate protection through its efficient integration in the closed cycle waste management system.



Technical information	Schüco LivIng Alu Inside standard	Schüco LivIng Alu Inside with insulation
Dimensions		
Width of outer frame	82 mm	82 mm
Width of vent frame	82 mm	82 mm
Possible glazing thickness	24 mm – 52 mm	24 mm – 52 mm
Tests and standards		
Thermal insulation in accordance with DIN EN 12412-2	$U_i = 0,90 \text{ W}/(\text{m}^2\text{K})$ ***	$U_i = 0,81 \text{ W}/(\text{m}^2\text{K})$ ***
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	$R_{w,P} = 46 \text{ dB}$ ***	$R_{w,P} = 46 \text{ dB}$ ***
Burglar resistance in accordance with DIN EN 1627	RC2 ***	RC2 ***
Air permeability in accordance with DIN EN 12207 (Class)	4 ***	4 ***
Watertightness in accordance with DIN EN 12208 (Class)	9A ***	9A ***
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C5/B5 ***	C5/B5 ***
Mechanical loading in accordance with DIN EN 13115 (Class)	4 ***	4 ***
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	2 ***	2 ***
Operating forces in accordance with DIN EN 13115 (Class)	1 ***	1 ***
Load-bearing capacity of safety devices	***	***

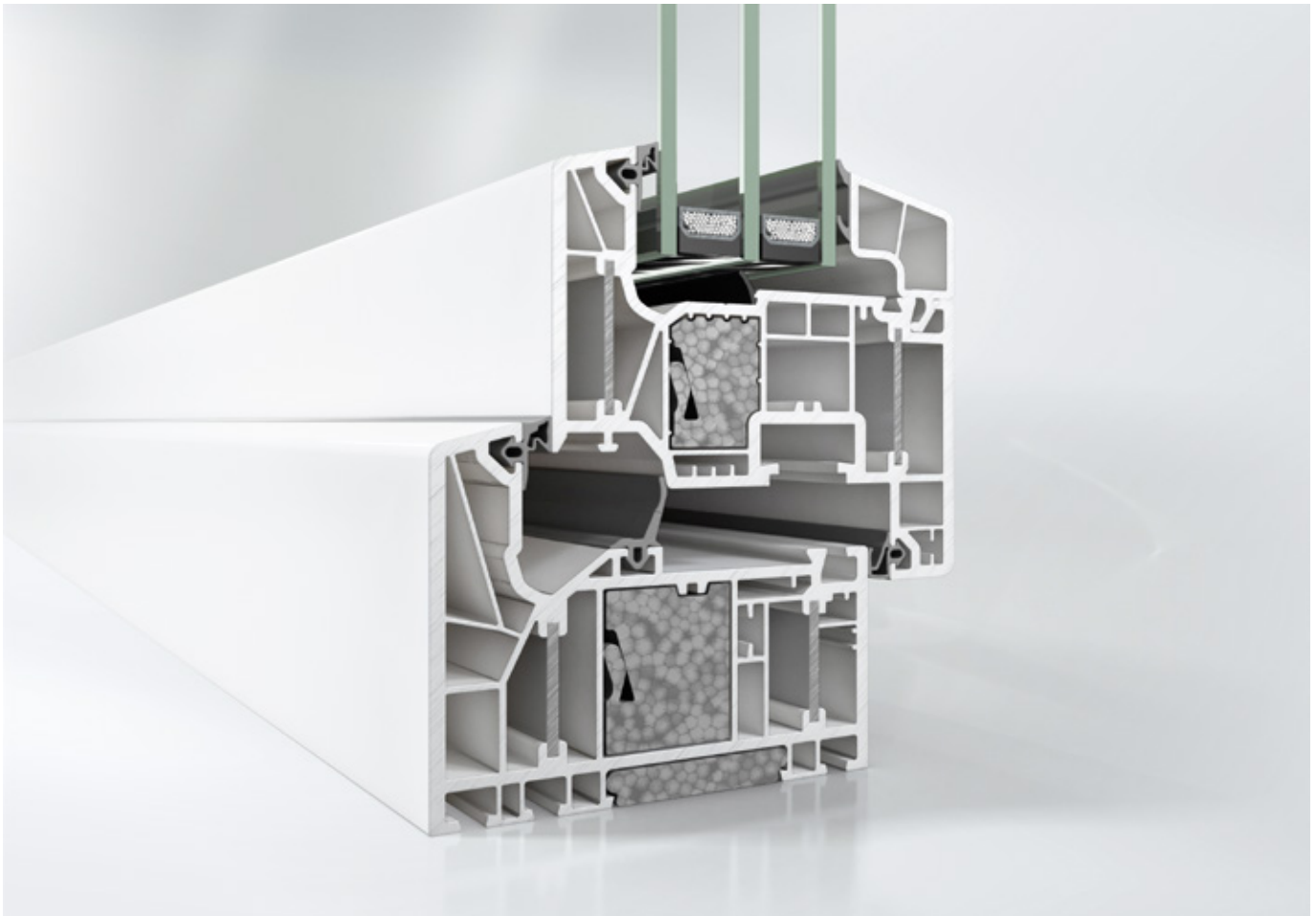
* Dependent on profile and glazing ** Dependent on profile *** Pending



Fabrication benefits

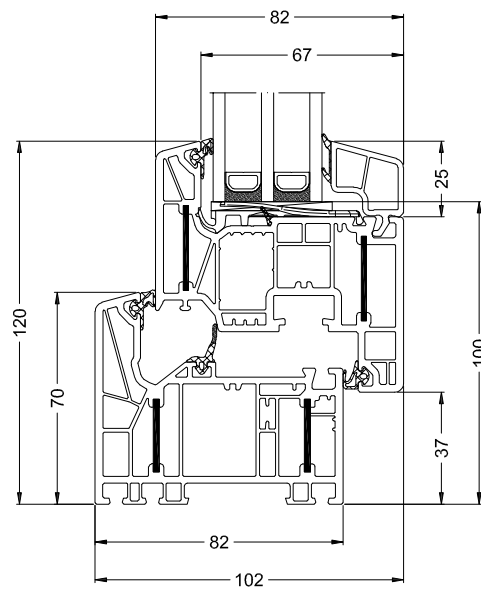
- The aluminium insulating bars are machined back simply and quickly before the welding process using an insulating bar milling machine; this removes the time-consuming process of fixing the steel reinforcements with screws
- All other fabrication steps are carried out in the usual way and using conventional production systems
- The lack of steel reinforcements results in a smaller dead load and makes unit installation much easier
- Simplified ordering process and warehouse storage plus efficient fabrication, as no steel reinforcement is required and the system is compatible with Schüco LivIng
- Identical system dimensions as Schüco LivIng allow a variety of main and accessory profiles to be used together and combined
- The vent rebate gasket does not need to be notched in the turn/tilt mechanism pivot area
- The same milling patterns for mullion/double vent recesses for outer frames, vent frames and T-profiles as in the Schüco LivIng system ensures quick and efficient processing with higher machine capacity
- Special screw ports for fixing the corner pivot in the vent
- Cam lock screws and several walls in the outer and vent frames ensure the fitting is more securely fixed and units are therefore easier to fabricate
- The aluminium cover cap can be clipped on without trimming the drip edge

Schüco LivIng Alu Inside system
passive house compatible

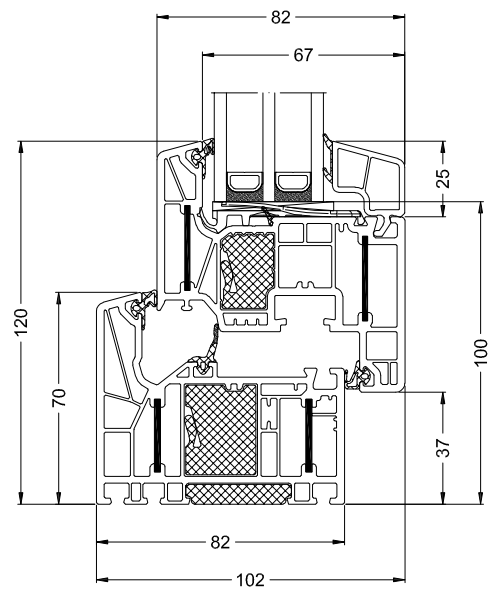




Private home, Ulm, Germany



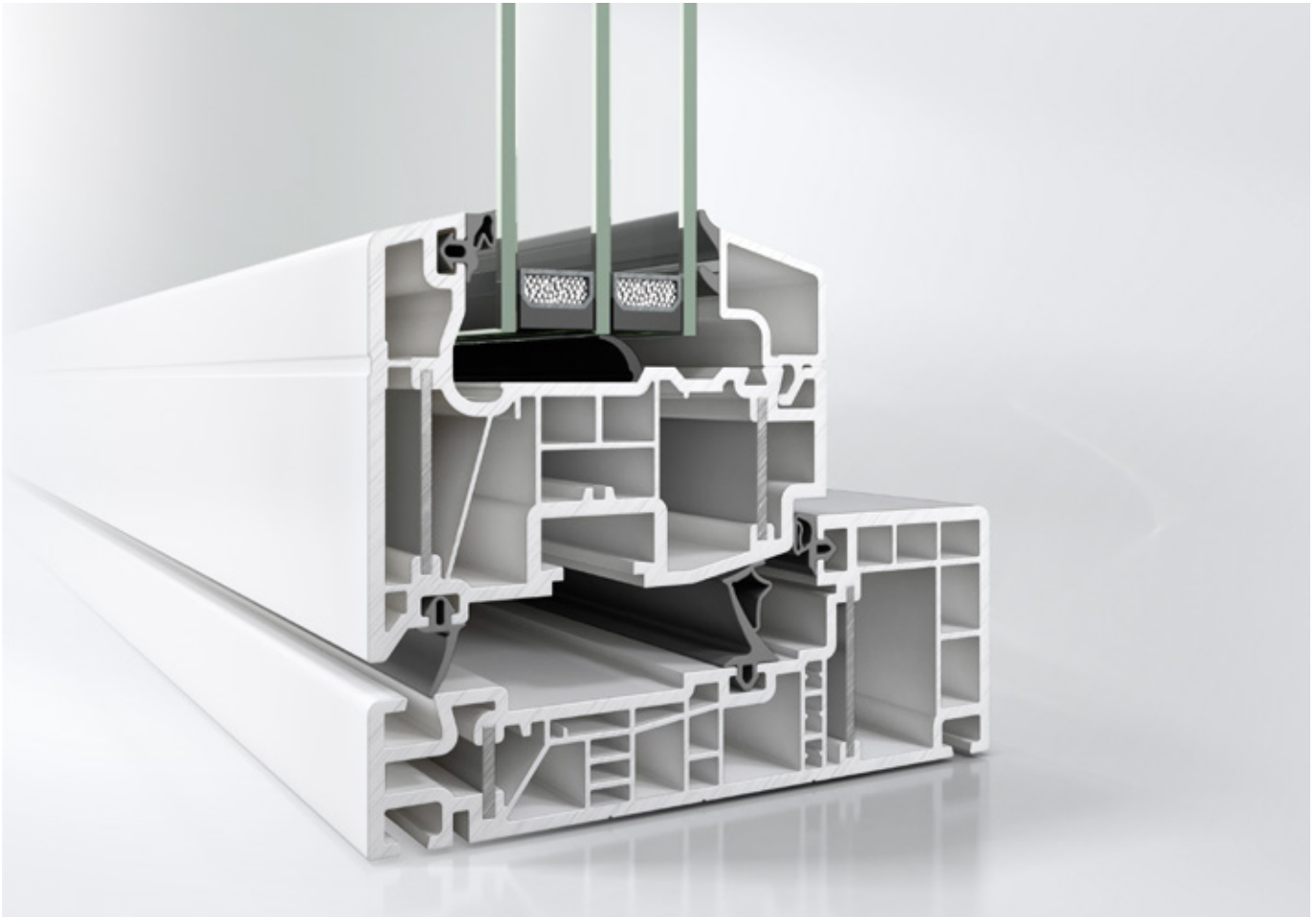
Section detail
Schüco LivIng Alu Inside Scale 1:2,5



Section detail
Schüco Alu Inside with insulation Scale 1:2,5

Schüco Alu Inside Nordic

Schüco Alu Inside Nordic is a highly thermally insulated, steel-free and outward-opening window system which is particularly suitable for renovations



Product highlights

- Excellent thermal insulation with U_f values to $0.87 \text{ W/(m}^2\text{K)}$ and E-Ref values of -13.76 to 21.7 kWh/m^2 per year
- Certified by the Teknologisk Institut Aarhus
- Outward-opening window system.
- Typical Scandinavian look with external decorative groove for perfect renovation
- A variety of traditional opening types are possible
- Outstanding stability for demanding structural requirements
- Patented aluminium profile rolling technology replaces conventional steel reinforcement, resulting in more rational, simpler fabrication, a simplified ordering process and reduced storage requirements

The Schüco Alu Inside Nordic PVC-U window system combines a traditional appearance with state-of-the-art technical features. Based on 7 or 11-chamber technology, the patented aluminium composite construction strengthens the profiles so effectively that, in contrast to conventional profiles, there is no need for steel reinforcements. At the same time, the aluminium bars reduce heat transfer caused by radiation and the three continuous gasket levels provide protection against wind, noise and cold. In this way, Schüco Alu Inside Nordic with increased basic depths offers the best thermal insulation. For more stringent energy and structural requirements, additional reinforce-

ment and insulating chambers are available to satisfy individual customer requirements. One further construction detail is the use of additive adhesive technology in the standard vent. This removes the need to use additional supplementary profiles and larger units can be easily implemented. The increased basic depths of 120 mm (outer frame) and 82 mm (vent frame) of the Schüco Alu Inside Nordic system provide greater security, as the fitting disappears deep within the profile and is well protected. And the closed, recessed fittings chamber is also protected against corrosion and dirt by a gasket.



Schüco Alu Inside Nordic window, closed
(top-guided window)



Schüco Alu Inside Nordic window, open
(top-guided window)

Technical information	Schüco Alu Inside Nordic
Dimensions	
Width of outer frame	120 mm
Width of vent frame	82 mm
Possible glazing thickness	18 mm – 52 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_r = 0,87 \text{ W}/(\text{m}^2\text{K})$
Air permeability in accordance with DIN EN 12207 (Class)	4
Watertightness in accordance with DIN EN 12208 (Class)	Up to E 1200
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C3

* Dependent on profile and glazing

** Dependent on profile

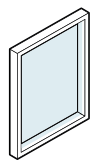


Fabrication benefits

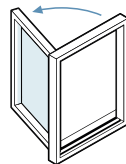
- Aluminium insulating bars are machined back before the welding process; this removes the time-consuming process of fixing the steel reinforcements with screws
- All fabrication steps are carried out using conventional production systems
- Due to a special, patented technology for welding the outer frame, the gaskets do not require any post-processing
- Same construction of outer overlaps allows uniform milling pattern for T-joints, cruciform joints and double-vent profiles
- Various attachment options for window sill and supplementary profiles
- Glazing rebate equipped for optional glass bonding
- All standard fittings systems can be used without additional machining



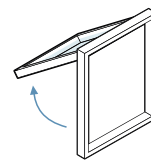
Opening types (outward-opening)



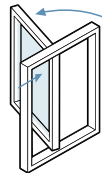
Fixed glazing



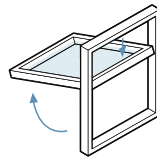
Side-hung window



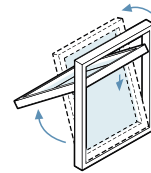
Top-hung window



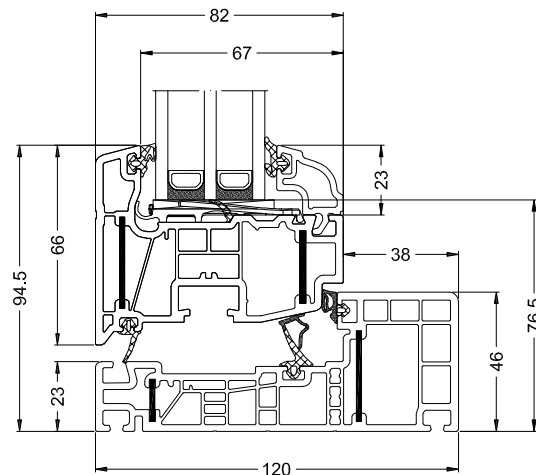
Side-guided 90° window



Top-guided window



Top Swing window



Section detail
Schüco Alu Inside Nordic Scale 1:2,5



Schüco LivIng

Based on twin system technology, the Schüco LivIng window and door system ensures impressively easy, efficient and flexible fabrication and installation. Simultaneously it enables the highest standards in terms of comfort and security as well as various options for design and construction.



Product highlights

- Twin system technology with the same vent profiles for the centre and rebate gasket options
- ift passive house compatible with centre gasket
- Innovative EPDM functional gaskets machine-rolled in the factory, can be welded
- Significant flexibility, efficiency and process reliability during fabrication and installation
- Reduced number of components means lower storage costs and a simplified ordering process

The Schüco LivIng window and door series sets standards in terms of energy efficiency for steel-reinforced profile systems. With the 7-chamber profile construction, Schüco LivIng achieves outstanding thermal insulation values with a basic depth of 82 mm. This means that passive houses are possible without expensive additional measures. At the same time, the option of bonding to the glass and the use of a glazing bead with a 2-chamber design can improve the thermal insulation further.

Another highlight is that Schüco LivIng is the first integrated weldable EPDM rubber gasket in the world.

Schüco also provides tailored fitting options for security technology. Windows and doors from the Schüco LivIng range can be designed up to resistance class 2 (RC 2). The possibility of bonding to the glass ensures additional protection and a feeling of security.

Schüco LivIng, as a complete system, offers many different options for attachment and supplementary profiles. Whether for residential or commercial projects, newbuild or modernisation, the new Twin System meets the individual requirements of clients; alongside windows, window doors and balcony doors, it is possible to implement tilt/slide doors, side entrance doors and entrance doors in a variety of opening types.

There is also an unlimited choice of colours: to meet the trend for different shades of grey in the construction industry, Schüco LivIng is now also available with a grey basic structure. This ensures a harmonious look, in particular when the window is open.

Technical information	Schüco LivIng 82 AS	Schüco LivIng 82 MD	Schüco LivIng 82 AS Doors
Dimensions			
Width of outer frame	82 mm	82 mm	82 mm
Width of vent frame	82 mm	82 mm	82 mm
Possible glazing thickness	24 mm – 52 mm	24 mm – 52 mm	24 mm – 52 mm
Tests and standards			
Thermal insulation in accordance with DIN EN 12412-2	$U_i = \text{to } 1,0 \text{ W}/(\text{m}^2\text{K})$	$U_i = \text{to } 0,96 \text{ W}/(\text{m}^2\text{K})$	$U_i = 1,1 - 1,3 \text{ W}/(\text{m}^2\text{K})$
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	$R_{w,p} = 47 \text{ dB}$	$R_{w,p} = 47 \text{ dB}$	$R_{w,p} = 42 \text{ dB}$
Burglar resistance in accordance with DIN EN 1627	RC2	RC2	RC2
Air permeability in accordance with DIN EN 12207 (Class)	4	4	4 / 2
Watertightness in accordance with DIN EN 12208 (Class)	9A	9A	7A / 5A
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C5 / B5	C5 / B5	C2 / B2
Mechanical loading in accordance with DIN EN 13115 (Class)	4	4	3
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	2	2	5
Operating forces in accordance with DIN EN 13115 (Class)	1	1	2/5
Load-bearing capacity of safety devices	Requirement met	Requirement met	Requirement met

* Dependent on profile and glazing ** Dependent on profile

Flexibility and efficiency during fabrication and installation

Schüco LivIng impresses with its simple, efficient and flexible fabrication, thereby significantly increasing process reliability in fabrication and installation. The sophisticated design saves fabricators time and money during fabricating. The Twin System technology, with a uniform sealing concept and identical fittings components, not only serves to reduce the number of

parts and lower storage costs, but it also simplifies the ordering process as a whole. Additional design details also increase use of the same parts and enable a more efficient fabrication process.

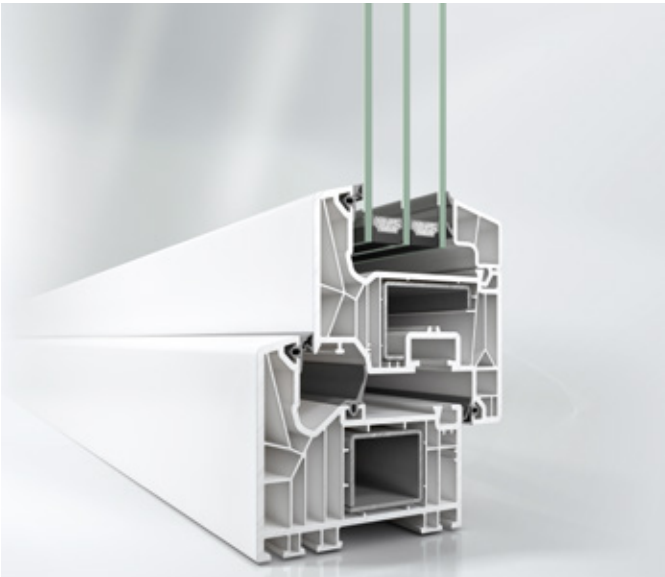


Fabrication benefits

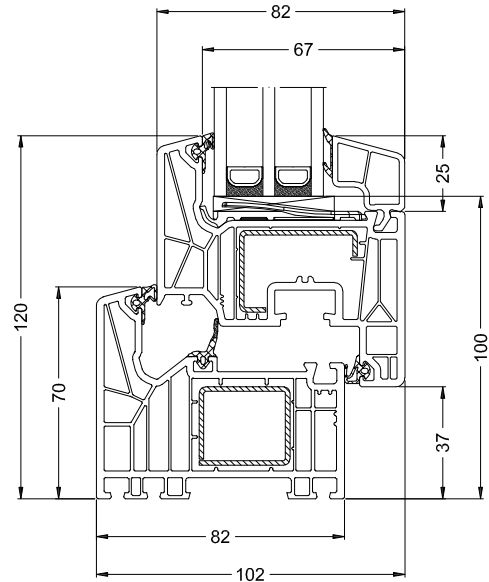
- Due to a special, patented technology for welding the outer frame, the gaskets do not require any post-processing
- Identical system dimensions, e.g. glass deduction for the system with rebate gasket and centre gasket, simplify fabrication
- Identical reinforcing profiles can be used for outer and vent frames
- Uniform rebate height of 3 mm allows identical milling patterns for the T-joint
- Due to the 5 mm gasket clearance between the outer and vent frames, the vent rebate gasket does not need to be notched in the turn/tilt mechanism pivot area
- Glazing bridge with self-locating clamp for secure and easy installation
- T-cleat can be used with all centre gaskets, which removes the need for notching the centre gasket
- Cliphook on the double-vent profiles as a positioning aid for simple installation and central screw connection



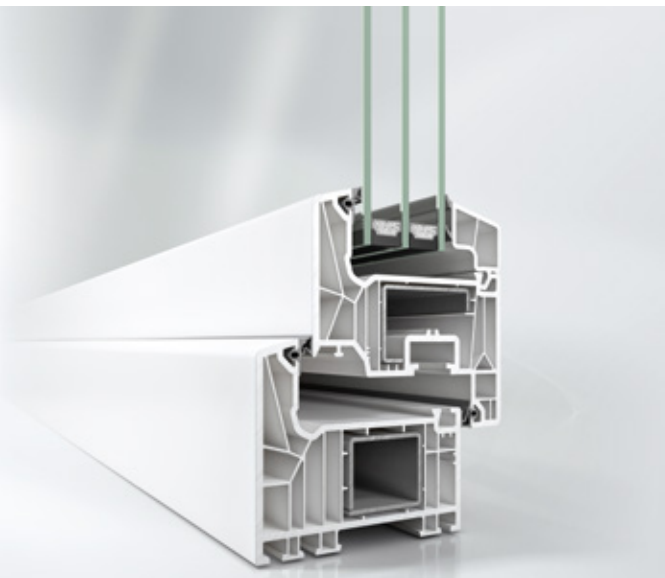
Office building, Bad Neuenahr-Ahrweiler, Germany



