

SCHÜCO



PVC-U systems and services



Home is everything.



Dear Partners,

What makes your house a home? Everyone has their own idea of what “home” is. However, while our opinions may be different, one thing we can all agree on is that home is a place where you feel comfortable and safe. And we appreciate this more than ever today.

This is why we work with you every day to turn the homes of our many clients and residents into a personal sanctuary using Schüco window, door and sliding systems. With large-format sliding units, innovative design windows and intelligent entrance doors, Schüco Polymer Technologies KG offers an extensive portfolio of PVC-U systems for residential construction. Be it comfort, security, design or sustainability, our holistic PVC-U solutions meet the requirements of today and tomorrow. Furthermore, we provide support through individual services, so that you can concentrate on the essentials.

Discover our innovation highlights in the focus topics of SERVICE, PANORAMA, VIEW and ARRIVAL and let's seize the opportunities of the residential market together. After all, “home is everything”.

With our PVC-U systems – engineered and made in Germany – as well as tailored services, you can rely on us as a strong partner to have by your side – both today and in future.

Andreas Engelhardt
Managing Partner
Schüco International KG

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SERVICE

In order to meet increasing requirements in building projects, Schüco Polymer Technologies offers advice as well as numerous services and digital solutions for all phases of the construction process – from the initial idea through to design, fabrication and installation.



Find out more about
SERVICE
at
[www.schueco.com/
polymer_highlights-
service](http://www.schueco.com/polymer_highlights-service)



SCHÜCO POLYCAL

Schüco PolyCal, co-developed by Orgadata and Schüco, is a new window design software with which Schüco PVC-U windows, doors and sliding doors can be calculated and fabricated easily and efficiently.

- **Software for small and medium window construction companies**
- **Option for unit entry, calculation and cutting optimisation**
- **Contains tools for section details, structural calculation and machinery control**
- **Option to transfer CNC data to processing centres**



SCHÜCO VIRTUAL SHOWROOM

The Schüco virtual showroom adds a new dimension to presenting construction units and installation scenarios, and impressively demonstrates the advantages and benefits of Schüco systems.

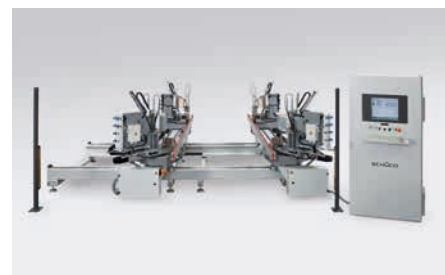
- **3D product display in different buildings and installation scenarios**
- **Visualisation of product functions**
- **Import your own 3D building models**



SCHÜCO SMH 510 FOUR-HEAD WELDING MACHINE

So that partners can fabricate Schüco PVC-U systems economically and efficiently, we offer them an extensive range of machinery for initial installation, expansion or conversion, such as the new Schüco SMH 510 welding machine.

- **Welding of four corner joints at an angle of 90° with throughput times of less than 80 seconds**
- **Works with a parallel feed process with electronic positioning control of the welding heads**
- **Continuous adjustment of the weld bead restriction**



PANORAMA

New levels of transparency: Large-format units, narrow profiles – we create living spaces with panoramic views. For even more comfort and aesthetic appeal.



Find out more about
PANORAMA
 at
[www.schueco.com/
 polymer_highlights-
 panorama](http://www.schueco.com/polymer_highlights-panorama)



SCHÜCO LIVINGSLIDE

More variety with new Panorama Design options and comfort solutions for the lift-and-slide system.

- A new vent profile with a minimum face width of 72 mm provides more transparency and ideal sightlines
- The Panorama Design fixed light offers maximum light penetration and therefore solar energy gains
- A new 0 mm threshold and electric drive guarantee increased comfort



SCHÜCO EASYSLIDE

A proven lift-and-slide system redefined: The new Schüco EasySlide generation.

- Fabrication has been further simplified for even faster throughput times
- The threshold has been optimised and aligned with the Schüco LivingSlide threshold
- Significant improvement in U values with an average U_f of 1.4 W/(m²K)



SCHÜCO SOFTSLIDE

The new sliding system for patio doors, partition units and porches.

- Two, three, four and six-vent units possible
- Optional Panorama Design fixed light for maximum transparency
- The specially matched brush seals ensure that the sliding vents move smoothly



VIEW

Withdrawing, feeling safe and secure. Design-oriented PVC-U window systems from Schüco provide maximum comfort, security and energy efficiency.



Find out more about
VIEW
at
[www.schueco.com/
polymer_highlights-
view](http://www.schueco.com/polymer_highlights-view)



SCHÜCO SYMBIOTIC

The new Schüco Symbiotic design window system perfectly combines the two Schüco materials, aluminium and PVC-U.

- **Angular, flush-fitted design inside and outside**
- **Thanks to the identical visual design of Schüco aluminium window systems, both systems can be combined in a single project**
- **Face widths of just 110 mm ensure maximum transparency**



SCHÜCO HAFENCITY WINDOW

Less noise, more comfort. The new Hafencity window from Schüco improves urban acoustics.

- **Specially designed box window, assembled from the Schüco LivIng and Schüco CT 70 or Schüco LivIng 82 MD and Schüco LivIng 82 AS**
- **Comfort, quiet and ventilation with partially opened windows**
- **Sound reduction of up to 60 dB when closed and up to 35 dB when partially opened**



SCHÜCO VENTOTHERM TWIST

Decentralised, window-integrated ventilation system with incoming air, outgoing air and heat recovery for a controlled exchange of air without opening the window.

- **Decentralised, cost-saving integration in the building envelope without suspended ceilings or wall openings**
- **Horizontal and vertical integration in tested Schüco window systems**
- **Developed in partnership with Renson®**



ARRIVAL

The entrance door not only provides direct access to the inside of a home, it also gives a first glimpse of the inhabitants' character. A broad portfolio of fittings and design options means that stylish door solutions which meet every requirement can be designed for all areas of life and work.



Find out more about
ARRIVAL
 at
[www.schueco.com/
 polymer_highlights-
 arrival](http://www.schueco.com/polymer_highlights-arrival)



SCHÜCO DCS SMARTTOUCH

Smart door intercom system for intelligent Schüco PVC-U and aluminium entrance doors with reliable access control, HD camera, doorbell, night vision and the latest internet technology.

- **24/7 reception as the transmission is automatically adjusted to the regional network conditions**
- **Straightforward commissioning: no previous training or knowledge of the system required, therefore suitable for any building infrastructure. Only an internet connection is required**
- **Flexibility: the Schüco Cloud enables connectivity with various Smart Home systems**



SCHÜCO BLUECON

Access control for family homes and apartment buildings or offices. The door lock is extremely easy to control via a smartphone app.

- **The system meets the highest security requirements with double AES 128-bit encryption technology**
- **Can be linked to an existing Airbnb account**
- **Easy Plug & Play installation**
- **The door can also be controlled with a smartwatch**



PVC-U

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



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 layer influences the quality of the environment and the security of 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 as a 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. The basis is high quality, environmentally friendly, stabilised PVC-U from which the Schüco PVC-U profile systems 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 units are reduced to a minimum. All Schüco PVC-U profiles are also recyclable.



KEY BENEFITS AT A GLANCE

- Outstanding 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 now also found at Schüco in modern PVC-U windows and doors.

Gasket materials made from EPDM rubber have been used successfully in practice for many decades 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 weathertightness, 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 also 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. The fabrication of PVC-U profiles has been considerably simplified thanks to the simultaneous welding of the gaskets.

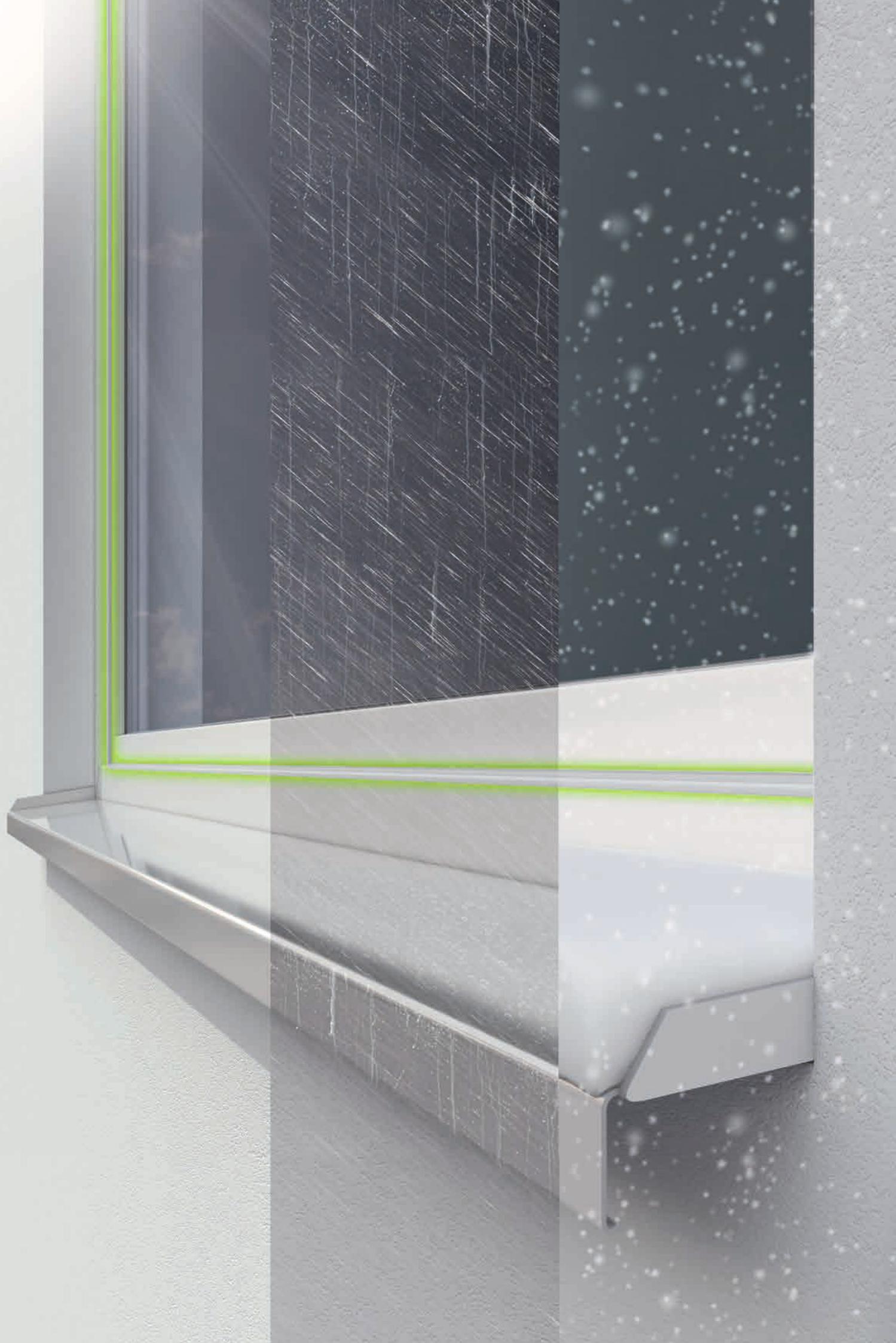
This weld-on sealing technology is used in the Schüco LivIng, Schüco LivIng Alu Inside, Schüco LivIng Variant, Schüco Symbiotic and Schüco LivIngSlide PVC-U systems.