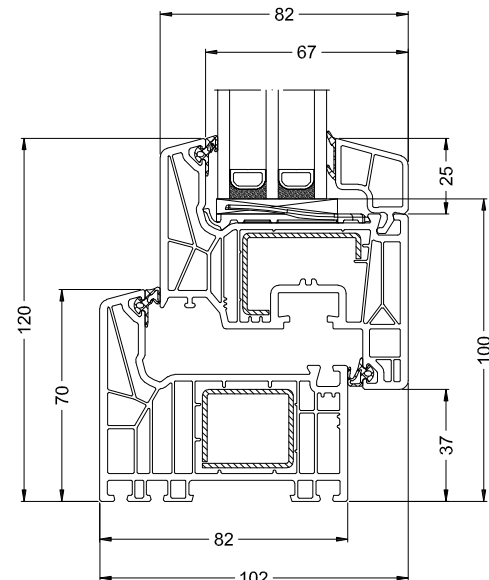
Schüco LivIng 82 MD



Section detail Schüco LivIng 82 MD Scale 1:2,5



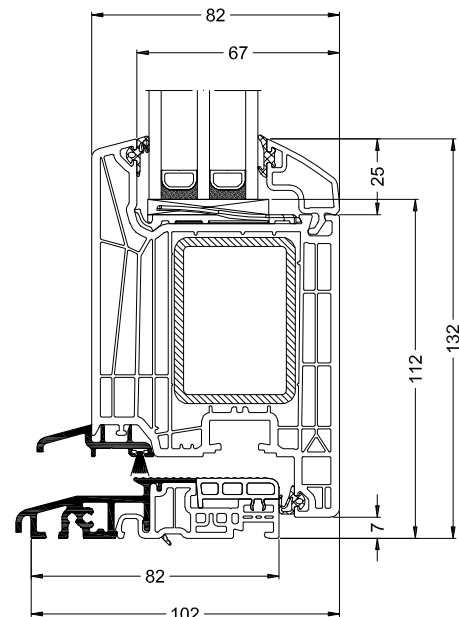
Schüco LivIng 82 AS



Section detail Schüco LivIng 82 AS Scale 1:2,5



Schüco LivIng front door system with mechanical fixing for leaf-enclosing door infills

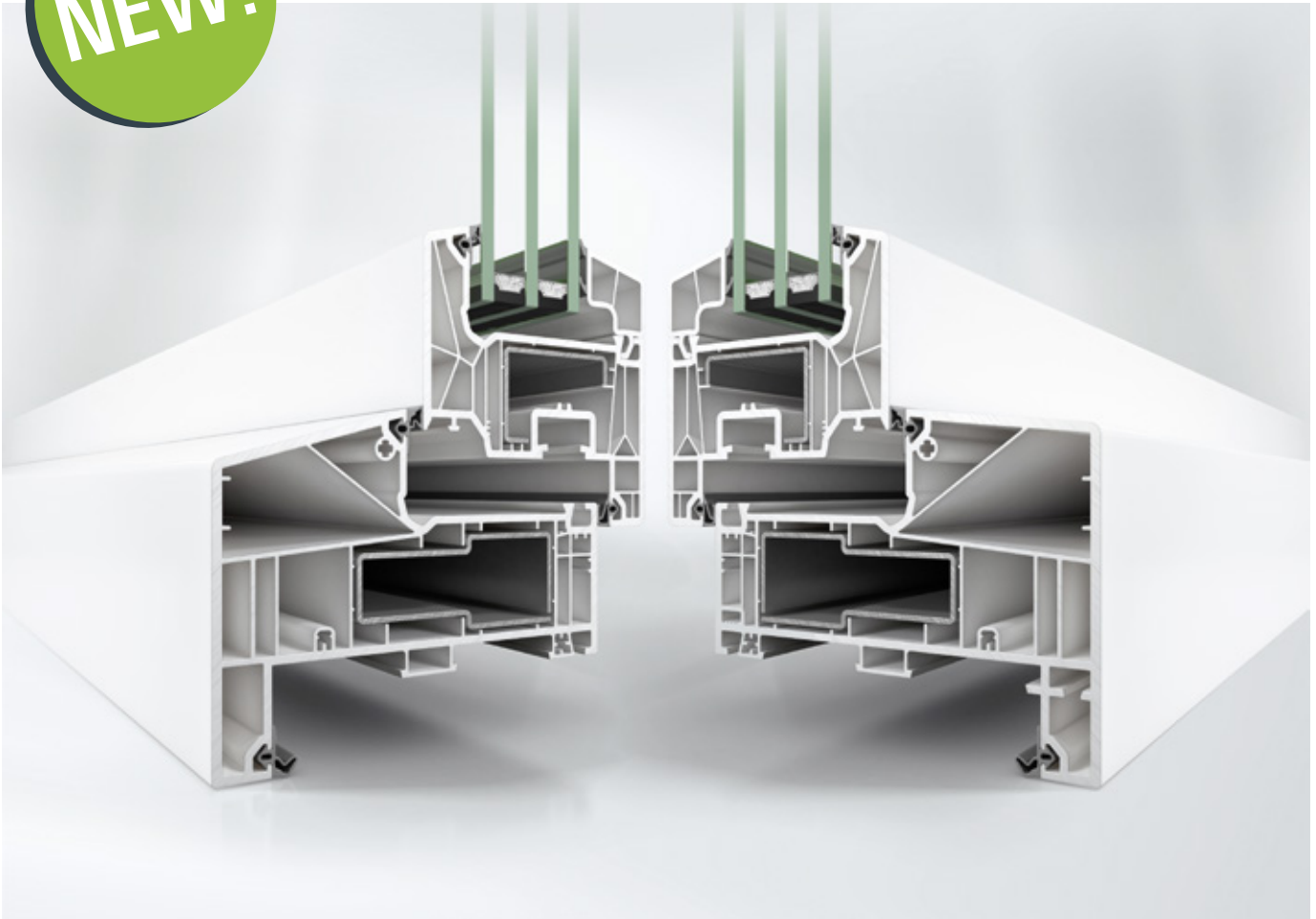


Section detail Schüco LivIng front door system Scale 1:2,5

Schüco LivIng Variant

The Schüco LivIng Variant PVC-U system is an innovative profile system that meets the highest energy efficiency requirements, and with its two contour options and corner joints options it is ideally suited for the typical timber window look.

NEW!

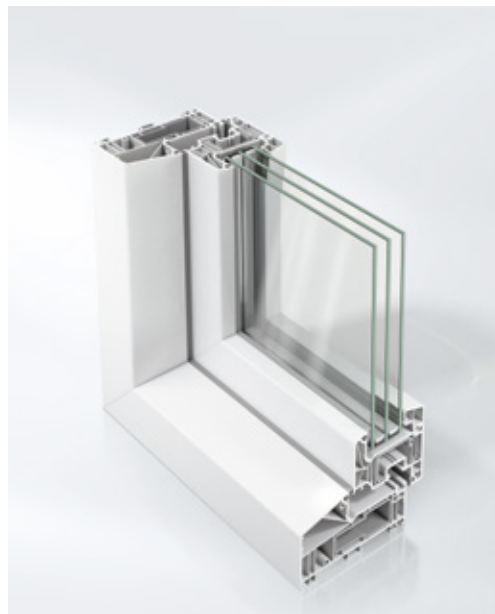


Product highlights

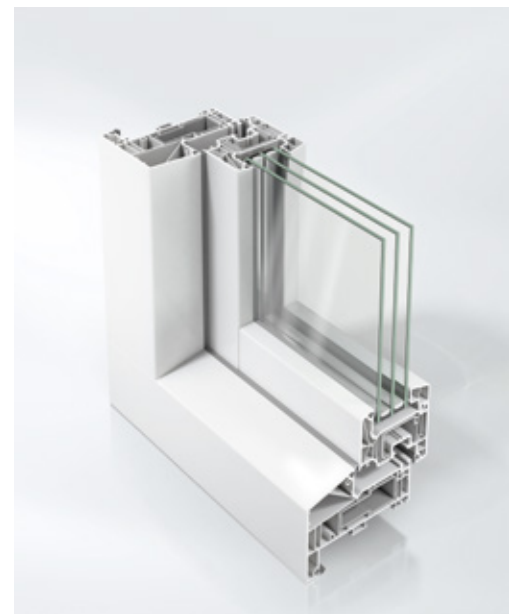
- Rebate gasket system for windows and doors with two continuous drainage levels
- Maximum energy efficiency thanks to the 6-chamber construction with a basic depth of 120 mm
- Two outer frame contours with 15° and 6° angles create an angular look
- Corner joints have a classic mitre cut or alternatively a timber window look
- System reliability and flexibility through compatibility with the Schüco LivIng system
- Unit security up to SKG class 2
- High-quality and weldable EPDM functional gaskets machine-rolled in the factory
- Groove on the inside makes it easy to support cover angles
- Integrated in the Schüco colour range with Schüco AutomotiveFinish and the Schüco foils range

The angular form of the Schüco LivIng Variant PVC-U window and door system allows the look of a traditional timber window to be perfectly reproduced. Two outer frame contours with 15° and 6° angles are available to meet individual requirements. The options for combining the two types mean that special design requirements can be met in full. Different types of attachment and supplementary profiles allow tilt/slide doors, side entrance doors and front doors to be constructed in addition to windows, window doors and balcony doors.

The construction is technically impressive with a basic depth of 120 mm and a sophisticated division of the chambers, ensuring excellent thermal insulation. Bonding the panes of glass simultaneously can improve the energy efficiency even further. The increased basic depth also ensures greater security, as the well-concealed fitting is out of reach of burglars. Burglar resistance can be further improved with the option of glass bonding.



Schüco LivIng Variant, corner view, mitre cut



Schüco LivIng Variant, corner view, timber window look

Technical information	Schüco LivIng Variant	Schüco LivIng Variant Doors
Dimensions		
Width of outer frame	120 mm	120 mm
Width of vent frame	82 mm	82 mm
Possible glazing thickness	24 mm – 52 mm	24 mm – 52 mm
Tests and standards		
Thermal insulation in accordance with DIN EN 12412-2*	$U_i = \text{to } 1,0\text{W}/(\text{m}^2\text{K})$	$U_i = 1,1 - 1,3\text{W}/(\text{m}^2\text{K})$
Burglar resistance in accordance with SKG**	SKG class 2	SKG class 2
Air permeability in accordance with DIN EN 12207 (Class)	4	4 / 2
Watertightness in accordance with DIN EN 12208 (Class)	9A	7A / 5A
Resistance to wind load in accordance with DIN EN 12210 (Class)*	C5 / B5	C2 / B2
Mechanical loading in accordance with DIN EN 13115 (Class)	4	3
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	2	5
Operating forces in accordance with DIN EN 13115 (Class)	1	2/5
Load-bearing capacity of safety devices	Requirement met	Requirement met

* Dependent on profile and glazing

** In connection with SKG-certified fittings

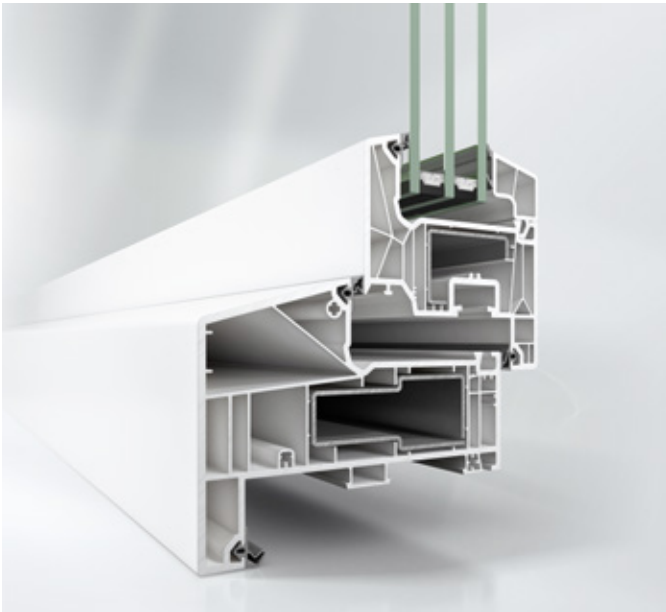


Fabrication benefits

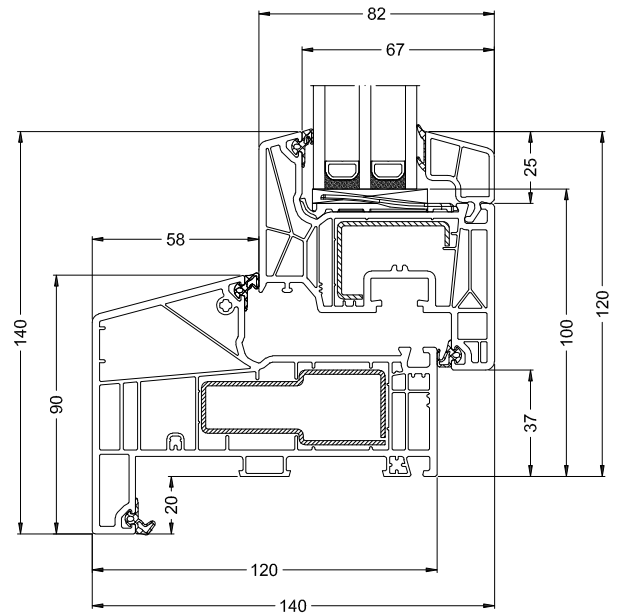
- Efficient and flexible fabrication and increased use of the same parts due to integration in the Schüco LivIng system platform
- Quick and clean installation of internal cover angles thanks to pre-milled groove in the outer frame profile; no need for silicone or similar in visible areas
- A 2-part T-cleat for 120 mm deep profiles simplifies the ordering process and makes fabrication easier
- Integrated screw ports for optimal fixing of T-profiles or thresholds
- Option of either face or downward drainage
- Cam lock screws and several walls in the outer and vent frames to securely fix the fitting
- Alternating adapter for creating inward-opening and outward-opening vent openings in a unit



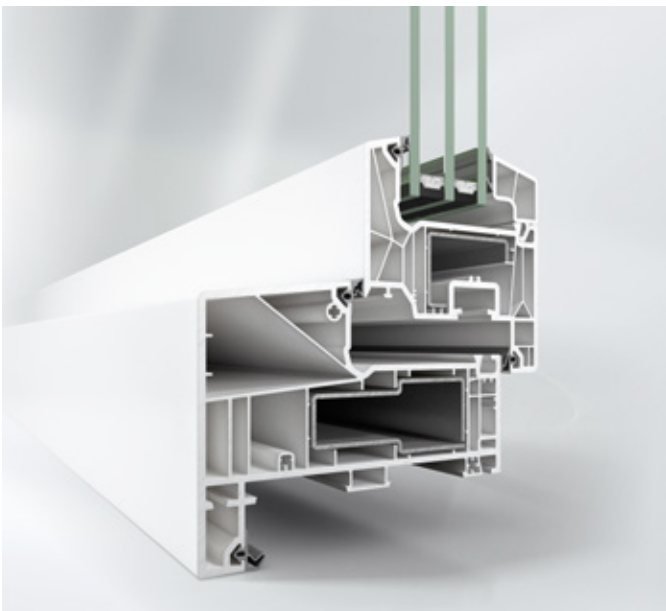
Private home with Schüco LivIng Variant elements



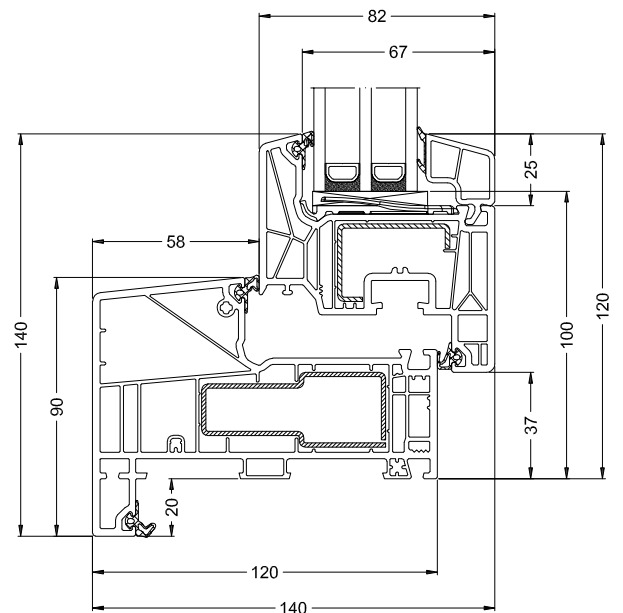
Schüco LivIng Variant with 15° slope



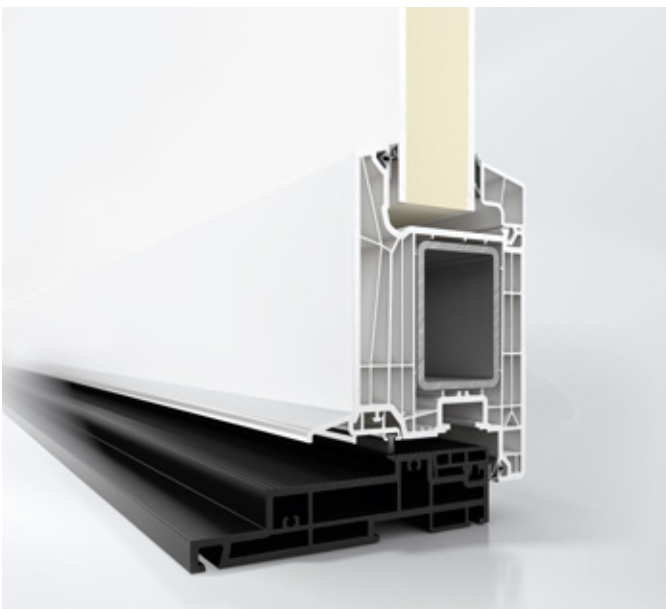
Section detail Schüco LivIng Variant with 15° slope Scale 1:2,5



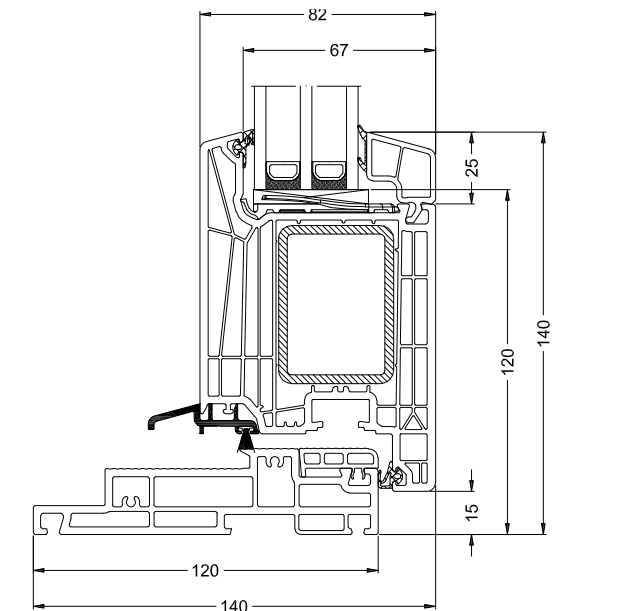
Schüco LivIng Variant with 6° slope



Section detail Schüco LivIng Variant with 6° slope Scale 1:2,5



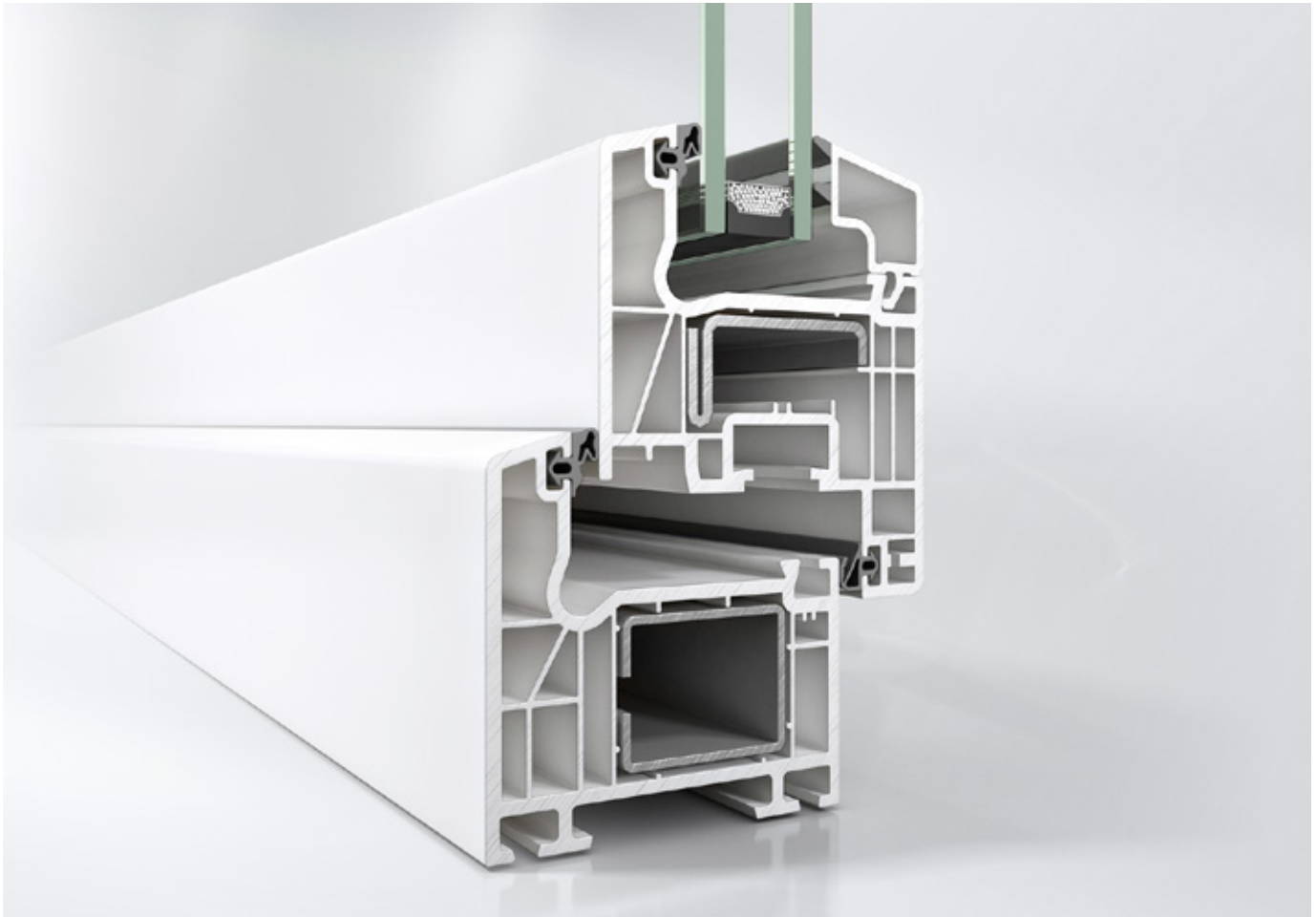
Schüco LivIng Variant Entrance door system



Section detail Schüco LivIng Variant Entrance door system Scale 1:2,5

Schüco Corona CT 70

As a rebate gasket system, the all-round Schüco Corona CT 70 system with good thermal insulation is an excellent series for modernisation projects and newbuilds.



Product highlights

- Different vent contour options for individual design requirements
- Renovation outer frame specially for building renovation
- Special Monoblock outer frame contour for the country-specific window look
- High-quality gaskets machine-rolled in the factory guarantee durability for the life of the window or door
- Different reinforcing profiles ensure maximum stability and durability, even for particular requirements
- Integrated in the Schüco colour range with Schüco TopAlu, Schüco AutomotiveFinish and the Schüco foils range

The Schüco Corona CT 70 system is based on a 5-chamber construction with a basic depth of 70 mm, guaranteeing good thermal insulation. Narrow face widths ensure plenty of light and thanks to the two continuous gasket levels, the unit's excellent sound reduction provides additional comfort for the user.

Schüco Corona CT 70 boasts a good take up of tolerances due to the 5 mm tolerances between outer and vent frames, the gaskets machine-rolled in the factory and perfectly sized reinforcing chambers.

Depending on structural requirements, the variety reinforcing profiles in the outer and vent frames ensure that the windows are highly robust and durable. The system is flexible in terms of design, too – Schüco Corona CT 70 is available in different vent and frame contour options.

Windows, window doors, side entrance doors and entrance doors can be constructed with the Schüco Corona CT 70 system.