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.



KEY BENEFITS AT A GLANCE

- **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, even 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**



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 requirements.



KEY BENEFITS AT A GLANCE

- High-quality products – engineered and made in Germany
- RAL-tested, fully recyclable PVC-U systems
- Wall thicknesses in accordance with RAL-GZ/716 and DIN EN 12608
- Complete range of PVC-U profiles in two basic depths: 70 and 82 mm
- Solutions for country-specific requirements
- Units and opening types available in a wide variety of designs
- Different vent frame contours are available: Classic, Rondo and Vision, as well as other Schüco TopAlu contours
- Different possibilities in surface design
- Comprehensive range of accessories for all systems
- Fittings, ventilation, safety barrier and sun shading systems for use with the profile systems
- Barrier-free threshold (0 mm or 20 mm) for entrance doors, window doors and double-vent units according to the design
- EPDM gaskets machine-rolled in the factory for efficient fabrication
- Excellent sound reduction values
- Operational reliability ease of use over decades
- Expertise in all materials within the Schüco Group



Design

Comfort

Security

Sustainability

Security

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 Symbiotic	Schüco CT 70	Schüco CT 70 Accent	Schüco ThermoSlide	Schüco LivingSlide	Schüco EasySlide	Schüco S 150	Schüco SoftSlide
Schüco PVC-U systems													
Sustainability													
Passive house suitability (certified by the PHI)	■												
Passive house suitability (certified by the ift)	■		■										
Highly thermally insulated	■	■	■	■	■				■	■			
Thermally insulated						■**	■	■			■	■	■
Sealing levels	3	3	3	2	2	3	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	1.1**	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	110	120	120	174	180	178	164	128
Recyclable	■	■	■	■	■	■	■	■	■	■	■	■	■
Security													
Security up to RC2 / SKG class 2*	■		■	■	■*	■**	■	■	■	■	■	■	■
Schüco VarioTec Air	■	■	■	■	■	■	■	■					
Schüco VarioTec / Schüco VarioTec NI	■		■	■	■	■	■	■					
Sound reduction (dB R _{w,p})	46		47	47		■**	46	46	45	45	43		
Additive adhesive technology			■	■	■	■	■	■		■	■	■	
Vent with adhesive rebate / Adhesive vent	■	■	■	■	■	■	■	■	■	■*			
Comfort													
EPDM gasket, can be welded	■		■	■	■	■				■			
EPDM gasket, cannot be welded		■					■	■	■		■	■	
SEBS gasket							■	■					■
Schüco VentoTherm Twist	■		■	■	■	■	■	■					
Schüco VentoPlus	■		■	■		■	■	■					
Schüco VentoAir / Schüco VentoAir*	■		■	■	■	■	■	■					
Schüco folding shutters	■		■	■	■		■	■					
Design													
Basic depth in mm	82	120	82	82	120	74	70	112	219	194	167	150	74
Safety barrier	■		■	■	■	■**	■						
Vent contours													
Rebated, Classic	■	■	■	■	■		■	■					
Flush-fitted						■							
Quarter-rebated, Rondo			■	■	■		■	■					
Semi-rebated, Vision							■	■					
Surface finishes													
Schüco AutomotiveFinish	■	■	■	■	■	■***	■	■	■	■	■	■	■
Schüco TopAlu aluminium cover cap	■		■	■			■		■	■	■		
Schüco UnlimitedFinish	■	■	■	■	■	■***	■	■	■	■	■	■	■
Unit options													
Arched-head window			■	■			■						
Special renovation solutions			■	■	■		■	■					

* New profiles ** Pending *** Inner side of the profile only

	Schüco Living Alu Inside	Schüco Alu Inside Nordic	Schüco Living 82 MD	Schüco Living 82 AS	Schüco Living Variant	Schüco Symbiotic	Schüco CT 70	Schüco CT 70 Accent	Schüco ThermoSlide	Schüco LivingSlide	Schüco EasySlide	Schüco S 150	Schüco SoftSlide
Schüco PVC-U systems													
Unit options													
Fixed glazing	■	■	■	■	■	■	■	■					
Inward-opening windows/window doors													
Side-hung (SH), turn/tilt (TT), bottom-hung (BH) vent	■		■	■	■	■	■	■					
Tilt-before-turn (KvD) vent	■		■	■	■	■	■	■					
Double-vent vent	■		■	■	■	■	■	■					
Parallel-opening side-hung (PAD) vent	■		■	■	■		■	■					
Outward-opening windows/window doors													
Side-hung (D), top-hung vent		■	■	■	■		■	■					
Side-hung door		■											
Top-hung window		■											
Horizontal pivot window				■			■						
Top Swing		■											
Side-guided 90°		■											
Top-guided		■											
Side-hung casement							■						
Top-hung casement							■						
Inward-opening entrance doors													
Single-leaf				■	■		■	■					
Double-leaf				■	■		■	■					
With toplight / sidelight				■	■		■	■					
Outward-opening entrance doors													
Single-leaf		■		■	■		■	■					
With toplight / sidelight				■	■		■	■					
Thresholds													
Barrier-free 0 mm threshold			■	■						■			
Barrier-free 20 mm threshold	■	■	■	■		■	■		■	■			■
30 mm threshold					■			■					
Sliding units													
Tilt/slide (PASK) vent	■		■	■	■		■	■					
Parallel sliding (PAS) vent	■		■	■	■		■	■					
Bi-fold construction				■									
Lift-and-slide construction									■	■	■		
Sliding construction												■	■
Panorama Design										■			■