Schüco Corona CT 70 Rondo



Schüco Corona CT 70 Vision

Technical information	Classic / Rondo / Vison	Reno / Mono	Doors
Dimensions			
Width of outer frame	70 mm	70 mm / 100 mm – 180 mm	70 mm
Width of vent frame	70 mm / 78 mm / 80 mm	70 mm	70 mm
Possible glazing thickness	6 mm – 40 mm	6 mm – 40 mm	6 mm – 40 mm
Tests and standards			
Thermal insulation in accordance with DIN EN 12412-2	$U_i = 1,2 - 1,5 \text{ W}/(\text{m}^2\text{K})$	$U_i = 1,2 - 1,5 \text{ W}/(\text{m}^2\text{K})$	$U_i = 1,4 - 1,5 \text{ W}/(\text{m}^2\text{K})$
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	$R_{w,P} = 46 \text{ dB}$	$R_{w,P} = 46 \text{ dB}$	$R_{w,P} = 38 \text{ dB}$
Burglar resistance in accordance with DIN EN 1627	RC2	RC2	RC2
Air permeability in accordance with DIN EN 12207 (Class)	4	4	2
Watertightness in accordance with DIN EN 12208 (Class)	9A	9A	4A
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C5/B5	C5/B5	C2/B2
Mechanical loading in accordance with DIN EN 13115 (Class)	4	4	3
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	2	2	5
Operating forces in accordance with DIN EN 13115 (Class)	1	1	2
Load-bearing capacity of safety devices	Requirement met	Requirement met	Requirement met

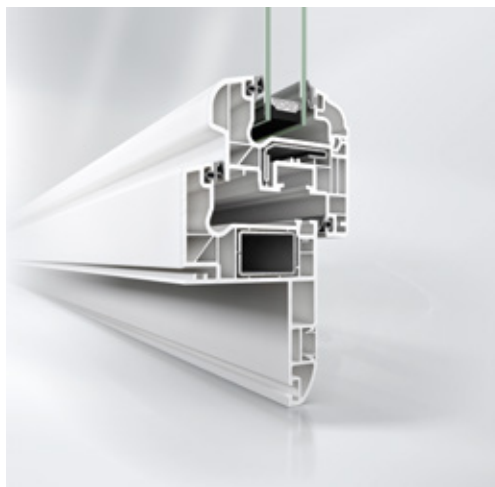
* Dependent on profile and glazing

** Dependent on profile

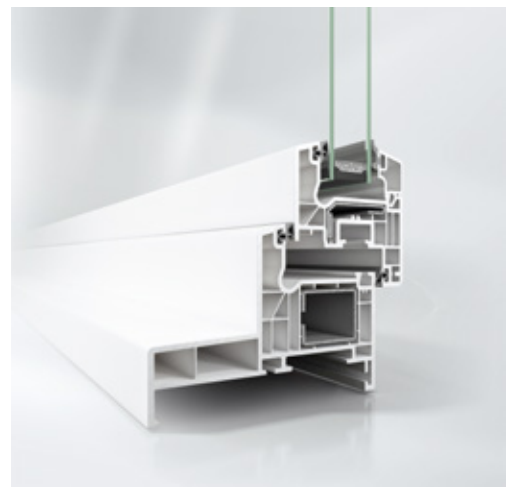


Fabrication benefits

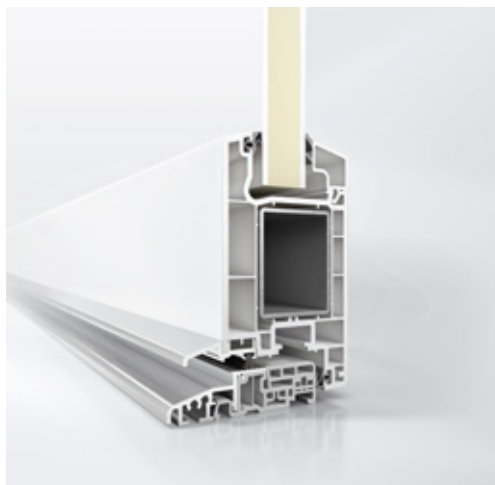
- High-quality gaskets rolled in the factory
- Same construction of outer overlaps allows uniform milling patterns for the T-joint
- Due to the 5 mm gasket clearance between the outer and vent frames, the vent rebate gasket does not need to be notched in the turn/tilt mechanism pivot area



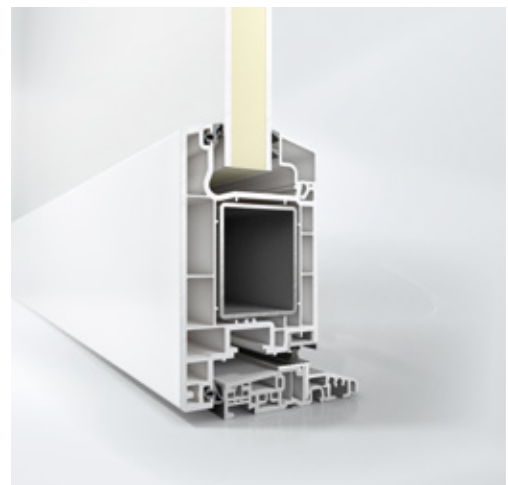
Schüco Corona CT 70 renovation outer frame



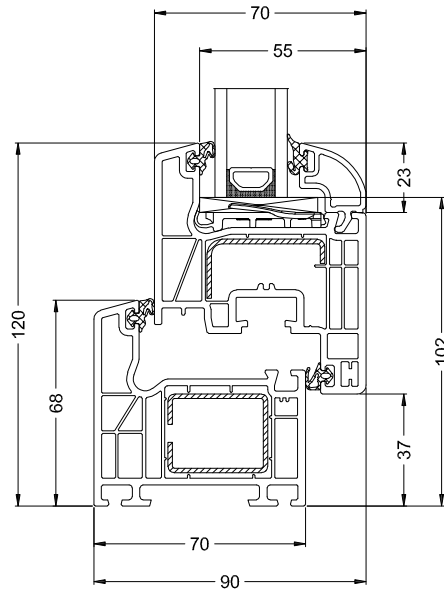
Schüco Corona CT 70 Monoblock



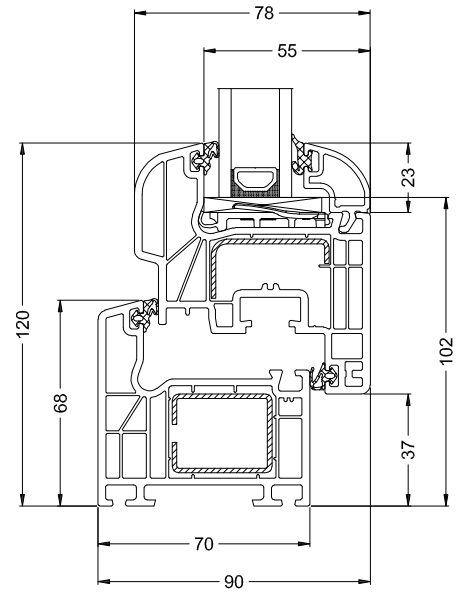
Schüco Corona CT 70 entrance door, inward-opening



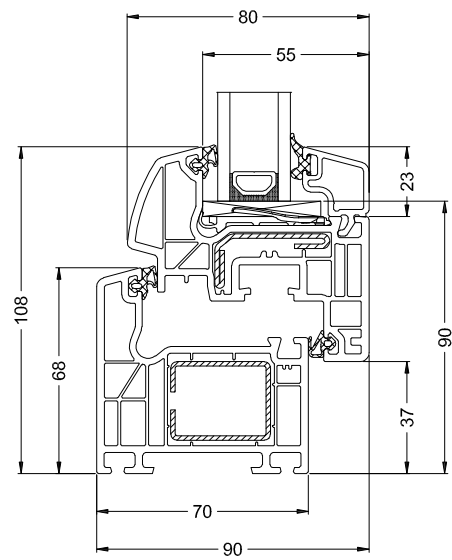
Schüco Corona CT 70 entrance door, outward-opening



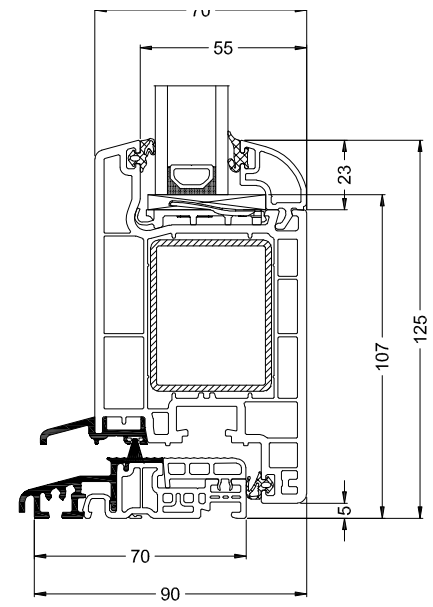
Section detail
Schüco Corona CT 70 Classic Scale 1:2,5



Section detail
Schüco Corona CT 70 Rondo Scale 1:2,5



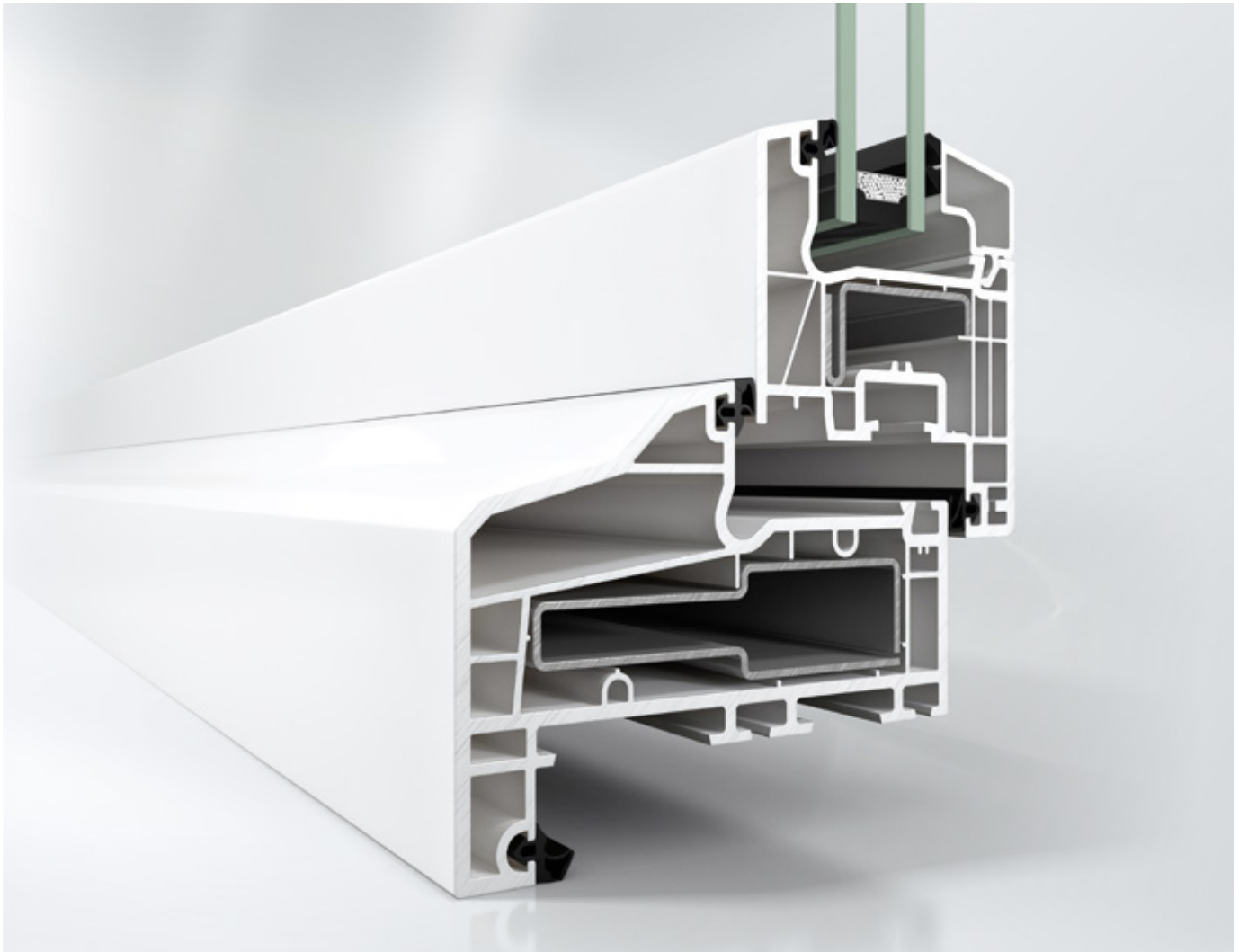
Section detail
Schüco Corona CT 70 Vision Scale 1:2,5



Section detail Schüco Corona CT 70 entrance door,
inward-opening Scale 1:2,5

Schüco Corona CT 70 Accent

The Schüco Corona CT 70 Accent rebate gasket system is based on the Schüco Corona CT 70 series. With its distinctive outer frame contour, Schüco Corona CT 70 Accent allows PVC-U units to be reproduced in a timber look.



Product highlights

- 5-chamber system with good thermal insulation properties
- Can be used in newbuilds and renovations
- A vertical sliding window that combines the historic, recessed look with modern turn/tilt fittings technology is available for renovating special building shapes.
- Distinctive outer frame contour allows the look of typical timber windows to be reproduced
- Corner joint can have a traditional timber look
- High-quality gaskets machine-rolled in the factory guarantee functional security and protection against draughts, cold and moisture
- Different reinforcing profiles ensure maximum stability and durability, even for particular requirements

Window and door units with good thermal insulation can be fabricated with the Schüco Corona CT 70 Accent profile system, as the 5-chamber construction with an installation depth of 112 mm provides effective thermal insulation.

The system is technically impressive with ideally dimensioned reinforcing chambers to meet the highest structural requirements, a large selection of attachment and accessory profiles, and an array of reinforcing profiles in the vent and outer frame.

The system compatibility with the Schüco Corona CT 70 basic system results in increased use of the same parts. So units from the Schüco Corona CT 70 Accent system, for example, can also be fabricated with the three frame contours Classic, Rondo and Vision.

This allows greater individuality and more design freedom. Another design advantage is the integration in the Schüco colour range, with a wide range of design foils and the exclusive Schüco AutomotiveFinish metallic shades. For the perfect visual design of the foiled window and door units, the base materials are available in two colours: white and cream white. The slimline frame construction means narrow face widths for maximum light penetration. A variety of different window and door units can be constructed from the Schüco Corona CT 70 Accent.

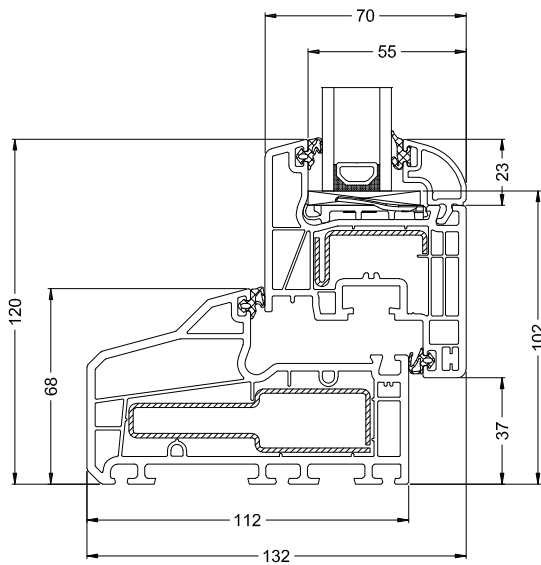
Technical information	Schüco Corona CT 70 Accent	Schüco Corona CT 70 Accent DoorsDoors
Dimensions		
Width of outer frame	112 mm	112 mm
Width of vent frame	70 mm	70 mm
Possible glazing thickness	6 mm – 40 mm	6 mm – 40 mm
Tests and standards		
Thermal insulation in accordance with DIN EN 12412-2	$U_i = 1,4 \text{ W}/(\text{m}^2\text{K})$	$U_i = 1,4 - 1,5 \text{ W}/(\text{m}^2\text{K})$
Sound reduction in accordance with DIN EN ISO 140-3 (maximum) *	$R_{w,p} = 43 \text{ dB}$	$R_{w,p} = 38 \text{ dB}$
Burglar resistance in accordance with DIN EN 1627	SKG class 2	SKG class 2
Air permeability in accordance with DIN EN 12207 (Class)	4	–
Watertightness in accordance with DIN EN 12208 (Class)	9A	–
Resistance to wind load in accordance with DIN EN 12210 (Class) **	C5 / B5	–
Mechanical loading in accordance with DIN EN 13115 (Class)	4	3
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	2	5
Operating forces in accordance with DIN EN 13115 (Class)	1	2
Load-bearing capacity of safety devices	Requirement met	Requirement met

* Dependent on profile and glazing ** Dependent on profile

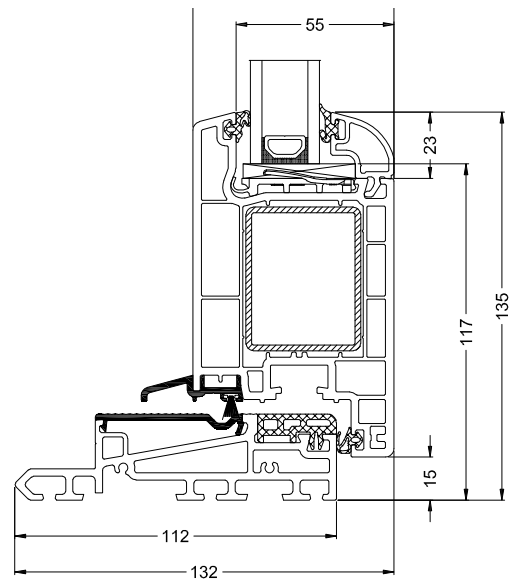


Fabrication benefits

- Incorporation in the Schüco Corona CT 70 series allows increased use of the same parts, simplifies the ordering process and minimises storage costs
- High-quality gaskets rolled in the factory
- Sealed gasket level in block outer frame using weld-on TPE gasket
- Same construction of outer overlaps allows uniform milling patterns for the T-joint
- Visible or concealed outer frame drainage possible on several levels to suit requirements
- Efficient fabrication



Section detail
Schüco Corona CT 70 Accent Scale 1:2,5



Section detail
Schüco Corona CT 70 Accent Entrance door system Scale 1:2,5





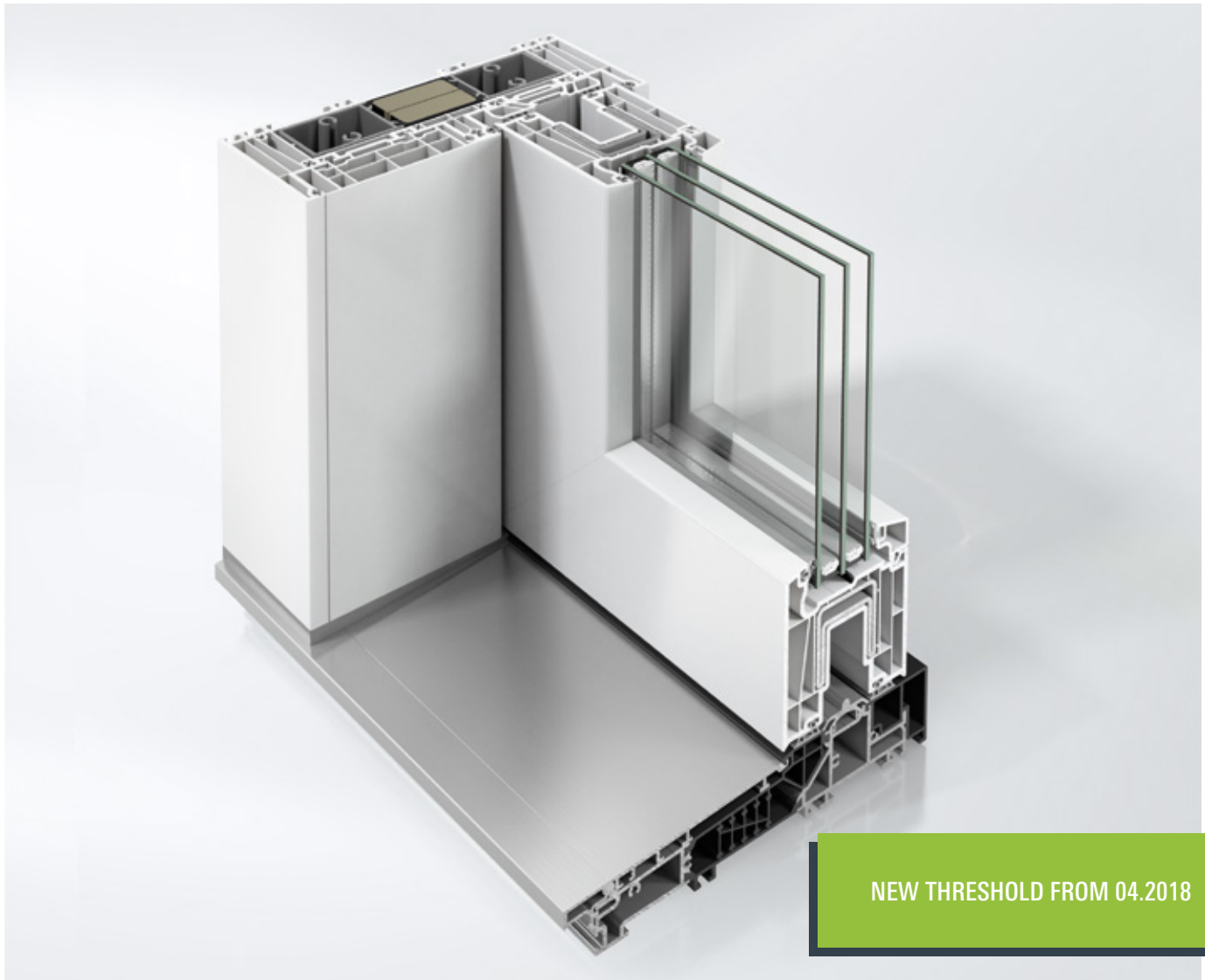
Lift-and-slide and sliding systems

52

- 54 Schüco ThermoSlide
- 58 Schüco LivingSlide
- 62 Schüco EasySlide
- 66 Schüco Corona S 150
- 69 Schüco Corona S 74

Schüco ThermoSlide

Excellent thermal insulation, sophisticated construction details and an extremely high level of user comfort are what make the Schüco ThermoSlide lift-and-slide door system stand out.



Product highlights

- Excellent thermal insulation that is unique on the market and up to passive house standard
- With a frame trim basic depth of 219 mm, it is perfect for newbuilds
- Level transition to the outside for easy-access construction
- High load-bearing capacity for vent weights up to 400 kg
- Simple installation due to frame trims and threshold connector
- Different opening types for individual requirements

The Schüco ThermoSlide PVC-U lift-and-slide system is all about comfort. With large glazed areas, it creates bright spaces and is easy to use with silent operation. The three drainage levels offer protection against draughts, cold and moisture.

The Schüco ThermoSlide system meets just as high requirements in terms of energy efficiency. In addition to the optimum chamber geometry, a thermally broken frame trim reinforcement and the newly developed threshold ensure outstanding thermal insulation and optimised isothermal flows. The vent frame is also enclosed by the frame trim profile with a basic depth of 219 mm. A further benefit is that all gaskets are made from EPDM rubber. This innovative sealing material offers unique excellent recovery properties and long-lasting functionality. Newly developed anti-friction gaskets are used in the centre section.

Newly designed threshold

The development of the threshold's design now allows the attachment to building structure with sealing up to the outer edge of the unit, which achieves full weathertightness in this area. Furthermore, the warm plastic profile on the room side prevents the build-up of condensation. To balance out the floor construction and avoid inaccuracies and resulting stiffness for the entire system, the connection of 82 mm extensions is now possible. On the inside, a high-volume, structurally reinforced package insulation zone has been constructed for the best possible thermal break and optimum thermal insulation for the threshold. In addition, an optional height-adjustable roller carriage has been provided for vent weights up to max. 300 kg. Finally, the concealed room-side threshold connectors, which are also new, ensure a visually appealing transition from the threshold to the frame trim.

Technical information	Schüco ThermoSlide
Dimensions	
Width of outer frame	219 mm
Width of vent frame	82 mm
Possible glazing thickness	20 mm – 52 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 1,1 \text{ W}/(\text{m}^2\text{K})$
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	$R_{w,P} = 45 \text{ dB}$
Burglar resistance in accordance with DIN EN 1627	RC2
Air permeability in accordance with DIN EN 12207 (Class)	4
Watertightness in accordance with DIN EN 12208 (Class)	8A
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C3/B3
Operating forces in accordance with DIN EN 13115 (Class)	1

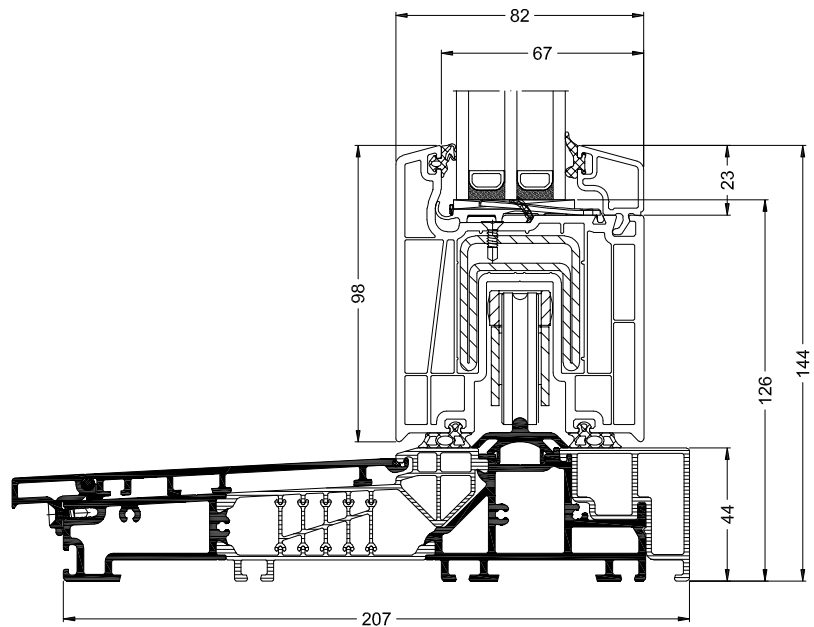
* Dependent on profile and glazing

** Dependent on profile



Fabrication benefits

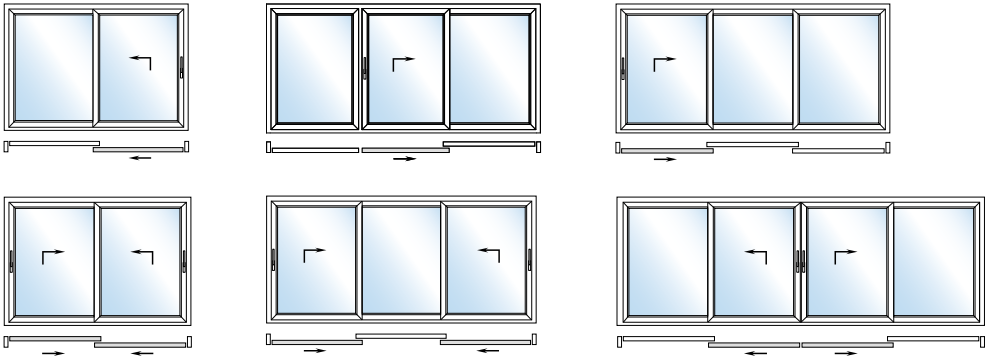
- Faster installation possible with lower use of material and therefore better economy efficiency
- Frame trim and threshold connectors also simplify installation
- Sealing by means of EPDM sealing pad, which means that full sealing by means of sprayable sealants is not necessary
- Straight cutting of all profiles (apart from the vent profile), which means that time-consuming machining work is no longer required
- Main and supplementary profiles are supplied cut to the optimum length
- Vent frames can be processed on CNC machines
- Installation of lift-and-slide roller carriages without the need for additional, time-consuming machining



Section detail Schüco ThermoSlide Scale 1:2,5

Opening types

The Schüco ThermoSlide lift-and-slide door system does not limit access to the outside. It is possible to create a large opening through the middle or through the outer sliding vents. It is therefore possible to install double, triple and quadruple-vent units.