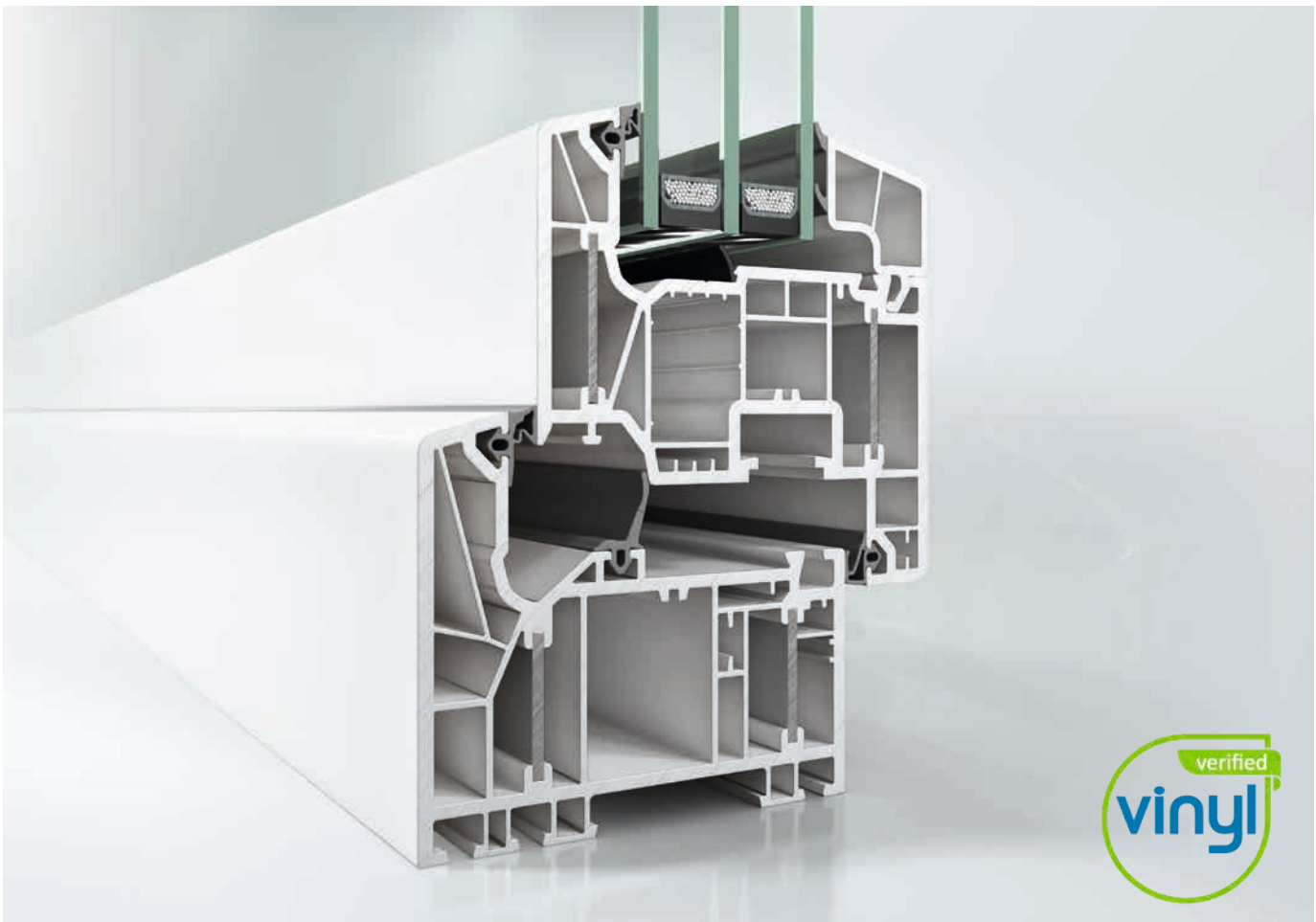
Window and door systems

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- 38 Schüco Liv**Ing** Variant
- 42 Schüco Symbiotic
- 46 Schüco CT 70
- 52 Schüco CT 70 Accent

Schüco LivIng Alu Inside

Based on the Schüco LivIng system dimensions, using 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.



PRODUCT HIGHLIGHTS

- Passive house-certified window system
- Aluminium profile rolling technology replaces conventional steel reinforcement, resulting in a smaller dead load for the units
- Centre gasket system with three continuous sealing levels
- Highly reliable and flexible system thanks to 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 recycled core material
- For increased design requirements, there is Schüco LivIng Alu Inside with grey or caramel-coloured base material
- Colour design with external aluminium cover caps, the exclusive Schüco AutomotiveFinish surface finish technology and a wide range of design foils from the Schüco UnlimitedFinish series

Schüco LivIng Alu Inside is the next logical development of the Schüco Alu Inside system. It is based on 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 the optional use of additive adhesive technology. 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.

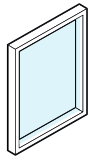
The 7-chamber profile construction, the dispensation with steel reinforcement and the specific positioning of the aluminium strips mean that Schüco LivIng Alu Inside has no thermal bridging. Here, the material within the profile system – a high-quality aluminium alloy – is a distinct advantage because it reflects approx. 90% of the thermal radiation due to its polished surface. The optimum division of the chambers, the reduction of the rebate space and additional, large insulation zones to accommodate optional insulation blocks allow excellent 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		
Basic depth of outer frame	82 mm	82 mm
Basic depth of vent frame	82 mm	82 mm
Possible glazing thickness	16 mm – 54 mm	16 mm – 54 mm
Tests and standards		
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 0.87 \text{ W}/(\text{m}^2\text{K})$	$U_f = 0.79 \text{ W}/(\text{m}^2\text{K})$
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 TBDK	Available	Available

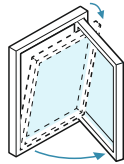
* Dependent on profile and glazing ** Dependent on profile

OPENING TYPES

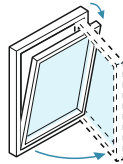


Fixed glazing

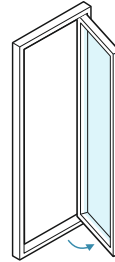
Inward-opening:



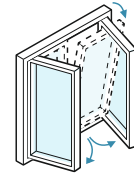
Side-hung, turn/tilt, bottom-hung vent



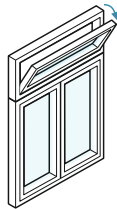
Tilt-before-turn vent



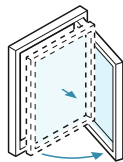
Side-hung door



Double-vent vent



Bottom-hung toplight



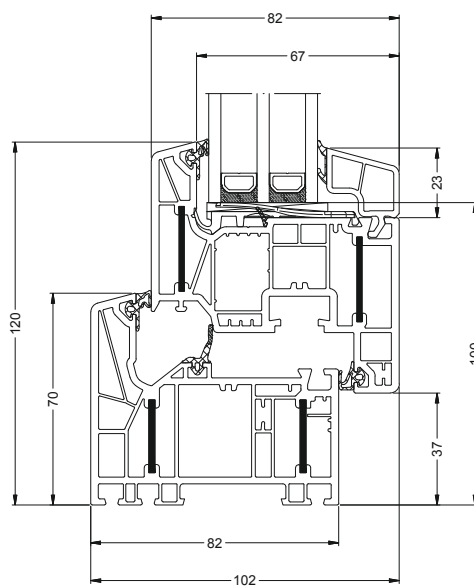
Parallel-opening side-hung vent

FABRICATION BENEFITS

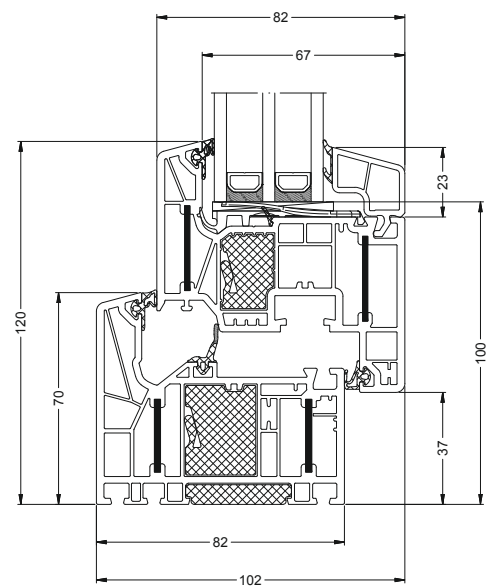
- The aluminium insulating bars are machined back simply and quickly before the welding process using an insulating bar milling machine; this removes the time-consuming process of fixing the steel reinforcements with screws
- All other fabrication steps are carried out in the usual way and using conventional 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/ glazing bar 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
- Optimised glazing rebate for optional glass bonding



Schüco LivIng Alu Inside
PHI version
Certified by the Passive
House Institute in
Darmstadt



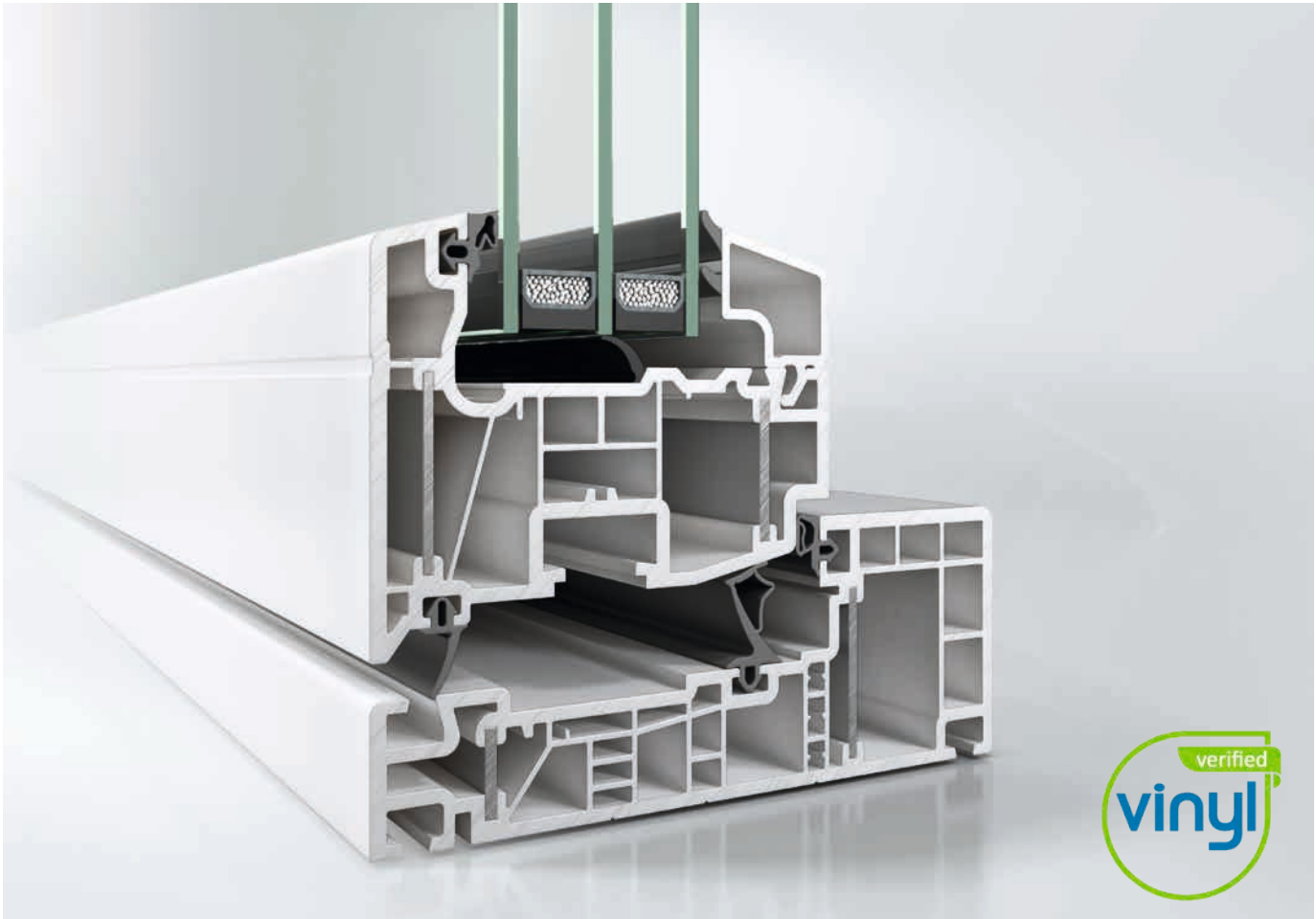
Section detail
Schüco LivIng Alu Inside; scale 1:2.5



Section detail
Schüco LivIng 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 PVC-U system which is particularly suitable for renovations.