Schüco ThermoSlide inside view

Schüco LivIngSlide

The new lift-and-slide system from Schüco combines maximum fabrication and installation efficiency with the highest standards of comfort and design.

NEW!



SALES LAUNCH: DECEMBER 2018



Product highlights

- Integration in the Schüco LivIng range enables increased use of the same parts and system reliability
- Innovative gaskets made from weld-on EPDM rubber
- Delivery includes Schüco lift-and-slide fittings all from a single supplier
- Thanks to the frame trim basic depth of just 194 mm, use in newbuilds and renovations is possible
- Large selection of unit options with fixed and moveable vent frames
- Optional panorama glazing available for fixed field
- Particularly flat threshold for comfortable entry and exit
- Colour design with external aluminium cover caps, the exclusive Schüco AutomotiveFinish surface finish technology and a wide range of design foils
- Outstanding thermal insulation and isothermal flows thanks to thermally broken threshold as well as also thermally broken frame trim reinforcing profiles made from aluminium

The innovative Schüco LivIngSlide lift-and-slide door system has been designed on the basis of the Schüco LivIng system dimensions, as the basic depth of the vent frame is 82 mm. The resulting compatibility of the systems is due to the large number of accessories profiles such as glazing beads and other glazing accessories. Furthermore, the uniform system dimensions allow simple and flexible planning as well as the implementation of attachment options. At the same time, the number of parts is reduced significantly, which in turn minimises the work required and storage costs.

The new lift-and-slide system also has plenty to offer in terms of design. The steel reinforcements in the vent frame have been designed as closed rectangular tubes. This increases the design's stability significantly and allows the construction of large units with vent weights up to 400 kg. The weldable EPDM glazing gaskets in the vent frame are rolled in the factory and offer a particular benefit. They ensure soft inner corners even after the welding process

and thereby optimum weathertightness in this area. The sealing between vent and frame trim is also noteworthy, as it is continuous on several levels and thereby minimise draughts and condensation. In order to prevent sloping roller carriages, a roller carriage support is used to ensure a secure centring and fixing. It is also possible to use additive adhesive technology.

The Schüco LivIngSlide system is also visually eye-catching. The flush design avoids the typical gaps in the fixed field and creates a modern, streamlined appearance which is also easy to clean. The narrow centre joint guarantees maximum light penetration. Schüco LivIngSlide is also included in the Schüco colour concept.

Technical information	Schüco LivIngSlide
Dimensions	
Width of outer frame	194 mm
Width of vent frame	82 mm
Possible glazing thickness	24 mm – 52 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 1,3 \text{ W}/(\text{m}^2\text{K})$
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	$R_{w,P} = 43 \text{ dB}$
Burglar resistance in accordance with DIN EN 1627	RC2***

* Dependent on profile and glazing

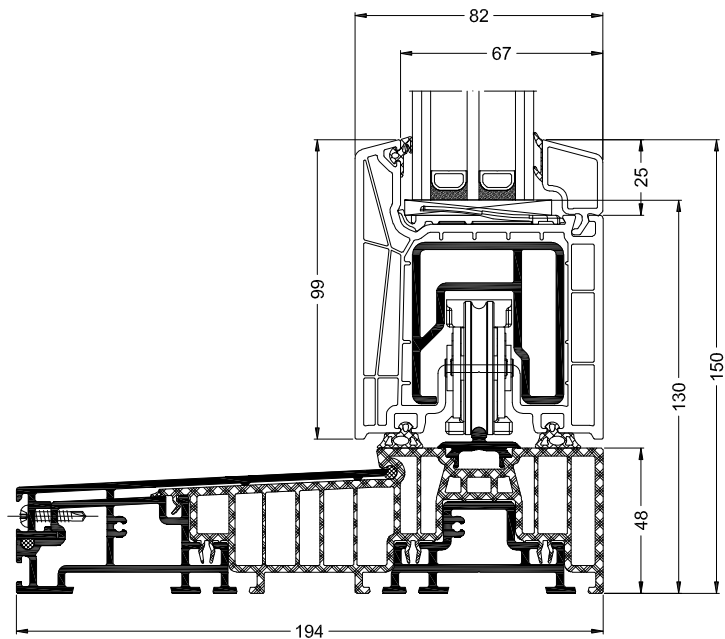
** Dependent on profile

*** Pending



Fabrication benefits

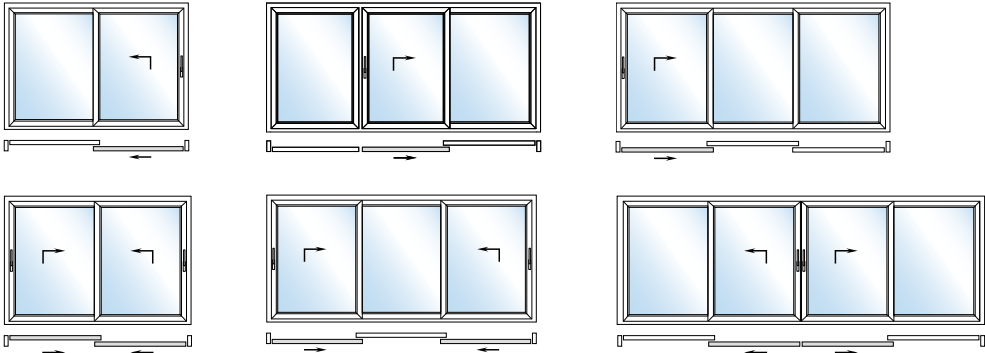
- Designed for the economical fabrication of lift-and-slide systems by means of a reduced number of parts and simple and cost-effective installation
- Lift-and-slide vent frames can be machined on CNC machines
- Main and supplementary profiles are supplied cut to the optimum length
- Push-in frame trim connector for fast fabrication
- Stable, closed vent cross section prevents deformation during fabrication without having to take additional measures
- EPDM sealing parts with positioning aids for faster installation
- Connector sets with moulded parts are available for sealing. This reduces sprayable sealants and simplifies installation considerably.
- The same glazing beads and glazing accessories as the Schüco LivIng system can be used
- An economical solution for the steel frame trim reinforcement is available
- The aluminium cover cap can be clipped on without trimming the drip edge
- Optimum accommodation of fabrication and installation tolerances



Section detail Schüco LivIngSlide Scale 1:2,5

Opening types

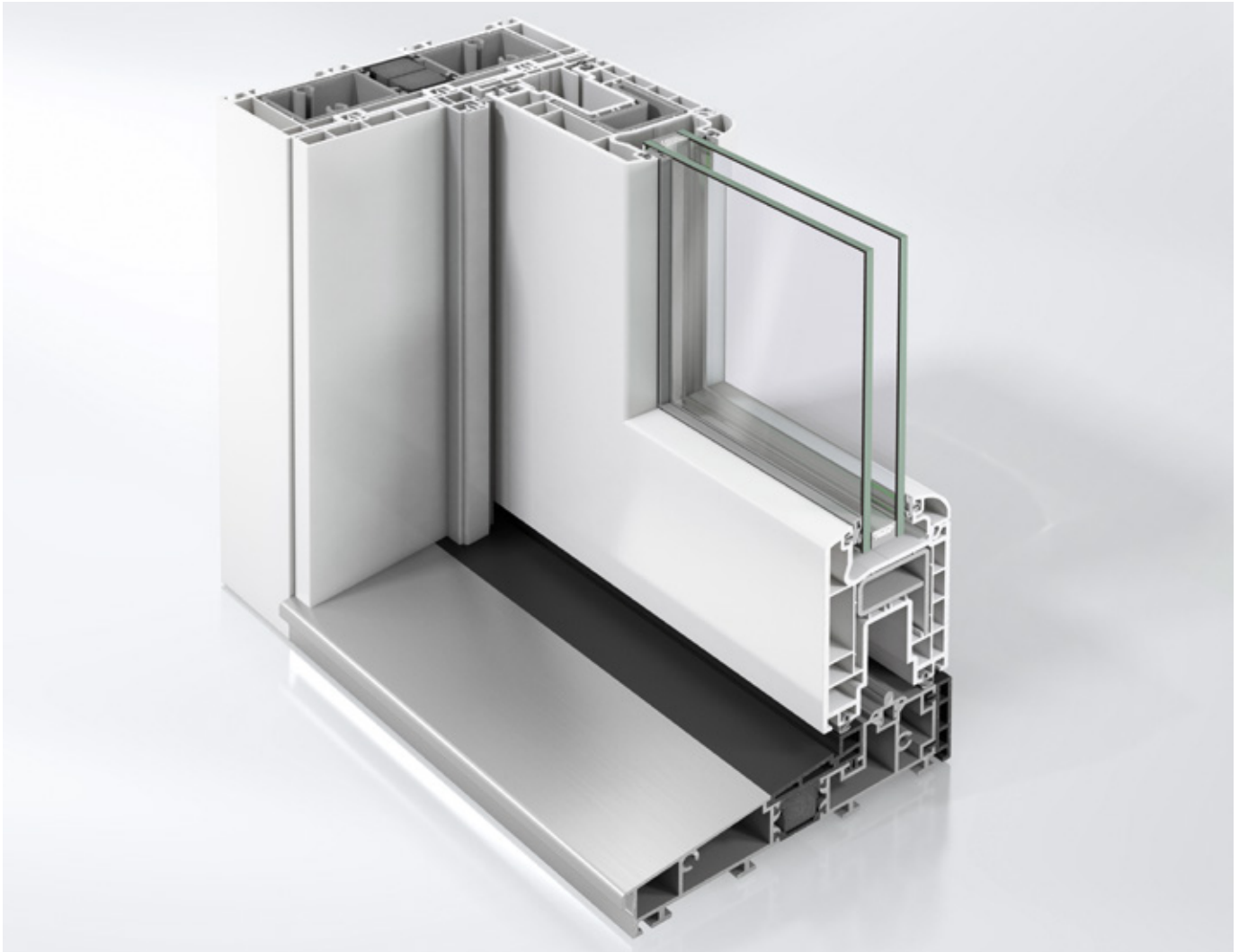
A complete system will be available from the sales launch. Different unit types with fixed and moving vents can be used immediately as single and double-track versions. This means more flexibility in fabrication and allows all customer wishes to be fulfilled.



Schüco LivingSlide inside view

Schüco EasySlide

Flexible and functional lift-and-slide doors can easily be achieved with the Schüco EasySlide system. The series achieved excellent thermal insulation values as well as maximum security to RC2.



Product highlights

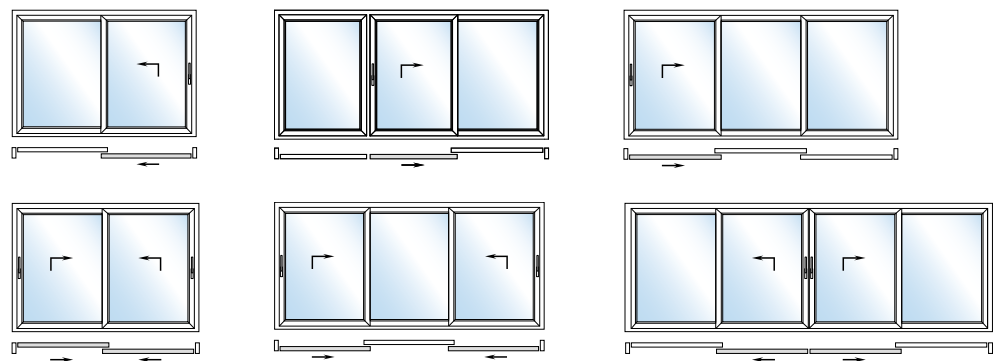
- Excellent thermal insulation thanks to the basis of a 5-chamber system with optimised threshold and frame trim construction
- A variety of opening types are possible
- High level of design flexibility thanks to different surface finish options
- Level transition to the outside for easy-access construction
- Use of triple glazing possible for glass thicknesses of up to 40 mm
- Very good stability for vent weights up to 300 kg

Schüco EasySlide is based on the Schüco Corona CT 70 system. The lift-and-slide frame trim profile design with a basic depth of 167 mm and the lift-and-slide vent frame construction of 70 mm provide the excellent insulation values. In the area of the glass edge seal, the glass edge cover of 18 mm guarantees minimal heat losses. Gaskets made of EPDM rubber are machine-rolled in the factory and offer a long service life and absolute functional security for the unit.

Not only is the Schüco EasySlide lift-and-slide door thermally well insulated, it also has a high level of system reliability. Four screw ports in the aluminium reinforcement and the threshold ensure a high level of unit stability and resistance to torsion in the frame construction. The range of handles tailored to the Schüco window and entrance door handles rounds off the uniform design.

Opening types

Double, triple and quadruple-vent units can be made from the Schüco EasySlide profile system. The two-part version offers you a choice of one moving and one static vent or two sliding units. The three and four-part versions provides a large opening through the middle or at the sides.



Technical information	Schüco EasySlide
Dimensions	
Width of outer frame	167 mm
Width of vent frame	70 mm
Possible glazing thickness	6 mm – 40 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	U_f value up to 1.5 W/(m ² K)
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	$R_{w,P} = 43$ dB
Burglar resistance in accordance with DIN EN 1627	RC2
Air permeability in accordance with DIN EN 12207 (Class)	4
Watertightness in accordance with DIN EN 12208 (Class)	6A
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C2 / B2
Mechanical loading in accordance with DIN EN 13115 (Class)	4
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	2
Operating forces in accordance with DIN EN 13115 (Class)	1

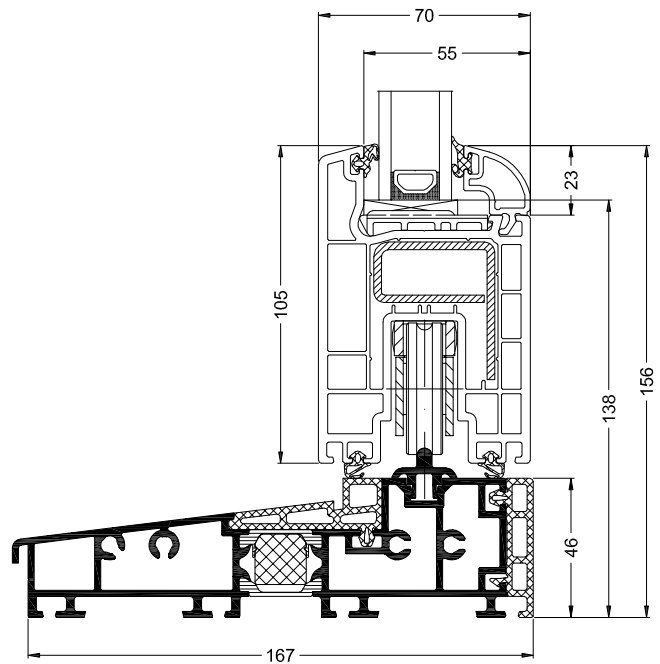
* Dependent on profile and glazing

** Dependent on profile



Fabrication benefits

- EPDM gaskets rolled in the factory
- Due to a special, patented technology for welding the profiles of the vent frame, the gaskets do not require any additional processing
- Main and supplementary profiles are supplied cut to the optimum length
- Installation of lift-and-slide roller carriages without the need for time-consuming machining
- Four screw channels guarantee quick installation and maximum stability of the frame construction

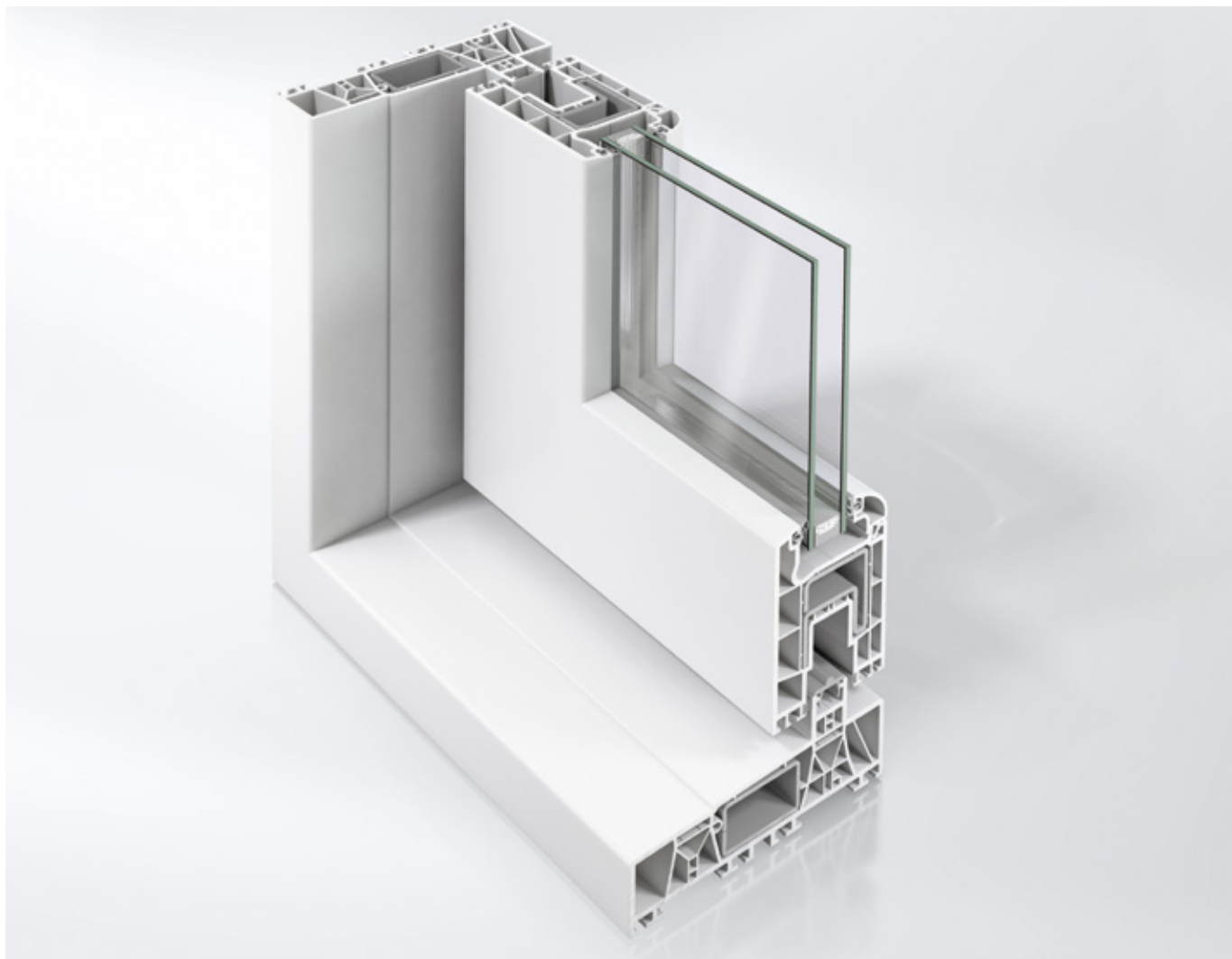


Section detail Schüco EasySlide Scale 1:2,5



Schüco Corona S 150

The Schüco Corona S 150 PVC-U sliding system is based on the Schüco Corona CT 70 series and can be used as balcony, patio or conservatory doors.



Product highlights

- Excellent thermal insulation thanks to the five-chamber design
- EPDM gaskets machine-rolled in the factory for optimum protection against the wind, cold and moisture
- Aluminium interlock for increased burglar resistance
- High level of design flexibility thanks to different surface finish options
- A variety of opening types are possible
- Combined opening and closing function for the handles

The Schüco Corona S 150 sliding door system offers excellent thermal insulation thanks to its ingenious construction. The increased glass edge cover and the continuous PVC-U outer frame in particular reduce heat loss. Two brush seals provide increased weather-tightness for the unit as well as protection against draughts, the cold and moisture.

The Schüco Corona S 150 system allows sliding doors with vent weights up to 250 kg to be achieved too. The perfectly dimensioned reinforcing profiles thereby guarantee maximum stability and durability while being easy to use.

At the same time, Schüco Corona S 150 offers narrow face widths for maximum light penetration. And, because of the special profile construction, there are no obstructive tracks, even in units with fixed fields. The flush appearance on the inside and outside creates a modern, contemporary design. The sliding handles are coordinated with the window and entrance door handle range in order to provide the right look. In addition, the profiles or locking components can be screwed to an optional steel flat.

Technical information	Schüco Corona S 150
Dimensions	
Width of outer frame	150 mm
Width of vent frame	70 mm
Possible glazing thickness	6 mm – 40 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_i = 1,6 - 1,8 \text{ W}/(\text{m}^2\text{K})$
Air permeability in accordance with DIN EN 12207 (Class)	3
Watertightness in accordance with DIN EN 12208 (Class)	9A
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C3
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	3
Operating forces in accordance with DIN EN 13115 (Class)	1

* Dependent on profile and glazing

** Dependent on profile

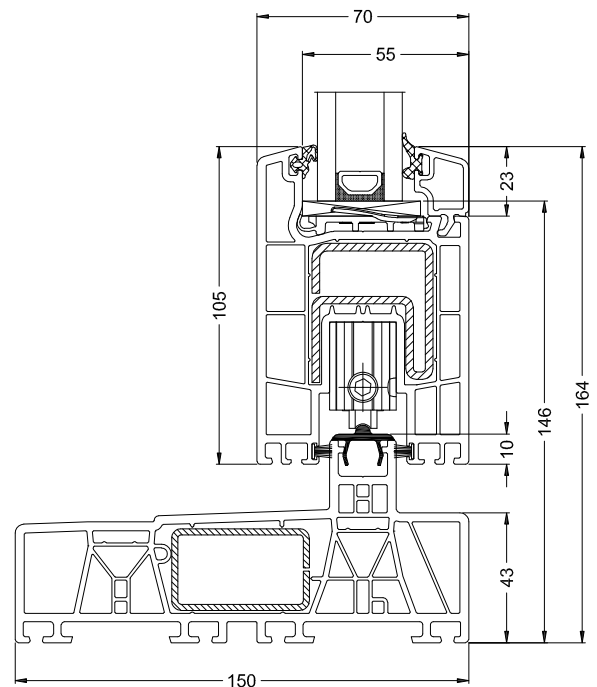
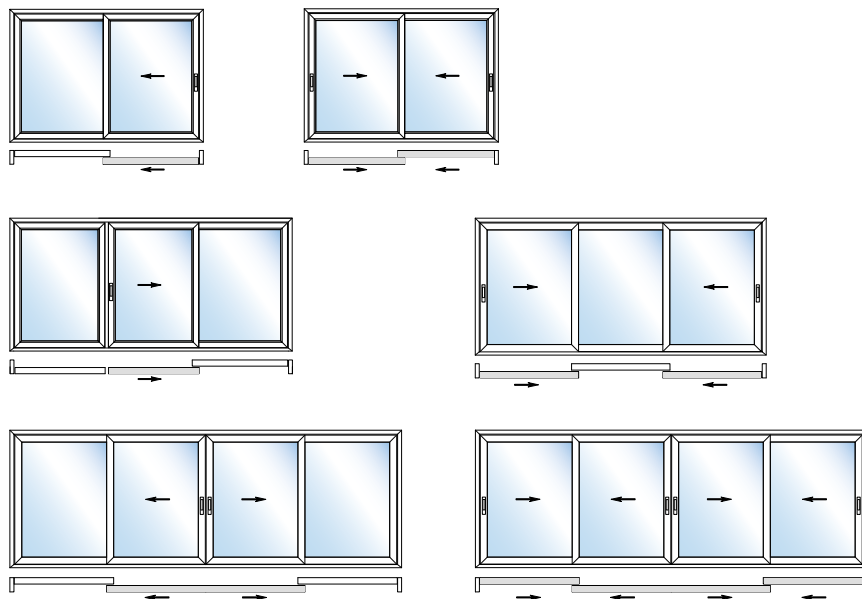


Fabrication benefits

- Economical and efficient fabrication with continuous outer frame construction
- Vent and outer frames can be processed on a processing centre
- The roller carriage can be installed without additional machining
- Outer frame connectors available as an option for the mechanical connection



Opening types



Section detail Schüco Corona S 150 Scale 1:2,5

Schüco Corona S 74

The Schüco Corona S 74 PVC-U system is used as a patio door, porch or partition unit and offers good thermal insulation.