PRODUCT HIGHLIGHTS

- Excellent thermal insulation with U_f values to $0.87 \text{ W}/(\text{m}^2\text{K})$ and E-Ref values of -13.76 to $21.7 \text{ kWh}/\text{m}^2$ per year
- Certified by the Teknologisk Institut Aarhus
- Outward-opening window and door 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
- Aluminium profile rolling technology replaces conventional steel reinforcement, resulting in more efficient, easier 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 unique 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 sealing 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 reinforcement 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. The closed, recessed fittings chamber is also protected against corrosion and dirt by a gasket.



Schüco Alu Inside Nordic window, closed
(Top Swing window)



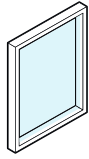
Schüco Alu Inside Nordic window, open
(Top Swing window)

Technical information	Schüco Alu Inside Nordic
Dimensions	
Basic depth of outer frame	120 mm
Basic depth of vent frame	82 mm
Possible glazing thickness	16 mm – 54 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 0.87 \text{ W}/(\text{m}^2\text{K})$
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

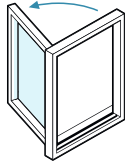
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OPENING TYPES

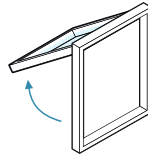


Fixed glazing

Outward-opening:



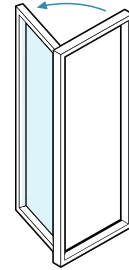
Side-hung vent



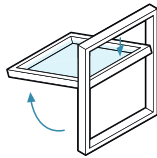
Top-hung vent



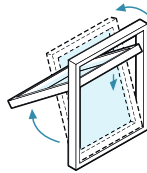
Side-guided
90° window



Side-hung door



Top-guided
window

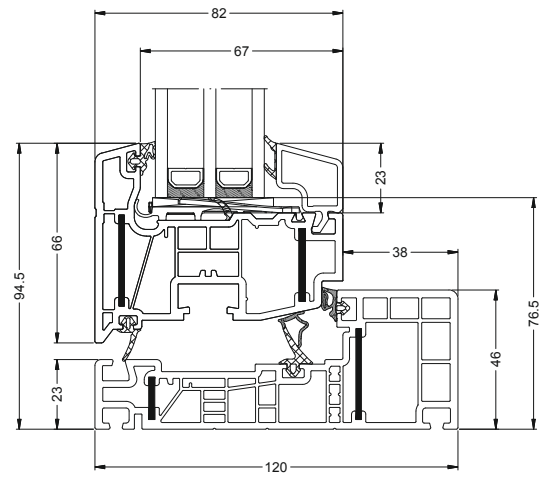


Top Swing window

+

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
- 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
- Optimised glazing rebate for optional glass bonding
- All standard fittings systems can be used without additional machining



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. At the same time, the highest requirements for comfort and security, as well as various design options, can be fulfilled.



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
- Fewer 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 (RC2). The possibility of

bonding to the glass ensures additional protection and a feeling of security.

As a complete system, Schüco LivIng offers a wide range of 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 construct parallel sliding, tilt/slide and parallel-opening 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 also available with a grey basic structure. This ensures a harmonious look, particularly when the window is open.

Flexibility and efficiency in 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

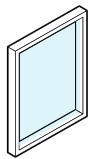
fittings components, not only serves to reduce the number of parts and lower storage costs, but it also simplifies the ordering process as a whole. Additional design details also increase use of the same parts and enable a more efficient fabrication process.

Technical information	Schüco LivIng 82 AS Classic/Rondo	Schüco LivIng 82 MD Classic/Rondo	Schüco LivIng 82 AS entrance door
Dimensions			
Basic depth of outer frame	82 mm	82 mm	82 mm
Basic depth of vent frame	82/90 mm	82/90 mm	82 mm
Possible glazing thickness	16 mm – 54 mm	16 mm – 54 mm	16 mm – 54 mm
Tests and standards			
Thermal insulation in accordance with DIN EN 12412-2	$U_f = \text{to } 1.0 \text{ W}/(\text{m}^2\text{K})$	$U_f = \text{to } 0.96 \text{ W}/(\text{m}^2\text{K})$	$U_f = 1.1 - 1.3 \text{ W}/(\text{m}^2\text{K})$
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 TBDK	Requirement met	Requirement met	Requirement met