Product highlights

- System reliability thanks to an extensive range of attachment and supplementary profiles
- Different kinds of double, triple and quadruple units available
- A higher level of burglar resistance can be achieved by using the lockable gearbox and the aluminium interlock
- High level of design flexibility thanks to different surface finish options with Schüco AutomotiveFinish and Schüco design foils
- All profiles are supplied with black gaskets as standard

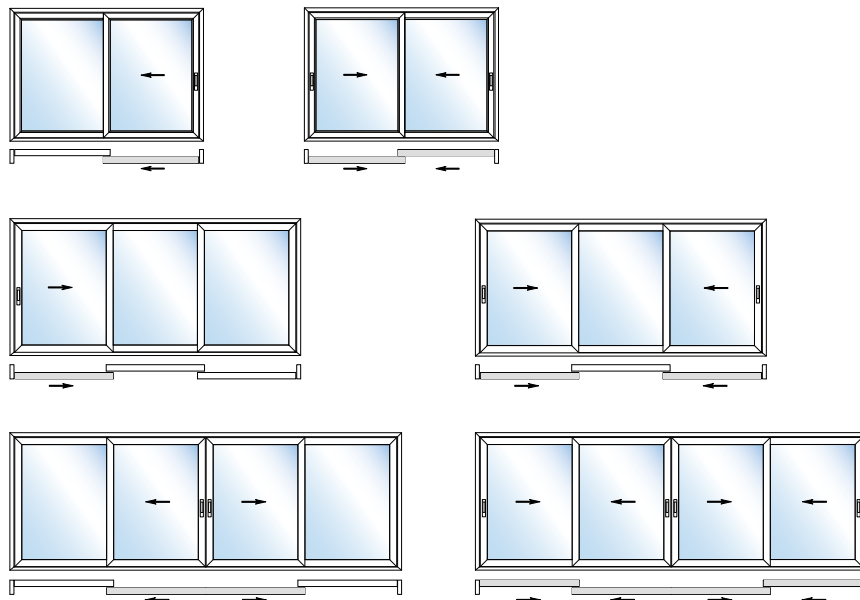
The Schüco Corona S 74 PVC-U sliding door system is based on a 60 mm system. Narrow face widths for maximum light penetration and high levels of flexibility and functionality are the distinctive features of Schüco Corona S 74 PVC-U. The comprehensive range of attachment and supplementary profiles also offers system reliability and unit variability.

A large selection of unit types, including with sidelights, top and bottom lights, and fixed and

sliding vent frames, are possible. The specially matched brush seals guarantee smooth sliding of the sliding vents and ease of operation. For optimum load transfer even with large vent weights, a steel reinforcement is used. A gearbox with anti-lift-out device offers increased security.



Opening types



Technical information	Schüco Corona S 74
Dimensions	
Width of outer frame	74 mm
Width of vent frame	50 mm
Possible glazing thickness	4 mm – 28 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_t = 1,7 - 2,3 \text{ W}/(\text{m}^2\text{K})$
Air permeability in accordance with DIN EN 12207 (Class)	3
Watertightness in accordance with DIN EN 12208 (Class)	7A
Resistance to wind load in accordance with DIN EN 12210 (Class)**	C1 / B2
Resistance to repeated opening and closing in accordance with DIN EN 12400 (Class)	2
Operating forces in accordance with DIN EN 13115 (Class)	1

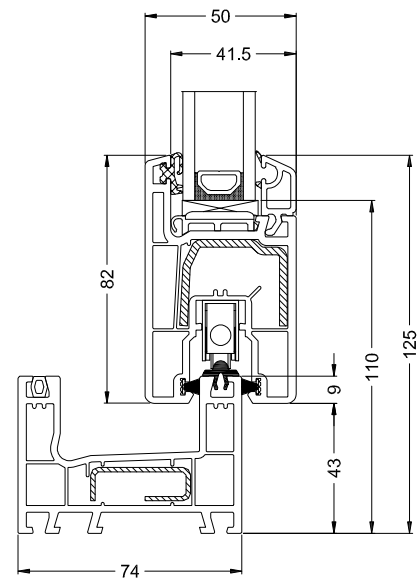
* Dependent on profile and glazing

** Dependent on profile



Fabrication benefits

- Sliding vents with glazing rebate gasket co-extruded in the factory and with a rolled-in brush seal
- Stock profile lengths designed to minimise cutting waste
- Small number of parts for efficient fabrication, simplified ordering and minimised warehouse storage
- Gearbox machining for standard handle only required through PVC-U
- Steel reinforcements with lock recesses for the use of lockable gearboxes
- The roller carriage can be installed without additional machining



Section detail Schüco Corona S 74 Scale 1:2,5



Schüco Corona S 74 inside view



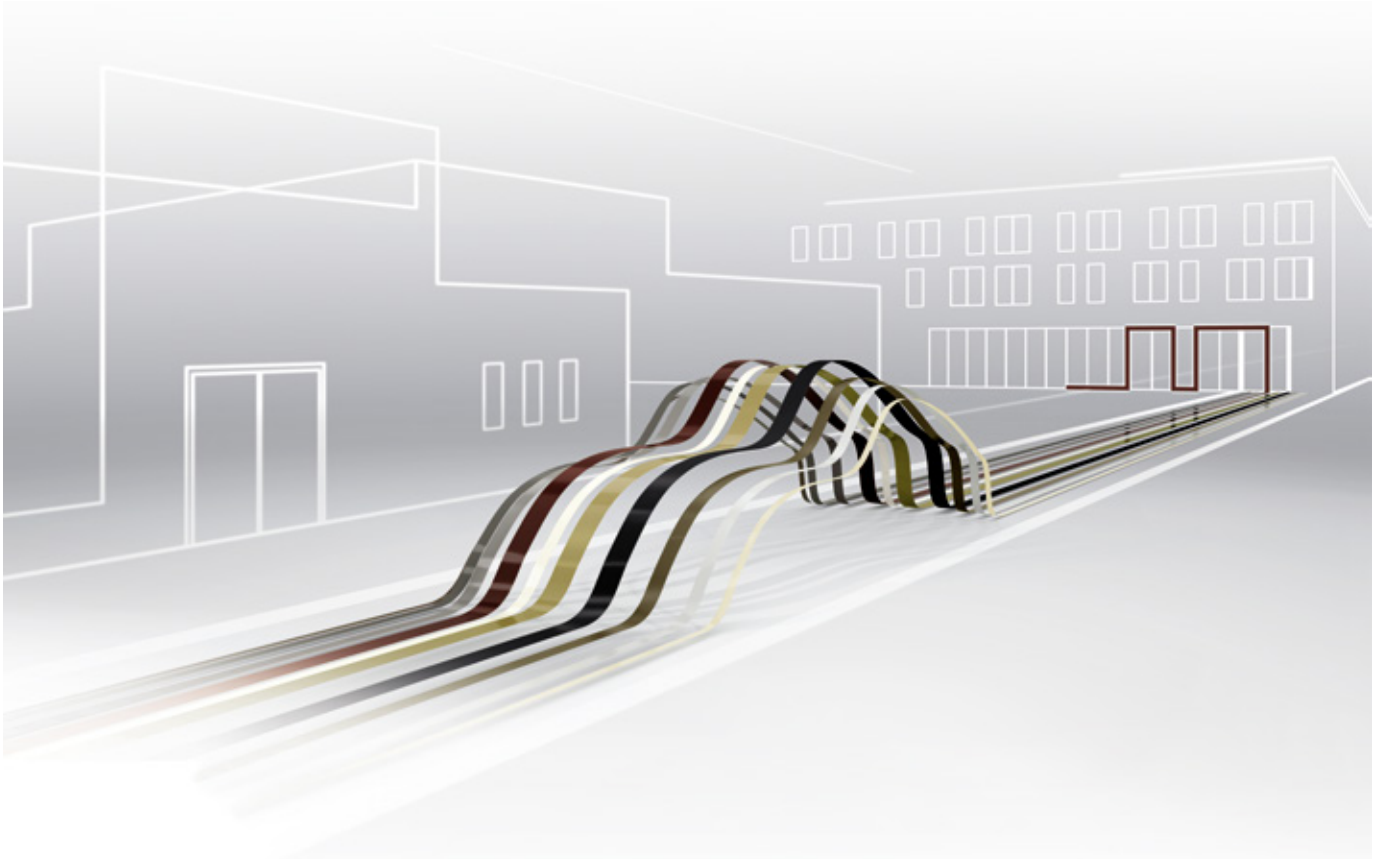
Surface finishes

72

- 74 Schüco AutomotiveFinish
- 76 Schüco TopAlu
- 78 Schüco UnlimitedFinish

Schüco AutomotiveFinish

Schüco PVC-U systems are finished with a very special metallic look thanks to the exclusive Schüco AutomotiveFinish surface finish technology.



Product highlights

- Exclusive metallic colours for Schüco PVC-U systems
- Colour application process for outside and inside
- Optimum properties in terms of abrasion, permanent colour stability, and resistance to chemicals and environmental influences
- Method that conserves resources, promoted by the Deutsche Bundesstiftung Umwelt (German Environment Foundation, DBU)
- RAL-tested surface finishes

Working closely together with a leading supplier for the automobile industry, Schüco has managed to give PVC-U windows and doors a unique shine, creating exclusive metallic colours based on paints used for cars. The use of special colour pigments and a high degree of gloss, which was formulated individually for each colour, result in a particularly high-quality look.

With the innovative Schüco AutomotiveFinish fittings technology, windows, doors and accessories can thereby be designed tone-on-tone. Extensive studies and tests show that Schüco AutomotiveFinish is very weather-resistant and colourfast over a long period of time. Profiles coated with Schüco AutomotiveFinish are also extremely dimensionally stable when

there is intense solar radiation. Furthermore, it has a high resistance to chemicals and environmental influences as well as wear resistance. Schüco AutomotiveFinish shines in other ways too. The production process conserves resources and is environmentally friendly, while energy consumption during production is much lower compared to other coating methods.

The fabrication process of PVC-U profiles with Schüco AutomotiveFinish resembles that of foiled profiles.

Schüco AutomotiveFinish

Colour range for use inside and outside



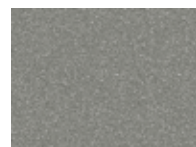
Metallic Black



SAF-DB 703



SAF-DB 703 Line



SAF-RAL 9007



SAF-RAL 9006



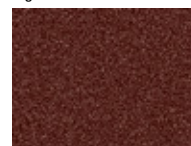
Light Silver



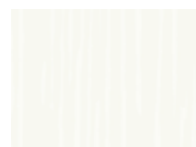
SAF-RAL 140-M



Deep Bronze



SAF-RAL 350-M



White Line

Interior design collection



Cream Line



Copper Effect

Schüco TopAlu

PVC-U windows and doors with external aluminium cover cap perfectly combine the benefits of the two materials of PVC-U and aluminium.



Schüco TopAlu corner view with butt joint



Schüco TopAlu corner view, mitre cut

Schüco TopAlu combines the excellent thermal insulation, weathertightness and low maintenance of PVC-U units with the particularly high-quality, diverse look and high level of resistance of aluminium surfaces. The aluminium cover cap is fixed to the outside of the profile using simple clip-on technology and can be coated or anodised in almost all colours.

The material is also particularly resistant to environmental influences. Schüco TopAlu is available for Schüco LivIng Alu Inside, Schüco LivIng, Schüco Corona CT 70, Schüco ThermoSlide, Schüco LivIngSlide and Schüco EasySlide systems.



Product highlights

- Efficient fabrication and simple clip-on installation
- Supplied with coating
- Allows the perfect integration of PVC-U units in aluminium façades
- First-class design options for the aluminium surface
- Colour variation between outer frame and vent frame possible



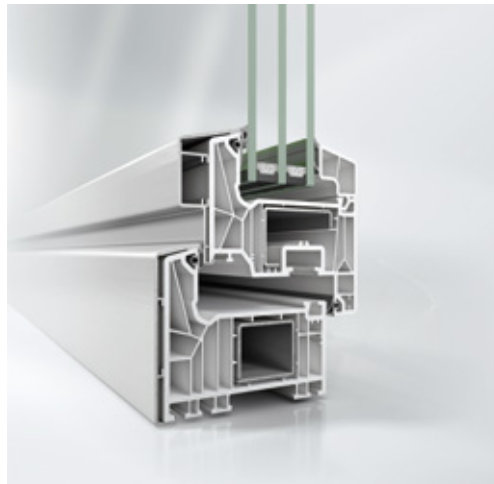
NEW!

As an extension of the variety of designs in the Schüco Living system, there are three new aluminium cover caps for vent profiles, which each create a unique look.



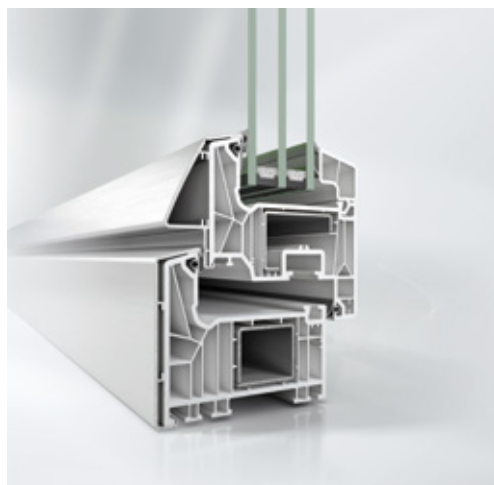
Contour type: Pure

These create a flush appearance between the outer frame and vent frame, resulting in a virtually flat surface.



Contour type: Viva

This cover cap is semi-rebated. This creates a narrow rebate between the outer frame and vent frame, emphasising the modern design.



Contour type: Vision

For this contour type, a cover cap was developed which meets the most exacting customer requirements with its bevelled design. The shadow gap is an additional visual highlight.

Schüco UnlimitedFinish

The façade's colour is really eye-catching. The Schüco foil range offers myriad head-turners which make PVC-U windows and doors even more attractive.



Residential development, Istanbul, Turkey

With a very extensive colour range, Schüco brings plenty of colour to the world of PVC-U windows and doors. The colour spectrum of RAL-certified, high-quality design foils ranges from classic white to vibrant shades. Finely textured woodgrains are also available. Windows and doors can be designed in an unlimited range of colours, while the decorative

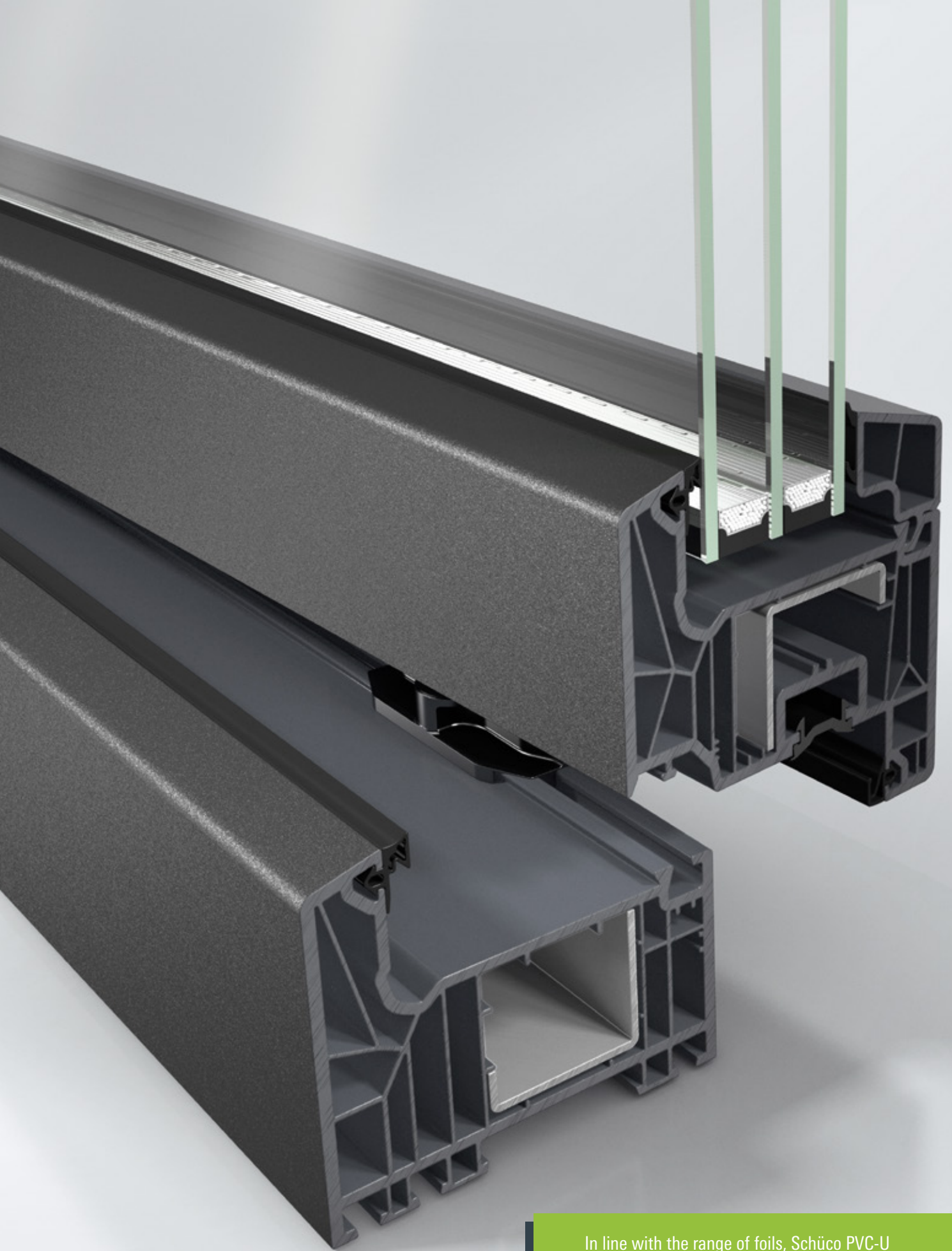
foils are fade-resistant, weather-resistant and tried and tested.

The quality of the foils is monitored and the associated production processes are carried out in accordance with RAL-GZ 716/1 and they are regularly subjected to a test procedure over a preassigned period of time.



Product highlights

- Range of standard and special foils with more than 200 single colours and woodgrain finishes.
- Uniform colour concept for all Schüco PVC-U window, door and sliding systems
- Rapid availability of standard foils
- Minimum delivery quantity: 1 x 6 m profile



In line with the range of foils, Schüco PVC-U systems are available in a range of different profile base material colours.



Fittings systems

80

- 82 Schüco VarioTec
- 84 Schüco VarioTec NI
- 85 Schüco VarioTec Air
- 86 Schüco MultiTec
- 88 Schüco sliding fitting
- 89 Schüco lift-and-slide fitting
- 91 Schüco sliding side-hung fitting
- 92 Schüco slide-and-ventilation fitting
- 93 Schüco SoundGuard

Schüco VarioTec

With the Schüco VarioTec window fittings system, windows, fittings and handles combine to form a fully compatible system which is unique on the market in this form.



NEW RC2 SOLUTION AVAILABLE FROM THE 3RD QUARTER OF 2018
A minimal number of components simplifies fabrication of units with resistance class 2 (RC2).



Product highlights

- Burglar resistance to RC2
- ift-tested
- Load-bearing capacity of up to 130 kg (for the standard version)
- Suitable for construction of all unit types, including special shapes
- Minimal maintenance
- Hinge side with standard and feature design
- Concealed fittings have attractive design in black and silver
- Visible fittings components are available powder-coated in white, black, cream white, stainless steel look and brass (for the design option)



Fabrication benefits

- Small number of parts means minimised warehouse storage and reduced storage costs
- Efficient fabrication
- All parts can be clipped in place and fixed in centre
- Simplified installation by means of corner and turn/tilt mechanism pivot that is flush with the vent
- Symmetrical drilling pattern for corner and turn/tilt mechanism pivots
- Environmentally friendly reusable packaging
- Flexible and efficient logistics concept

Schüco VarioTec is fittings technology at the highest level. The modular fittings system is the result of a development partnership with a leading fittings manufacturer. The unique combination of robust, tried-and-tested steel fittings components and locking bars made from PVC-U was tested in multiple ways and tested for everyday use under the most rigorous conditions in all individual components.

Special construction shapes, such as round arch or shaped windows, can also be fabricated easily with minimal installation effort.

Schüco VarioTec stands for top quality and functionality. The individual security concept guarantees burglar protection to resistance class 2 (RC2).

NEW!



COMFORT HANDLES FROM THE 2ND QUARTER OF 2018

A special handle with an extended operating lever has been developed for installation of the operating handle on the lowest window frame.

Schüco VarioTec NI

Schüco VarioTec NI combines timeless design with user-orientated technology and versatile functionality.



Schüco VarioTec NI is based on the Schüco VarioTec window fittings system. Where large-scale formats with maximum transparency and increased vent weights are required, the fully concealed mechanical Schüco VarioTec NI fitting meets these demands.

The fittings option also provides impressive clean lines – without visible hinges or corner pivots. This is visually very appealing and also makes it easier to clean the window units.

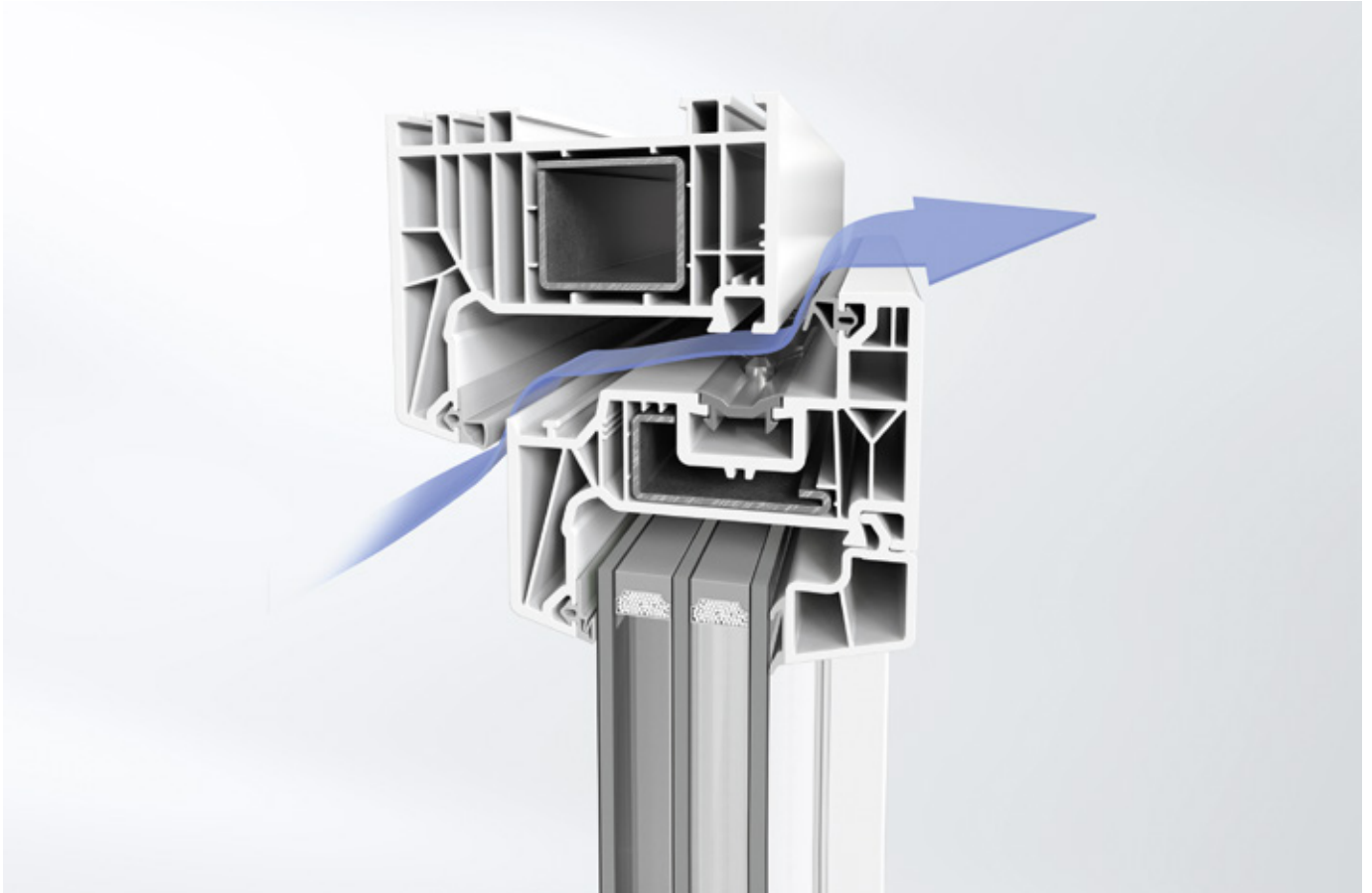


Product highlights

- Burglar resistance to RC2
- ift-tested
- Load-bearing capacity up to 150 kg
- Opening angle up to 100°
- Minimal maintenance
- Attractive design in black and silver
- 100 % compatible with Schüco VarioTec

Schüco VarioTec Air

The Schüco VarioTec Air window fitting combines state-of-the-art fittings technology with an innovative ventilation option.



The Schüco VarioTec Air system enhancement implements the principle of crack ventilation without affecting burglar resistance. With the new technology, the windows are moved in parallel by a mere 6 mm. The continuous gap allows fresh air inside. The benefit of this is that the narrow ventilation opening cannot be seen from the outside and retains all the

properties of a closed window with regard to security. The supply of fresh air is considerably more efficient and uniform, with no draughts. The slower inflow allows the air to warm up quicker, avoiding additional loss of ventilation energy.



Product highlights

- Burglar resistance to RC2
- ift-tested
- Improved sound reduction and weather protection compared to an open window
- Protection against insects and protection for pets
- 100 % compatible with Schüco VarioTec

Schüco MultiTec

The Schüco door fittings system includes all the components necessary for fabrication of PVC-U entrance or side entrance doors – from the standard solution and tested system door through to RC2 design.



Product highlights

- Burglar resistance to RC2
- Possibility of automatic locking and unlocking without using a key
- Use a fingerprint to open the door without a key (in conjunction with the electric lock)
- Locks with multi-point locking can be implemented with up to 5-point locking
- Different designs available for handles and hinges
- Small number of parts for simplified fabrication and minimised warehouse storage

Wide range of handles

The Schüco handle range for entrance and side entrance doors includes different door handles. Schüco offers the ideal solution for different security requirements as well as for emergency exit doors in accordance with EN 179, with a wide choice of colours and designs too. The new generation of handles is tailored to the design of the Schüco window handle, thereby forming a visually harmonious unit for operating units.

Locks and locking points

The security range from Schüco comprises different types of locks, to ensure that the level of burglar resistance in the entrance or side entrance doors can be adapted to meet individual security requirements – from eccentric locks, swing bolt locks and triple-latch automatic locks through to electric locks. 3, 4 or 5-point locks can also be implemented with the Schüco lock range. The optional integrated automatic contact provides even more security. It is concealed and designed without an additional (second) lock cylinder. The automatic contact limits the opening of the door to a gap, in order to prevent unauthorised people from gaining immediate access.

Tested hinges for doors

Schüco door hinges are characterised by secure functionality and an attractive design. In addition to simple turn hinges for doors, the Schüco hinge range offers system-tested door hinges that are tailored to the respective profile system with different designs and the right appearance – from standard surface-mounted door hinge to modern barrel hinge.



Schüco range of handles for entrance doors

Schüco sliding fitting

Schüco sliding fitting includes all components, such as roller carriages, profile cylinders, gearboxes, handles and all accessories that make up a modern and functional sliding door fitting.



The Schüco fittings system for sliding doors offers the perfect solution for all unit types of the Schüco Corona S 150 and Schüco Corona S 74 systems. Height-adjustable roller carriages enable easy operation even with increased vent weights. Increased security up to

resistance class 2 (RC2) is possible through the use of strike plates, anti-lift-out devices and self-adhesive drill protection for gearboxes. In addition, the sliding handles are also available as a lockable version.



Product highlights

- Design details for simple and functional sliding
- Handle design adapted to match the Schüco window and door handle design for an attractive, uniform look
- Handles are available in attractive colours
- Can be constructed to resistance class 2 (RC2) with Schüco Corona S 150



Fabrication benefits

- Small number of parts for simplified fabrication and minimised warehouse storage
- Compatible fittings system for the Schüco Corona S 150 and Schüco Corona S 74 sliding door systems simplifies fittings installation
- Wide range of unit types can be constructed

Schüco lift-and-slide fitting

Schüco lift-and-slide fitting is specifically designed for the construction of lift-and-slide door systems. Schüco lift-and-slide fitting offers simple and efficient fabrication paired with maximum user comfort, functionality and durability.



Schüco offers a fully compatible fittings system for the following lift-and-slide door systems: Schüco ThermoSlide, Schüco LivingSlide and Schüco EasySlide. This means a small number of parts, which results in simplified fittings installation and ordering as well as minimised warehouse storage. The fittings system guaran-

tees added comfort and accessibility when using different lift-and-slide systems, even with very large vent weights up to 400 kg. Different types can be constructed with the Schüco lift-and-slide door fittings, including double, triple and quadruple-vent units with and without fixed lights.



Product highlights

- Schüco fittings system includes all components for complete fittings installation
- Design details for simple and functional sliding
- Handle design adapted to match the Schüco window and door handle design for an attractive, uniform look
- Also designed for large vent weights
- Uniform fittings system for all lift-and-slide door systems offers a small number of parts, simplifies installation and minimises warehouse storage
- Comfortable and easy to operate for decades
- Can be constructed to resistance class 2 (RC2)
- A range of unit options available

Construction details

The Schüco lift-and-slide door fitting is designed such that the low installation depth of the fittings components allows them to be installed in PVC-U profile systems with narrow face widths. This perfectly fulfills the architectural requirements for large glass areas. With many different features, the Schüco lift-and-slide fitting can be adjusted to suit different requirements. Therefore, to ensure optimum load transfer, height-adjustable roller carriages for stroke compensation are available in addition to the basic roller carriages.

The result is simple sliding. Furthermore, in addition to the standard handle, the handle range also offers a flat handle for the outside for use behind roller shutter systems. Alternatively, a flush pull grip can be attached to the outside of the lift-and-slide door.

Convenient opening and closing

The Schüco SmartClose, Schüco SoftHandle and Schüco SoftLift systems provide additional comfort. Schüco SmartClose is a modern closing system for lift-and-slide doors. The user merely slides the moving vents of the lift-and-slide door to close them.

The Schüco SmartClose installed in the top vent frame collects it, slows it down and automatically closes it slowly into the outer frame. The user just locks the door by moving the handle. The concealed Schüco SoftHandle gearbox damper thereby prevents the handle from springing back in an uncontrolled way when the vent is opened and closed, thereby offering significantly increased user comfort. For easier opening of the vent, Schüco SoftLift supports the lifting process of the sliding vent, which noticeably reduces the operating forces required.



Private home, Netphen, Germany

Schüco sliding side-hung fitting

With the new Schüco sliding side-hung fitting, the living space can be easily opened up – a generous opening that connects the inside space with the outside world.

NEW!



AVAILABLE FROM 3RD QUARTER OF 2018

The new Schüco sliding side-hung fitting allows the living space to be opened up easily to the outside. By using fewer additional fittings, windows and window doors made of the Schüco Corona CT 70 system can be manufactured as sliding side-hung elements. With just a few handles, the vent units are

lifted on both sides and turned out of the frame. This creates a large opening for the living space. With the new Schüco sliding side-hung fitting, various unit types and sizes can be used with a high number of vents. The new fitting can be used for inward and outward-opening units.



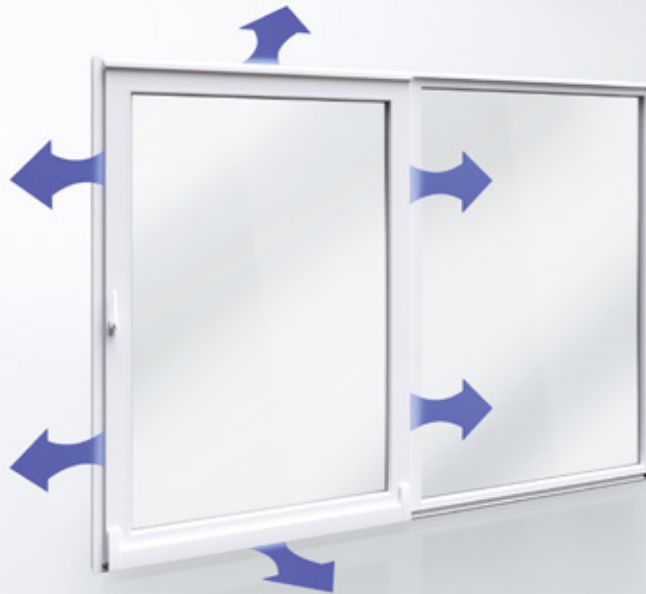
Product highlights

- Can be used for the Schüco Corona CT 70 PVC-U system
- Large elements can be constructed with a different number of vents
- Easy to operate even with increased vent weights
- Simple fittings installation for new units

Schüco slide-and-ventilation fitting



Schüco slide-and-ventilation fitting is a new kind of ventilation fitting for sliding door systems which extends the range of proven fittings technology to include an innovative ventilation option.



Based on the Schüco VarioTec Air ventilation fitting for windows, the new Schüco slide-and-ventilation fitting was developed specifically for sliding doors. This enables ventilation of living spaces even when the units are virtually closed. The system of crack ventilation is used here. The sliding vent is moved in parallel by approx. 6 mm on all sides. This allows an even amount of fresh air into the living space via all four sides of the sliding vent, without creating draughts. It is predominantly used for dehumidification purposes and minimises the risk of mould growth. The crack ventilation strike plate holds the vent securely in the ventilation position and locks it in the closed position. Schüco slide-and-ventilation fitting

also provides burglar resistance to resistance class 2 (RC2), even while providing crack ventilation, as the ventilation position is barely detectable from the outside. The Schüco ventilation sliding fitting is also certified and approved by the SKG Institute.

Other construction details offer clear benefits. The innovative comfort feed automatically moves the vent into the closed position. The intelligent design of the stays guarantees harmonious, quiet closing and opening of the vent. The new stay and running gear design virtually eliminates incorrect operation too.



Product highlights

- Burglar resistance up to resistance class 2 (RC2)
- Improved sound reduction and weather protection compared to an open window
- Prevention of structural damage and mould growth thanks to continuous and secure basic ventilation
- Protection against insects and protection for pets

Schüco SoundGuard

NEW!

The decentralised alarm system is the perfect supplement to Schüco PVC-U window units.



Schüco SoundGuard, consisting of a window alarm and a glass breakage alarm, gives a reliable warning of unauthorised access to the living space. The modular alarm system is easy to install and blends in harmoniously with the window appearance. The window alarm is directly mounted on the handle. It reliably

detects when the window or window door is opened by force and responds with a red signal light and a loud signal tone. The glass breakage alarm responds to vibrations in the window pane. If the glass is smashed by force, the glass breakage alarm transmits a loud alarm sound.

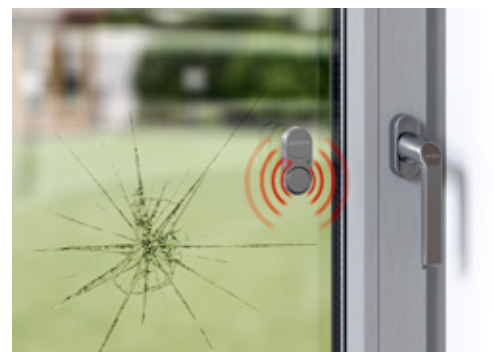


Product highlights

- Additional security around the clock – can also be retrofitted
- Particularly loud alarm sound deters and alerts
- Decentralised, modular system with independent functions
- Available in white, black and F9 (silver)
- Simple, time-saving installation



Schüco SoundGuard window alarm



Schüco SoundGuard glass breakage alarm



Ventilation systems

94

- 96 Decentralised ventilation solutions from Schüco
- 98 Schüco VentoTherm Advanced
- 100 Schüco VentoPlus
- 101 Schüco VentoAir⁺

Decentralised ventilation solutions from Schüco

Schüco ventilation systems – comfortable indoor climate and high level of comfort for an optimum living and working environment.

Factors which affect the indoor climate



The quality of the ambient air is a decisive factor in the health, well-being and performance of the people in a building. If it deteriorates, e.g. due to the users themselves and their activities or due to emissions from the building and its equipment, this may lead to headaches, lapses in concentration or tiredness,

amongst others. Regular, adequate ventilation is therefore very important, and the quality of the air introduced from outside plays a central role. Pollution in the immediate surroundings due to traffic or industry must be taken into consideration, as must biogenic factors, e.g. pollen.

If windows are used in the conventional way in the tilt or turn position to provide ventilation, this has serious disadvantages – noise, particulates and allergenic pollen penetrate the rooms, and around 50 % of the heating energy is lost to the outside.

Achieving an impressive level of energy efficiency whilst exchanging used and moist air has posed an unresolved problem in newbuild and renovation projects, until now. The high level of weathertightness of the building envelope, as well as uncontrolled or insufficient ventilation, lead to a high degree of humidity, which results in both structural damage and health risks.

Schüco offers efficient ventilation systems to suit almost every building project and to meet individual requirements. This optimises energy consumption, the room climate and air quality – all of which are decisive advantages when marketing and managing a property.



Benefits of decentralised ventilation solutions from Schüco

- Integration into windows and façades without installation in the intermediate floor: saves equipment space and storey height, also ideal for renovation projects
- Can be operated individually: high user acceptance
- Room-by-room installation:
 - Simple conversion of rooms for other uses
 - Air inlets and outlets almost invisible
 - No transmission of sound through duct system which connects rooms
 - Fire compartments are not breached
 - Attractive additional business
 - Simple planning, installation and maintenance: no duct system
 - Additional costs can be billed based on consumption

Schüco VentoTherm Advanced

Schüco VentoTherm Advanced is a decentralised, window-integrated ventilation system with incoming air, outgoing air and heat recovery – controlled, room-specific exchange of air without opening the window



Schüco VentoTherm Advanced: how it works



Product highlights

- Integrated humidity and air quality sensor (VOC)
- Automatic adjustment of the air volume flow to the current requirements reduces expensive energy costs
- Can be integrated vertically and horizontally in the façade
- Suitable for almost all types of newbuild and renovation project
- The efficient, multifunctional system solution ensures controlled air exchange, meeting the highest energy efficiency requirements. 80 % heat recovery ensures a high degree of energy savings.

Schüco VentoTherm Advanced is the logical development of the tried-and-tested Schüco VentoTherm ventilation system taking consideration of the increasing requirements for the ventilation of living spaces. With a capacity of up to 60 m³/h in terms of air volume flow and a narrow face width, Schüco VentoTherm Advanced is an efficient solution for use in almost all building types as well as in newbuilds and renovation projects.

Integrated humidity and air quality sensors enable control according to requirements, ensuring an optimum indoor climate. Permanently increased humidity and the formation of mould can thus be reliably prevented. At the same time, Schüco VentoTherm Advanced protects against draughts and keeps insects and pollen out.



Fabrication benefits

- The simple insertion of the ventilator in an add-on profile ensures time and cost-efficient system installation. The fascia on the room interior side is applied by means of a screw-on housing panel
- Different cover profiles for optimum alignment to a variety of reveal widths
- Inspection flap for simple filter replacement without tools and without having to remove the device



Schüco VentoTherm Advanced installation position

Schüco VentoPlus

The Schüco VentoPlus ventilation system is a demand-driven air supply unit which can be installed on the outer frame, on an extension or on a vent profile.



Schüco VentoPlus ventilates rooms precisely to requirements, as a mechanical humidity sensor automatically adjusts the incoming air volume flow, without intervention from the user. This ensures reliable dehumidification of the rooms. No power supply is required. Schüco VentoPlus can also easily be used as an external air inlet in conjunction with shaft ventilation or air extraction systems.



Product highlights

- For removing moisture by means of cross ventilation, taking account of the laws of building physics
- Prevents draughts and keeps insects out
- Automatic and tamper-proof
- Thermal insulation by means of ventilation with the window closed
- Permissible in accordance with EnEV and DIN 1946-6

Schüco VentoAir⁺

The new Schüco VentoAir⁺ is the logical development of conventional window rebate ventilators for Schüco PVC-U windows. Its concealed appearance allows the ventilation module to be inserted in the window so it is barely visible, while it self-adjusts in order to provide the necessary level of ventilation for living spaces by removing moisture to prevent mould.

NEW!



Schüco VentoAir⁺ stands out with its compact construction, which means that, if required, several ventilation modules can be integrated in the optimum position in the top window area. This allows the required quantity of air to be increased. In contrast to standard window rebate ventilators, Schüco VentoAir⁺ is installed independent of fittings components, as the ventilation module is simply clipped into the window in place of the vent overlap gasket. The high-quality engagement technology of the ventilator ensures stability and simplifies installation significantly by dispensing with drill holes and screws.

Thanks to the precise plastic hinge technology, Schüco VentoAir⁺ also detects the slightest air movements and adjusts the air volume flow automatically by means of regulating flaps. These regulating flaps restrict the air flow when there are high wind loads so that draughts are prevented.

By changing the colour to the window gasket colour, black or silver grey, Schüco VentoAir⁺ is barely visible even when the window is open. When the window is closed, the ventilation module is completely concealed.



Product highlights

- Modules are positioned without fittings
- Quick and easy to install
- Barely visible even when the window is open
- Can be used in all Schüco window systems
- Can be easily retrofitted
- ift-tested ventilation module
- Meets the requirements for ventilation of living spaces in accordance with DIN 1946-6 and can be used as an external air inlet for cross ventilation



Accessories

102

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Schüco safety barriers for PVC-U systems

Innovative fix: the new safety barriers from Schüco are connected to the windows in the workshop and simply installed as a complete unit on site. Allowing you to supply tested Schüco systems from a single source.

NEW!



Product highlights

- Three attractive installation types: as a glass or bar safety barrier, or a combination of the two
- Suitable for newbuilds and modernisation projects, particularly in public buildings such as schools or nurseries
- Fulfilment of all statutory security specifications with test certificates and general building approval test certificates, including in accordance with DIN 18008-4 and the ETB guideline
- Compatible with the Schüco LivIng Alu Inside, Schüco LivIng and Schüco Corona CT 70 PVC-U systems
- Can also be used in conjunction with roller shutters

Fabrication benefits

- Prefabricated system components and a reduced number of components result in efficient fabrication
- Considerably reduced installation time on site, as the safety barrier and the window unit can be connected in the workshop and the complete solution is installed on the building site
- Depending on the profile system, the rebate strip, profile anchor or adhesive anchor offer three different concealed fixing options

Versatile aesthetics with highest levels of security

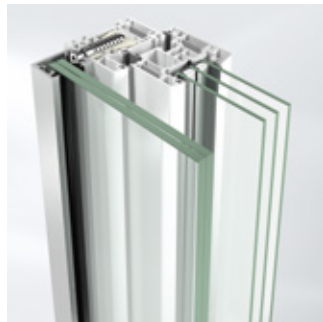
Transparent and therefore unobtrusive glass safety barriers allow unobstructed views to the outside, and at the same time there is no visual interruption to the façade views. Bar safety barriers are the right choice for adding an individual touch to the building. The flexible choice of distances between bars, as well as the option of using and varying stainless steel round tubes and round bars with different diameters, opens up a variety of design possibilities.

Combining the glass and bar safety barriers also make a statement in the façade.

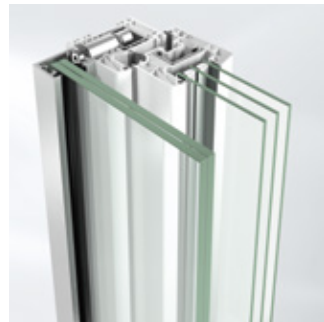
All pilaster, carrier, and edge protection profiles are available in EV1 as standard. Depending on the requirements, they can also be adapted to the individual window colour in all RAL and anodised colours as well as wet paint coatings.

The perfect combination for maximum security

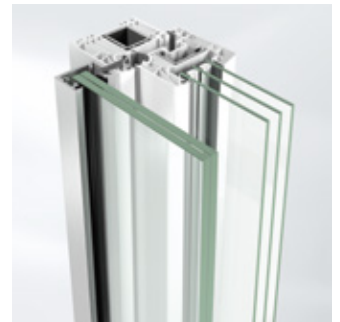
Glass options
Glass thicknesses of 10 to 16 mm



Fixed with adhesive anchor

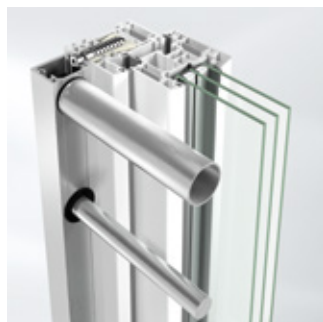


Fixed with profile anchor

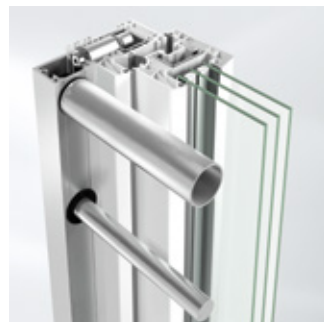


Fixed with rebate strip

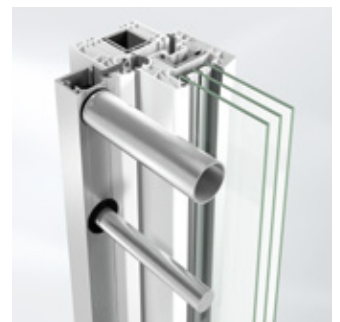
Bar options
Diameter of 12 to 35 mm



Fixed with adhesive anchor

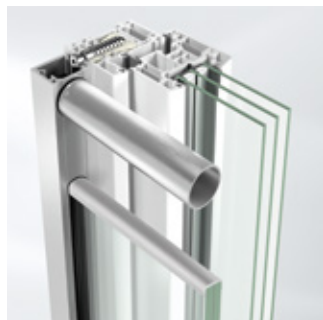


Fixed with profile anchor

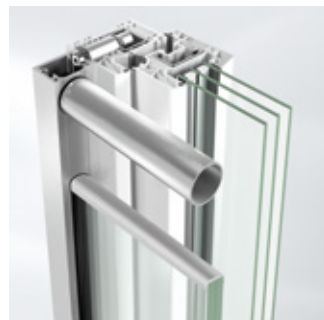


Fixed with rebate strip

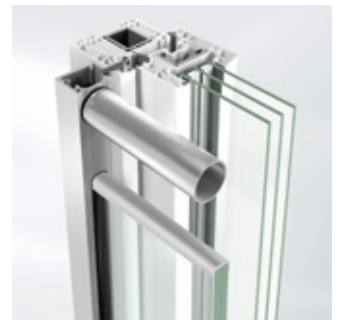
Combined glass and bar options



Fixed with adhesive anchor



Fixed with profile anchor



Fixed with rebate strip

Schüco folding shutters

The Schüco PVC-U folding shutters offer numerous benefits in terms of saving energy, security, sound reduction and room shading, while also serving as an attractive design feature in the façade.



Product highlights

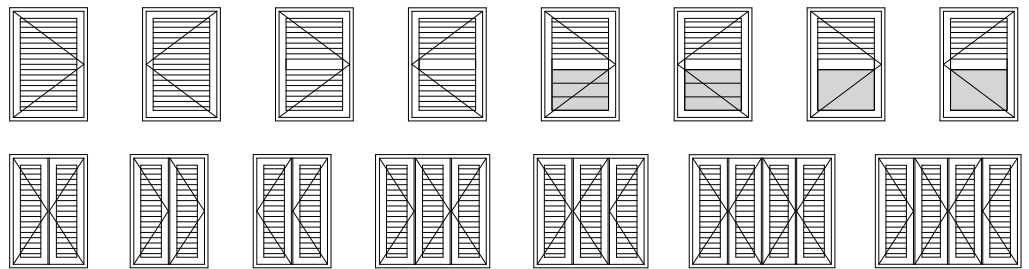
- Thermal insulation in the summer and protection against the cold and the weather during colder seasons
- Additional sound reduction
- Level of light penetration infinitely adjustable for individual rooms
- Low level of maintenance required
- Closed folding shutters provide additional protection against burglars as well as privacy and sound reduction
- Attractive design element for the façade
- Perfectly-sized reinforcement chambers ensure a high degree of stability



Fabrication benefits

- A variety of opening types can be fabricated using a small number of profiles
- Vent and outer frames can also be processed on a processing centre
- Cross bars fitted using screw installation
- Louvre blades fitted using simple clip-on installation
- Almost all building attachment arrangements are possible, due to rebate and reveal extensions
- Panels or sandwich panels can also be used
- Vent frame with and without rebate for use in the reveal or on the masonry
- Suitable for old buildings and newbuilds

Unit overview



Adjustable louvre blades

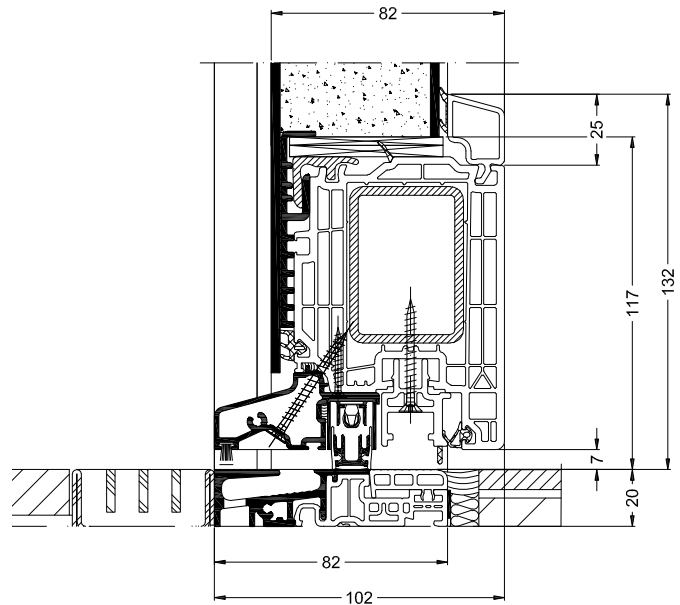
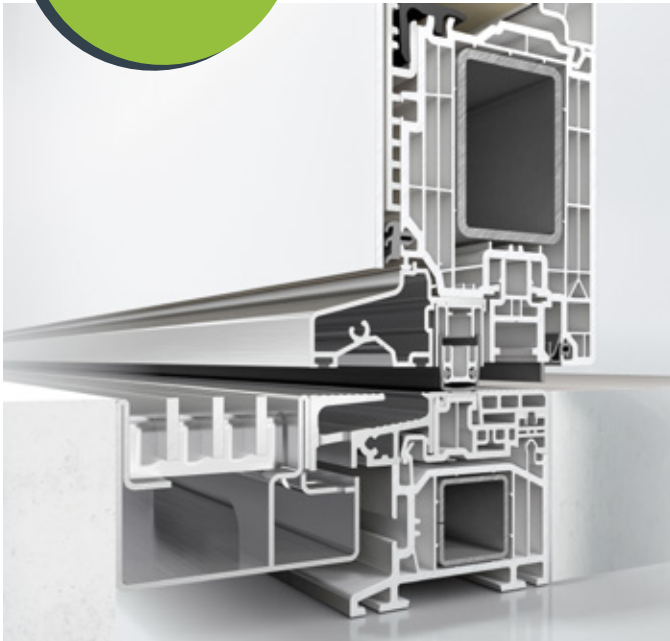


Schüco folding shutters in detail

Easy-access threshold 0 mm



A door threshold with maximum ease of access has been developed specifically for doors in the Schüco LivIng profile range. With an installation height of 0 mm, all requirements for easy-access construction in line with DIN 18040 are met.



Section detail Schüco LivIng with threshold 0mm

The innovative 0 mm threshold can be installed in single-leaf, inward-opening Schüco LivIng entrance and side entrance doors. It is also easy to use leaf-enclosing door infills and Schüco TopAlu. The sophisticated technology offers maximum comfort. Other design highlights offer numerous benefits. For example,

newly developed wind stops guarantee good functionality and durability as well as optimum weathertightness for door units with level thresholds. The use of an automatic threshold gasket made from high-quality silicone with a smooth release mechanism provides optimum weathertightness in the horizontal level.

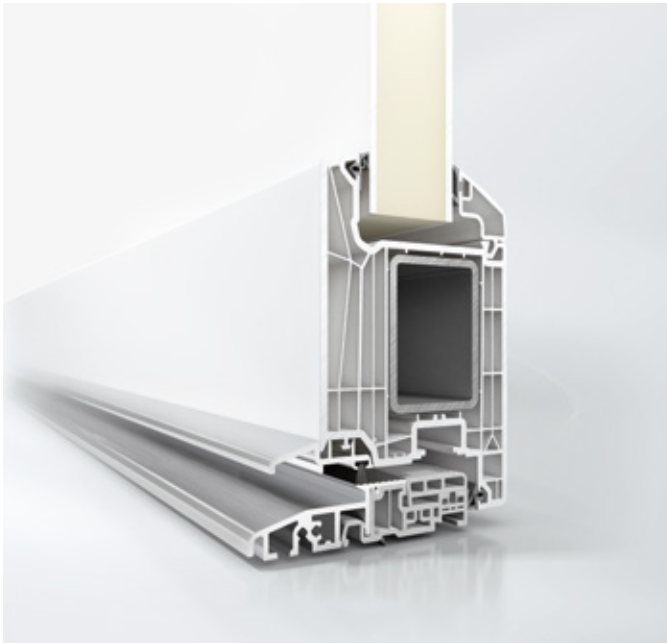


Product highlights

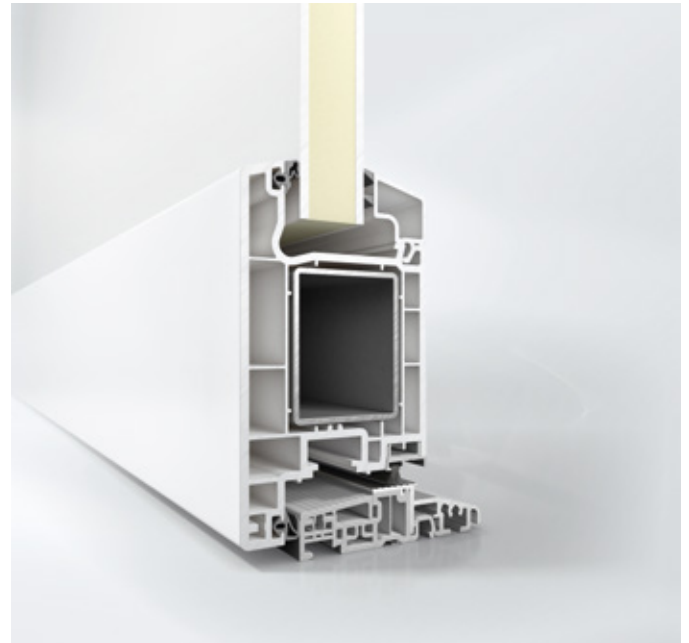
- No threshold and door rebates at the bottom thanks to level access
- All requirements for easy-access living in accordance with DIN 18040 are met
- Threshold bracket available in white and silver grey, wind stops in black and silver grey
- Prefabricated, thermally broken threshold profile
- Class 7A watertightness
- Can be used with standard drainage systems

Combination threshold 20 mm

The combination threshold from Schüco with 20 mm installation height is manufactured in an innovative PVC-U/aluminium composite and offers maximum thermal insulation thanks to a technically sophisticated construction.



Schüco LivIng entrance door, inward-opening



Schüco Corona CT 70 entrance door, outward-opening

The combination threshold can be used for Schüco entrance doors, side entrance doors and window doors and is fixed to the building structure so that it is concealed. Thanks to an additionally integrated locking point within turn/tilt window doors, there is locking on all sides with effective burglar resistance up to resistance class 2 (RC2). In this way, the low installation height of 20 mm meets the requirements for easy-access living.

The outstanding thermal insulation minimises the risk of condensation build-up in the threshold area. The combination threshold also impresses with its attractive appearance. It is available in the following colours: aluminium black/black and aluminium anodised/grey. In addition, the kick plate is offered in a matching colour of black or grey.



Product highlights

- Meets the highest thermal insulation requirements
- Threshold system suitable for easy-access construction in accordance with DIN 18040
- Easy to fabricate
- Can be used for entrance, side entrance and window doors
- Suitable for inward and outward-opening doors
- Can be used in the following Schüco PVC-U systems: Schüco LivIng Alu Inside, Schüco LivIng 82 AS, Schüco Corona CT 70 and Schüco Corona CT 70 Accent

Glazing beads and decorative sash bars

In line with the profile and vent geometries, the various glazing beads and decorative sash bars offer an attractive solution; they are suitable for both modernisation projects and for visual accentuation.

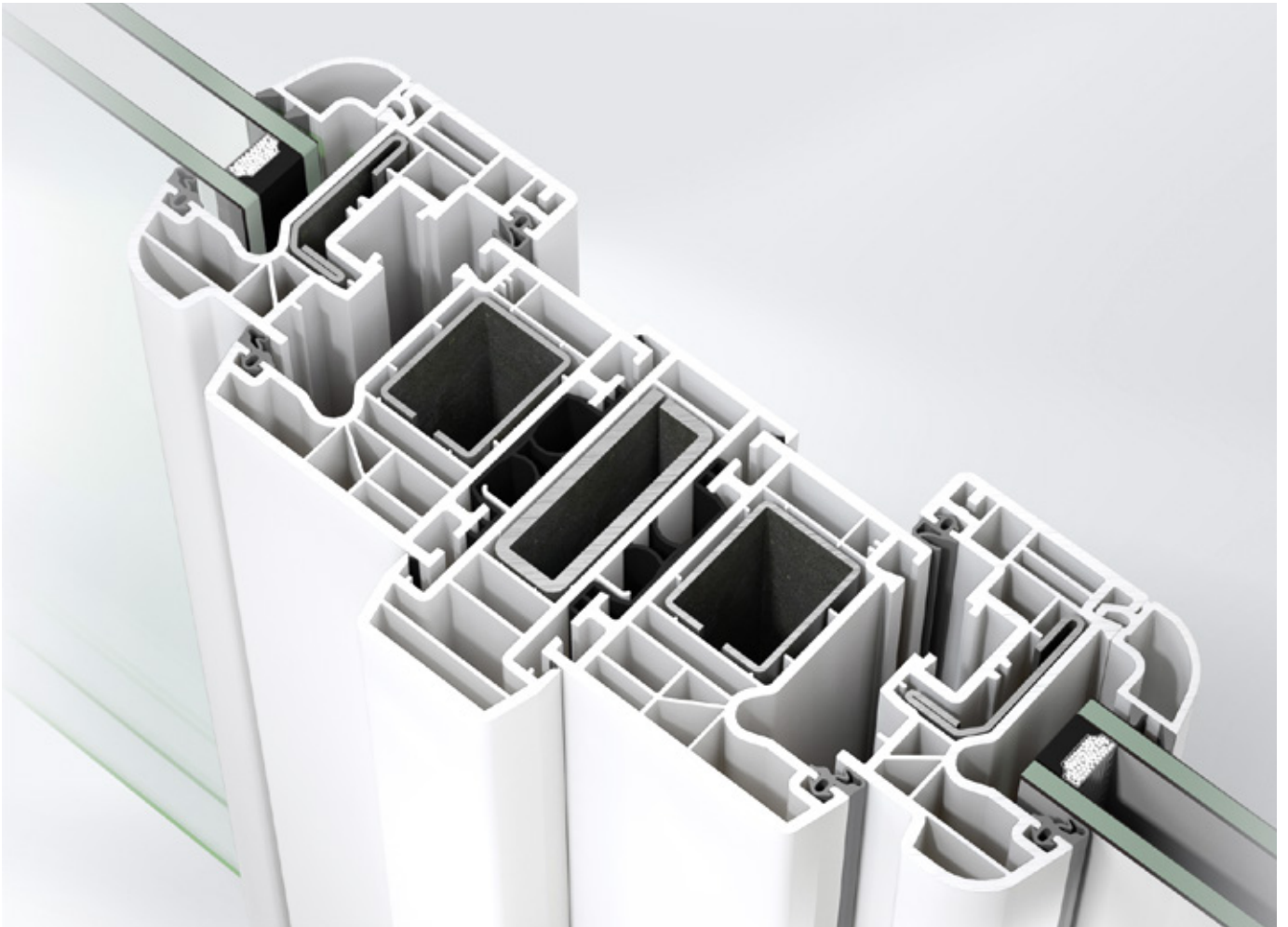


Product highlights

- Wide selection of glazing beads with different contours for the visual design of window and door units
- Depending on the profile system, glazing beads with different heights of 25 mm, 23 mm and 20 mm
- Use of decorative sash bars possible for decorating windows in newbuilds and renovation projects
- Glazing beads and decorative sash bars can be adapted with a variety of design foils to match the window and door appearance

Attachment and supplementary profiles

The range of Schüco supplementary profiles has a wide variety of uses and is compatible with different Schüco systems.



Product highlights

- Minimal number of components due to compatibility with all Schüco systems
- Simple fabrication thanks to sophisticated technology
- The range includes: outer frame extensions, base profiles, window sill profiles, coupling profiles, cover profiles, roller shutter and cladding profiles, flat bar and angled profiles, drip bars and kick plate profiles
- Special solutions for a wide variety of installation situations in renovation and newbuild projects
- Profile construction with optimised chamber geometry for excellent thermal insulation
- Colour design by means of a wide selection of design foils as well as the brilliant Schüco AutomotiveFinish surface finish technology
- Different aluminium cover caps are available to combine with Schüco TopAlu for a variety of profiles



Services

112

- 114 Support during the entire business process
- 116 Schüco PlanSoft
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- 118 Schüco OrderSoft
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- 126 PVC-U machinery

Support during the entire business process

01.

SALES



Schüco partners receive extensive support in acquisitions and consultations – a premium brand, top argumentation for first-class products as well as a variety of advertising media.

- Schüco partner concept
- Lead management
- Sales training
- Brochures
- Reference project app
- Showroom
- Advertising materials
- Corporate MediaCenter
- Marketing Services
- Pre sales

02.

PLANNING



Exclusive planning aids for Schüco partners leave no question unanswered: technical documentation, special software and even personal consultation.

- Technical documentation
- CE documentation
- Tailored software
- Technical Support
- Quick and easy ordering
- Sales Administration

03.

FABRICATION AND INSTALLATION ↘



Schüco partners benefit from an extensive range of machinery, training and technical support.

- Fabrication guidelines
- Schüco machinery
- Machine control
- Machine and application technology
- Training courses
- Installation documentation
- Unit test

04.

AFTER-SALES SERVICES



Partners of Schüco Polymer Technologies satisfy their customers for the long term. In this way, for example, replacement parts are available for decades, are simple to order and are quickly available on site.

- Replacement parts hotline and shop
- Complaints service
- Maintenance kit for PVC-U windows and doors

Schüco PlanSoft

Schüco PlanSoft – the software solution for fast, cost-effective and reliable design and specification of PVC-U windows and doors



Design and specification made easy

Schüco PlanSoft offers a wide range of calculation and display options to design and determine the specifications of your PVC-U windows and doors. Based on the latest regulations and standards, Schüco PlanSoft is the perfect tool to help simplify and enhance your daily work.

The software is available free of charge on the Internet at www.schueco.de/plansoft

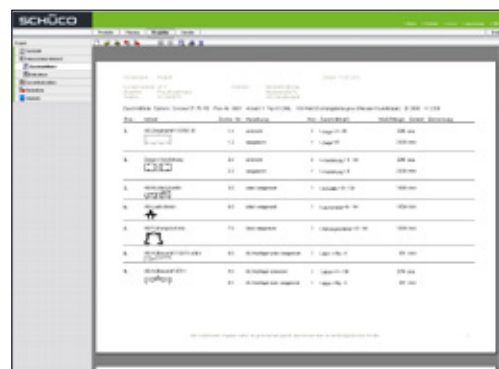


Product highlights

- Preliminary structural calculation in accordance with DIN 1055-4 (2005-3) for glass and transom loads
- Automatic U value calculation
- 3D viewer for coloured profiles and profiles with Schüco AutomotiveFinish
- Isothermal calculation
- Generate drawings of attachments to building structures
- Generation of specifications and quotations
- CAD viewer
- Download all profiles as a DWG or DXF file
- Section detail generation for individual and whole sections
- Energy savings calculator
- User-defined design
- Wide selection of unit and opening types
- Sash bars easy to set
- Online updates available

Schüco KSB-Soft

Schüco KSB-Soft – the software solution for all your calculation, production and process planning needs for PVC-U special constructions.



The all-rounder for special constructions

Thanks to the Schüco KSB-Soft, Schüco is able to support its partners' individual process planning for particularly sophisticated units. From planning and cutting lists through to calculation and optimisation, a special building project like this could not be easier.

The software is available free of charge on the Internet at www.schueco.de/ksb-soft



Product highlights

- Calculation of size options (ratio/weight/ fittings)
- Cutting lists
- Exact calculation of individual units
- Calculation of several units with optimisation
- Calculation with offcut
- Option to enter discounts or special prices



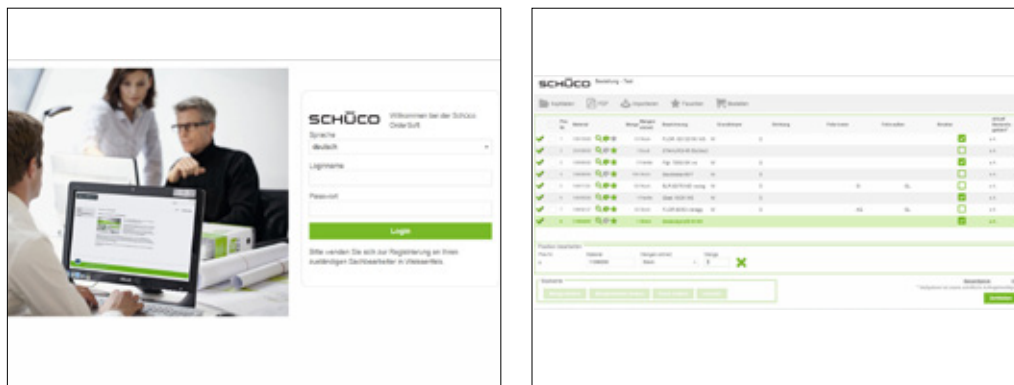
Available systems

- Schüco ThermoSlide
- Schüco ThermoSlide TopAlu
- Schüco EasySlide
- Schüco EasySlide TopAlu
- Schüco Corona S 150
- Schüco Corona S 74

Schüco OrderSoft



Schüco OrderSoft is a custom piece of software which Schüco partners can use online via the Schüco website, allowing them to quickly and easily place an order.



With Schüco OrderSoft, Schüco products can be easily and reliably ordered and requested on a PC, tablet or smartphone. It is available to Schüco partners as an online version on the website and can be used online at any time and from anywhere. Orders can therefore be made 24 hours a day. The application does not need to be installed locally. This ensures that the latest software version and up-to-date article master data are always used.

www.schueco.de/ordersoft-pt



Product highlights

- Online application can be used at any time, on any end device and by more than one employee
- Simple user interface
- Address data management
- Creation and use of order forms
- Comprehensive illustrations of colours and profiles
- Intelligent colour code recognition
- Even special colour orders are easy to configure
- Numerous help and search functions with visual support
- Capacities and packing unit contents, including specification of alternative capacities, are displayed
- Import of order lists
- One-click direct electronic order transfer
- Save and display function for earlier orders



Elementschnitt

- Wand
- 3D-Schnitt
- Maße
- Download

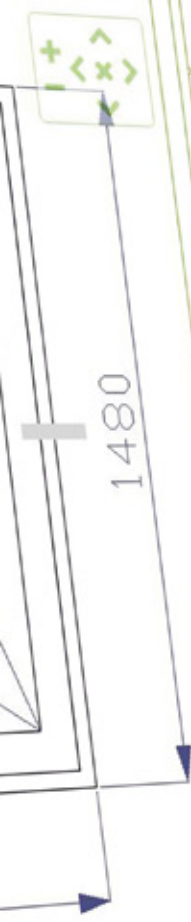


Ergebnisse

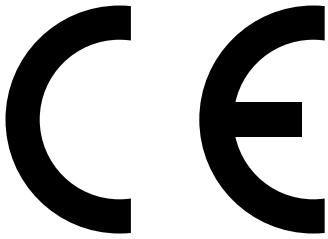
- POSITIONSTEXT
- U-WERTBERECHN...
- STATISCHE VORDI...
- FLÜGELGRÖSSE
- ELEMENTGRÖSSE**

Ergebnisse der Elementgrößenprüfung

Teilelement	Öffnung Ms	Maximale Fläche	Elementfläche	Max. Stablänge Rahmen	Stablänge Rahmen waagrecht	Stablänge Rahmen senkrecht
1	1	5,0 m ²	1,8 m ²	2,5 m	1,2 m	1,5 m




CE marking



CE marking

Since 1 July 2013, all windows and external doors that are marketed within the European Union must be labelled with the CE mark in accordance with the Construction Products Regulation. The abbreviation CE stands for "Communautés Européennes" (English: European Communities) and indicates that a product conforms to the relevant directives. The CE marking must be affixed on the basis of a Declaration of Performance, in which the performance must be specified for the essential characteristics of the construction product. The essential characteristics of windows and external doors are described in the harmonised product standard EN 14351-1.

The CE marking is a type of „passport“ and permits a product to be marketed across Europe. The marking demonstrates that the manufacturer’s product satisfies the directives, is approved to be sold within the European Union, and that the construction product conforms with the performance specified in the Declaration of Performance. The CE mark is not conferred, awarded or certified, but rather issued by the manufacturer on their own authority. The company which assembles the product ready for use and determines the essential characteristics of the product is considered to be the manufacturer.

	
13 Fa. Mustermann, Musterstraße 99, D-12345 Musterhausen	
Fenster / Tür Modell Schüco Typ 7001 A01 LE/DoP-Nr.: 7001 A01/2013-04-18 EN 14351-1:2006+A1 2010	
Kunststoff-Fenster / Tür geeignet für den Einsatz im Wohnungsbau und Nichtwohnungsbau ohne Anforderungen an den Feuerschutz und/oder Rauchdichtigkeit	
Schlagregendichtheit (Klasse)	9A
Gefährliche Substanzen	-
Widerstandsfähigkeit gegen Windlasten (Klasse)	C5 / B5
Tragfähigkeit von Sicherheitsvorrichtungen	Schwellenwert erfüllt
Höhe* (mm)	npd
Schallschutz (dB)	npd
Wärmedurchgangskoeffizient** (W/m ² K)	1,3
Strahlungseigenschaften	
Gesamtenergiedurchlassgrad	0,61
Lichttransmissionsgrad	0,80
Luftdurchlässigkeit (Klasse)	4
* nur bei Außentüren ** berechnet für Standardgrößen lt. EN 14351-1- Anhang E mit warmer „Kante“ Psi = 0,05 W/mK	

CE marking



Factory production control guide

Schüco supports its partners with individual consultancy and by providing documents and templates:

1. System descriptions – definition of the window and door systems

As a supplement to our order and fabrication manuals, the system description provides an overview of the window or door system with all the information required for planning, fabricating and installing the windows and doors.

2. Factory Production Control – guide

A conceptual proposal for Factory Production Control which can be individually adapted to the circumstances of the Schüco partner.

3. Product performance certificates – performance characteristics of the systems with their product families

A clear overview of the test results for Schüco window and door systems. Schüco provides all partners in the cascading procedure with the necessary initial type tests. Time-consuming and expensive tests carried out by the manufacturer are therefore reduced to a minimum or are no longer required at all.

4. Templates for CE marking and Declaration of Performance

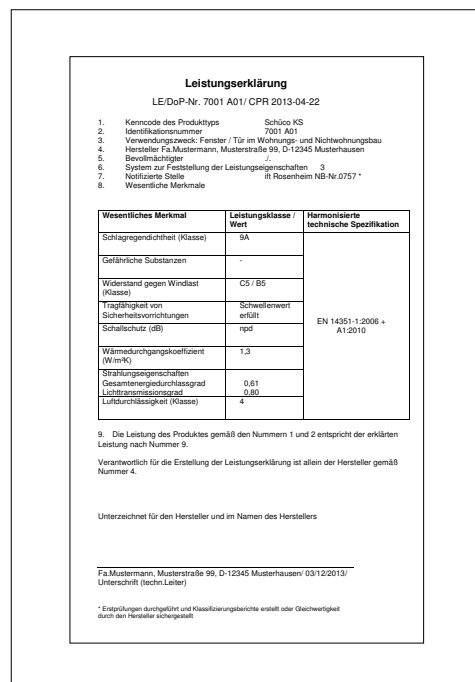
As an appendix to the delivery documents for an order or project, the templates are used for actual CE marking.

5. Database for creating documents

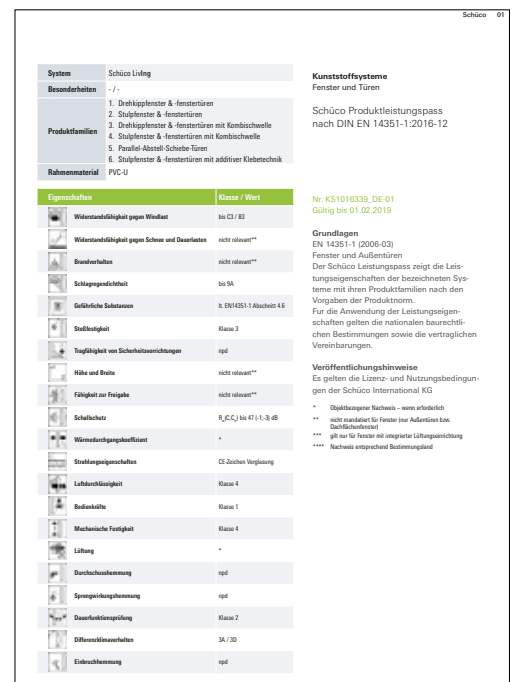
Structured database for each system sorted according to product family and glass type with specification of the essential characteristics. Link to the templates for automatic creation of the documents.

The above documents can be found in the Partner area at

www.schuco.de/ce-kennzeichen



Declaration of Performance



Product performance certificates

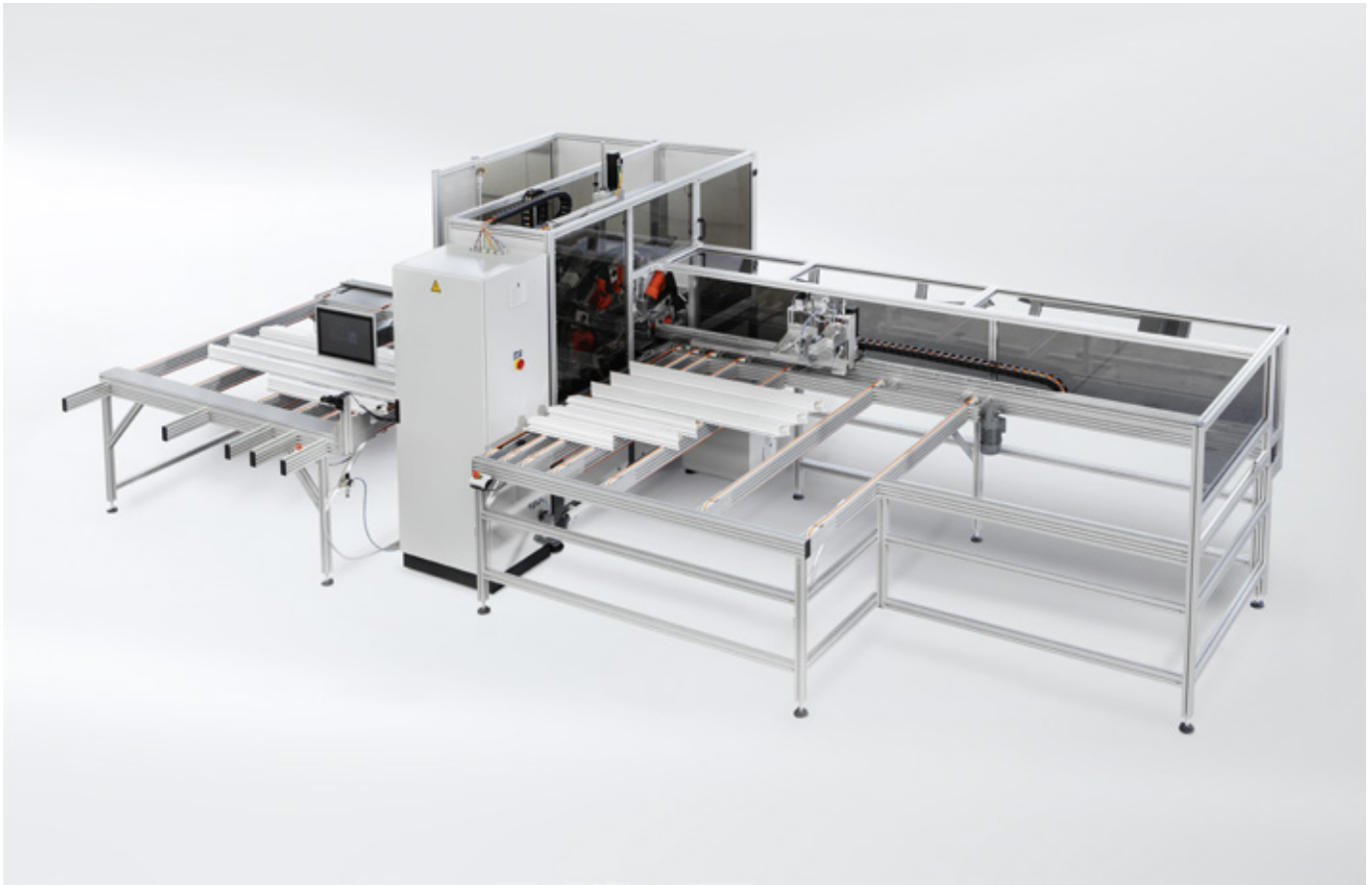
Schüco machinery technology

To ensure the same level of precision during fabrication and planning, Schüco Polymer Technologies KG also provides its partners with suitable machinery.

	Saws	Machining	Screws	Punching	Drilling	Welding	Cutting off	Extracting	Display
Areas of use									
Saws									
Double-headed mitre saw ZGS 311	■								
Double-headed mitre saw ZGS 314	■								■
Length cutting and mitre saw ZS 135	■								
Machining									
Drainage slot milling machine FWS 381		■							
Drainage slot milling machine FWS 281		■							
Insulating bar milling machine SF 100/2		■							
Insulating bar and gasket milling machine SDF 100 NC		■							■
Gasket milling machine DF 100		■							
Screws									
Screw system with screw feed unit DS 1700			■						
Screwing and drilling machine SBA-DS17-V2			■		■				
Saws / Machining / Screws									
Profile processing centre TH-PBZ-4		■	■		■				■
Welding									
Setting and welding machine AKS 1150						■			
Double-headed welding machine SZK 502						■			
Four-head welding machine SMK 504						■			■
Four-head welding machine SMH 510						■			■
Cutting off									
Corner cleaning machine SV 290		■					■		
Corner cleaning machine EPA 170		■					■		■
CNC corner cleaning machine EPA 472		■					■		■

Innovative machine technology with ionised air

Equipped with ionised air, the Schüco machine technology significantly reduces the risk of dirt particles attaching to the PVC-U profile, thereby simplifying fabrication.



Stationary Schüco TH-PBZ-4 processing centre with ion air spray nozzles

PVC-U profiles are usually electrostatically charged on the machine surfaces by means of friction during the production of window and door units. This electrostatic charging can mean that production is heavily disrupted, as dust, dirt particles and swarf from the surroundings are magnetically attracted to the charged profile surfaces and stick fast. Even removing them using tried-and-tested technologies such as compressed air has little success. In general, around 60 to 80% of dirt is removed, but 30 to 40% almost immediately sticks to the profile surfaces again.



Compressed air gun with ion technology for mobile use



PVC-U profile preparation on machine technology with ionised air prevents swarf and dirt adhesion

Schüco now has a solution for its fabricators: the latest machine technology with ionised air. Together with its partners from the machine technology sector, Schüco has developed stationary and mobile solutions which take advantage of the benefits of ionised air. If profile surfaces are treated with ionised air during the fabrication process in future, they will be electrostatically discharged, meaning that swarf and dust etc. will not stand a chance.



Features and benefits Schüco TH-PBZ-4

- Compressed air supply NW 8 mm
- Variable tool set-up for up to 8 tools plus reinforcement screwdriver
- All milling and drilling units are located on a live ring
- Low-maintenance precision guides
- The latest drive technology
- Screwdriver positions can be adjusted to any height
- Gripper positions can be adjusted laterally and to any height
- Supports not required
- DIN code can be programmed
- Control by means of industrial computer
- All processing units are freely programmable
- Minimum space required

PVC-U machinery

Machine technology from Schüco is perfectly tailored to Schüco PVC-U systems and offers absolute precision, automation, simplified processing and increased ease of work.



Schüco SDF 100 NC

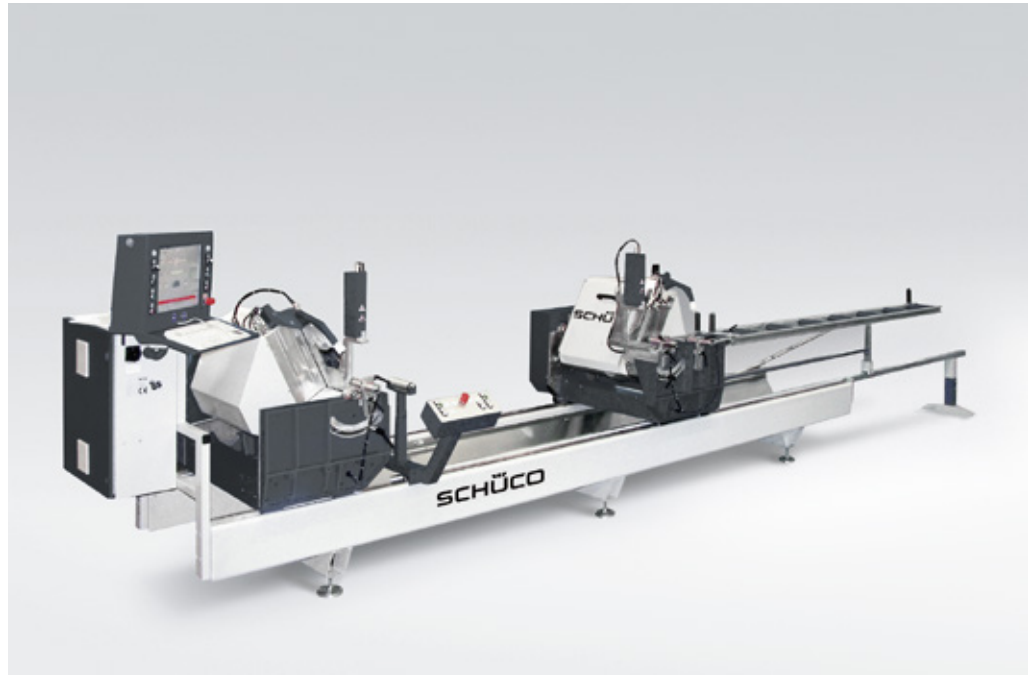
Schüco SDF 100 NC insulating bar and gasket milling machine

The Schüco SDF 100 NC insulating bar and gasket milling machine is used for automatic notching of aluminium insulating bars in the Schüco Living Alu Inside profile system as well as for machining gaskets for the Schüco Living and Schüco Corona CT 70 systems. The machine is fitted with two routing motors and 2-axis NC control, in order to machining two profiles in parallel in one working step. The NC control is powered by two three-phase servo drives. The pneumatic clamping device is operated by one insertion switch. The automatic spray device for processing the aluminium insulating bars facilitates work.



Features and benefits

- Heavy duty machine construction for long service life
- Two routing motors, each accommodating two milling discs
- Frequency converter for adjusting the machining of gaskets
- NC control with Windows interface
- Ranges of travel with servo drives



Schüco ZGS 314

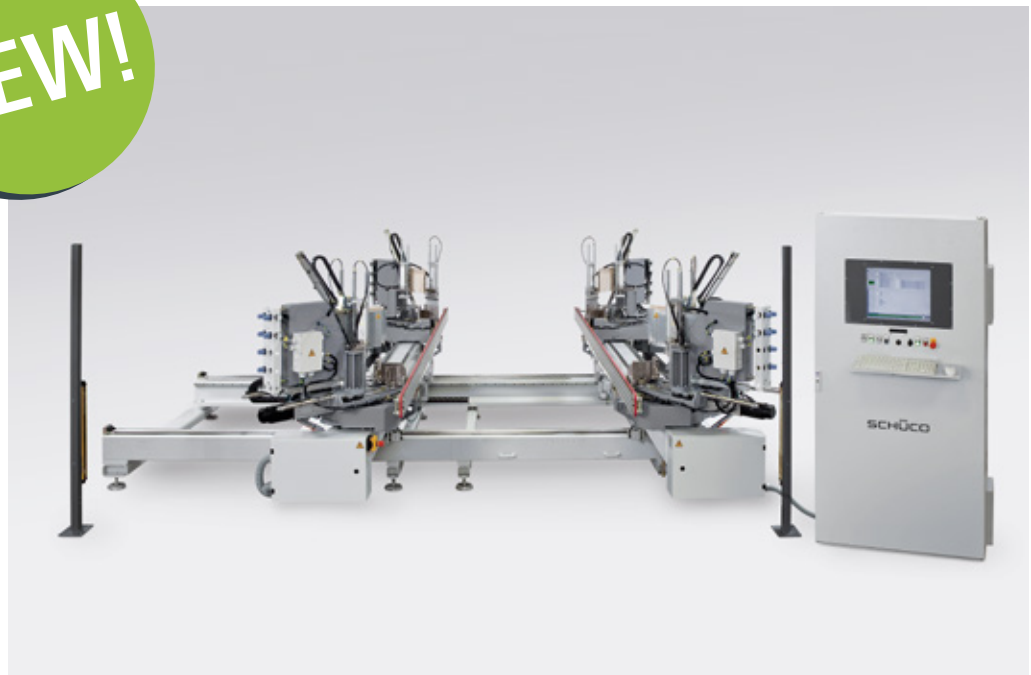
Schüco Double-headed mitre saw ZGS 314

The Schüco ZGS 314 is a double-headed mitre saw for cutting PVC-U profiles in pairs. The double-headed mitre saw is designed as a robust cast steel construction. An accurate electric adjustment device is used to set the machine length, and the saw head is positioned by means of tempered toothed racks using a direct measuring system and servomotor. The saws are controlled by a PC control system using function keys, an Intel Pentium processor, disk drive and 17" monitor.



Features and benefits

- Toughened, polished guide tracks
- Direct measuring system with servo motor
- Two saw heads with hydro-pneumatic feeder
- Manual pivot range 45° - 90° - 135°
- Two 3.0 kW saw motors, 2800 rpm
- Saw blade diameter 550 mm
- Saw carriage adjustable at centre
- Protective hoods over the saw area with extraction nozzles (diameter 80 mm)
- Pneumatic profile clamping from front and top for all swivel settings
- Fixed roller conveyor, 3000 mm long with base
- Manually operated central support to prevent profile deflections



Schüco SMH 510

Schüco SMH 510 four-head welding machine

The Schüco SMH 510 four-headed welding machine is a high-temperature welding machine consisting of a durable, robust four-headed welding machine for welding four corner joints at an angle of 90° in throughput times below 80 seconds. The machine works with a parallel feed process with electronic positioning control of the welding heads.



Features and benefits

- Parallel feed welding process by means of servo drives.
- Continuous adjustment of the weld bead restriction between 0.2 and 2.0 mm as well as the melt/compression movement by means of servo drives.
- Zero tools for outer frame tools
- Limiting cutters are hardened and made from stainless steel
- Quick change system for outer limits
- Shielding via photoelectric barrier
- Gasket forming units push and pull
- Regulated blade heating at the top and bottom
- Quick clamping for Teflon sheet
- Automatic output transport



NEW!



Schüco EPA 579

Schüco EPA 579 corner cleaning machine

The Schüco CNC corner cleaning machine with up to seven axes for the complete processing of corners on PVC-U window frames.



Features and benefits

- Stable welded construction of the machine bases
- Durable precision thanks to attachment of flat guides on machined surfaces
- Four CNC axes (up to seven as an option) offer a high level of reproduction precision and low cycle times
- High number of six tool positions at both the bottom and top (up to twelve as an option)
- Tried-and-tested cut-off devices which ensure excellent processing results for foiled profiles too
- Flexible, resource-efficient profile feed by means of controlled axes
- Rotating mechanism with controlled motor for even rotation, even with inconvenient unit sizes
- Modern Windows control



NEW!



Schüco FAZ-100

Schüco FAZ 100 vent fittings centre

Modular fittings centre for program-controlled, efficient installation of the Schüco VarioTec, Schüco VarioTec NI and Schüco VarioTec Air fittings system with automatic locking bar processing. All necessary locking bar calculations for individual opening types, vent sizes and individual load types are carried out automatically. The calculated locking bar is then machined, displayed on the touchscreen and output in the order of the assembly process. The system can be designed both as a completely self-contained and in a network integrated workstation.



Features and benefits

- Steel construction with integrated locking bar reel
- Height adjustment from 960 to 1100 mm
- Scanning of the glazing bead dimension with integrated rebate detection by means of control data
- Table support with polyethylene slide rail and storage for tools and small load carriers
- Automatic locking bar processing with output to a collecting tray
- Solid punch with double-stroke cylinder
- High load-bearing capacity of the unit linear guide for screwdriver and drilling machine



NEW!



Schüco FSA-100

Schüco FSA-100 automatic screwdriver

The Schüco FSA-100 automatic screwdriver is a robust machine construction for automated fittings installation. In conjunction with the Schüco FAZ-100 vent fittings centre, it allows fittings to be installed in less than two minutes. The incredibly quick throughput times that result for fittings installation are the best in the market and guarantee increased production capacity with reduced unit labour costs. The adjusted cycle times for large production lines ensure error-free throughput for the entire window production.



Features and benefits

- Modular construction in conjunction with the Schüco FAZ-100 vent fittings centre
- Optimised 2-axis screwdriver for screwing together two sides at the same time
- Automated positioning and alignment of window units
- Automatic monitoring of torque for all screwed components with error messages
- Also designed for large units (max. length 2600 mm x max. width 1560 mm)
- Designed for all Schüco VarioTec window fittings systems



Schüco FRA-100

Schüco FRA-100 vent locking bar machine

With a 12.5" touch screen for visual display of the program-controlled fittings installation, for efficient installation of the Schüco VarioTec fittings system with automatic locking bar preparation.



Schüco GLA 403

Schüco glazing bead saw GLA 403

For cutting glazing beads with and without gaskets to 45°. The machine has two special glazing bead locating grooves which allow two glazing beads to be cut simultaneously under tension. In addition, it is characterized by its high precision and the infinitely adjustable mounting angle.

SCHÜCO





The Company

Schüco Polymer Technologies

Schüco Polymer Technologies KG draws together many decades of Schüco expertise in developing, producing and selling PVC-U system technology for windows, doors and sliding doors.

The wholly-owned subsidiary of Schüco International KG drives forward the global PVC-U business under the umbrella of a strong brand and from the secure foundation of a family-run group

of companies. We achieve this with innovative technologies and products with unique selling points for all aspects of the building envelope. Alongside profile systems, we offer partners an extensive range of accessories, fittings and ventilation solutions. Combined with the best quality, engineered and made in Germany, plus exceptional service.

Family-run group of companies

Schüco International KG

Schüco – one of the market leaders for sustainable building envelopes embodies global expertise in windows, doors and façades.

Founded:

1951 in Ostwestfalen; parent company of Schüco Polymer Technologies KG since 2016

Company headquarters:

Karolinenstraße 1–15, 33609 Bielefeld, Germany

Area of expertise:

Window and door systems, façade systems

Employees:

More than 4.630 employees worldwide

International presence:

Active in over 80 countries

Group turnover:

€1.430 billion (2017)

Network:

Over 12,000 fabricators, architects, developers and investors worldwide

OTTO FUCHS KG

As an innovative development partner, the OTTO FUCHS KG offers individual concepts and solutions for customers in the aerospace, automotive and building industries, as well as in the machinery and system construction sector.

Founded:

1910 in Meinerzhagen; parent company of Schüco International KG since 1964

Company headquarters:

Derschlager Straße 26, 58540 Meinerzhagen

Area of expertise:

Innovative half profiles and components made from aluminium, magnesium, copper, titanium and nickel alloys

Employees:

More than 9.000 employees worldwide

International presence:

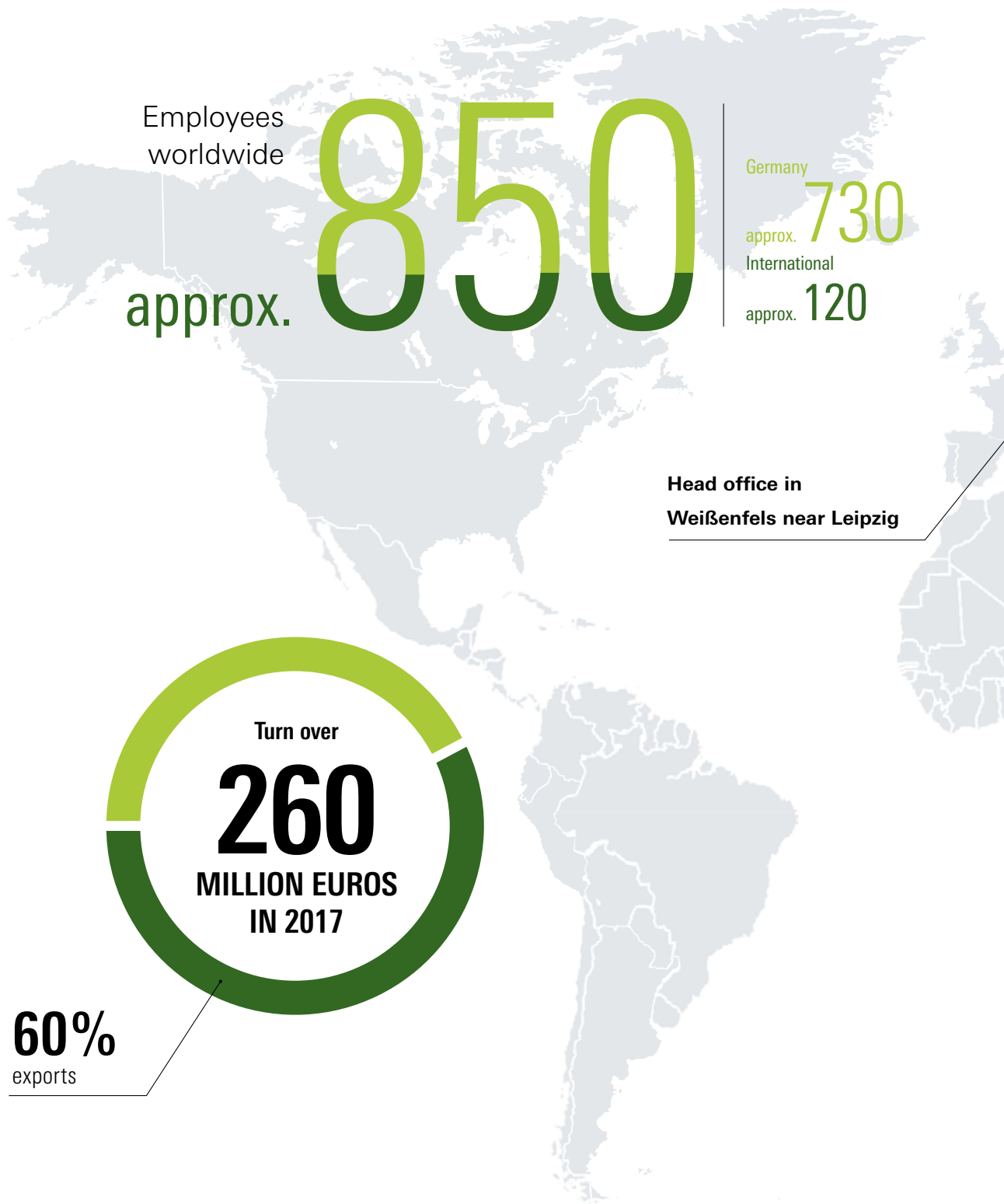
Subsidiaries in Europe and overseas

Group turnover:

2.4 billion euros (2017)

Company profile

Schüco Polymer Technologies KG





ACTIVE IN
OVER **40**
COUNTRIES

APPROX.
2.700
PARTNERS

MORE THAN
30 YEARS

DEVELOPMENT OF
FORWARD-LOOKING
PVC-U SYSTEMS

Schüco Showrooms

Innovative and interactive – our showrooms

Are you looking for a high degree of design freedom as well as planning reliability for your project? Visit our showrooms and take a look at our design-oriented window, door and façade systems which offer plenty of room for your ideas while also meeting the highest requirements in terms of sustainability, comfort and security.

www.schueco.com/showrooms



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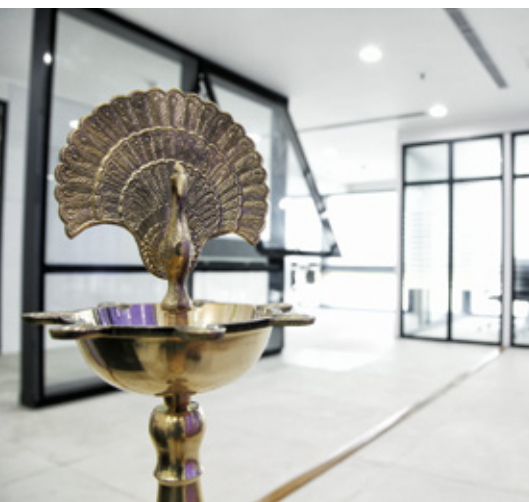
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Schüco – System solutions for windows, doors and façades

Based in Bielefeld, Schüco International KG develops and sells system solutions for windows, doors and façades. With more than 4750 employees worldwide, the company strives to be the industry leader in terms of technology and service today 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. 12,000 fabricators, developers, architects and investors around the world work together with Schüco. The company is active in more than 80 countries. For more information, visit www.schueco.com