* Dependent on profile and glazing

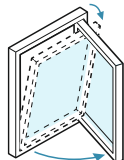
** Dependent on profile

OPENING TYPES

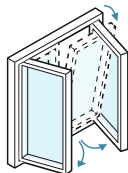


Fixed glazing

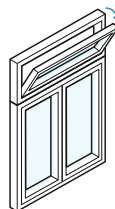
Inward-opening:



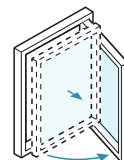
Side-hung, turn/tilt, bottom-hung vent



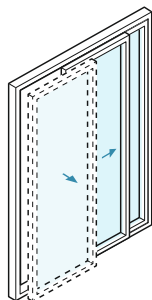
Double-vent vent



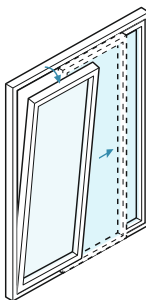
Toplight vent



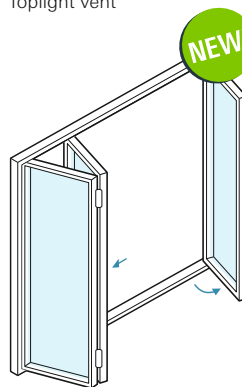
Parallel-opening side-hung vent



Parallel sliding (PAS) vent

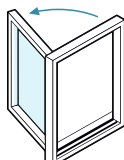


Tilt/slide vent

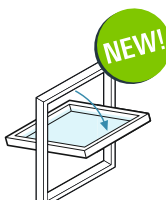


Folding sliding door

Outward-opening:



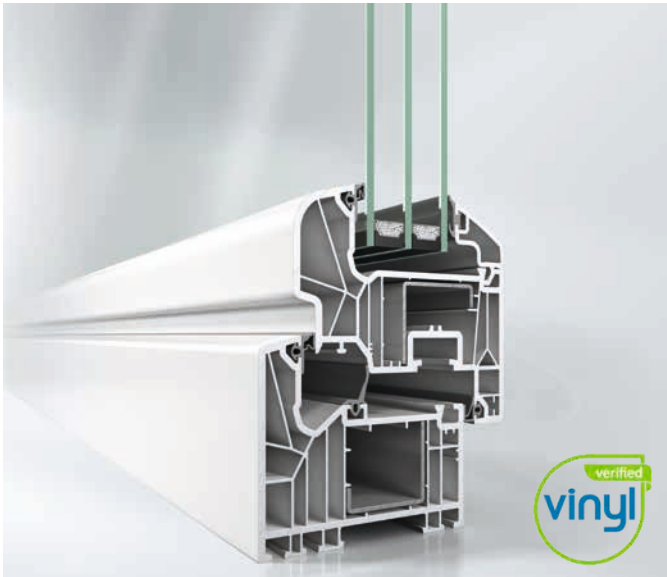
Side-hung vent



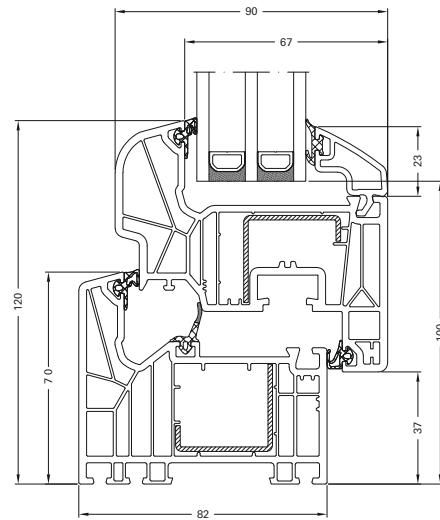
Horizontal pivot window

FABRICATION BENEFITS

- Glass bonding can be implemented using additive technology by means of a standard vent profile or with an adhesive vent profile
- 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 machining 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
- Blocking bridge with self-locating clamp for secure and easy installation
- T-crest 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



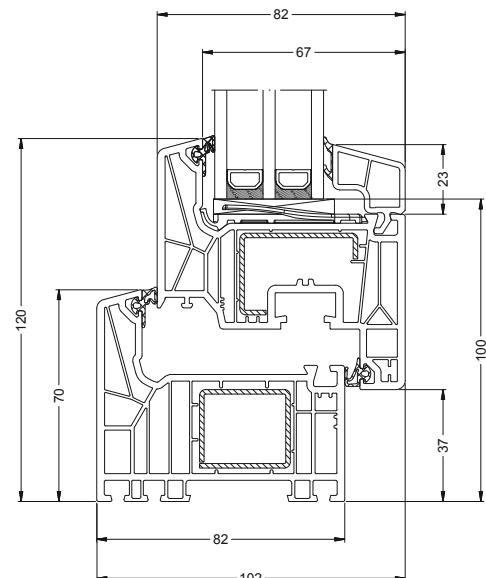
Schüco LivIng 82 MD Rondo



Section detail of Schüco LivIng 82 MD Rondo scale 1:2.5



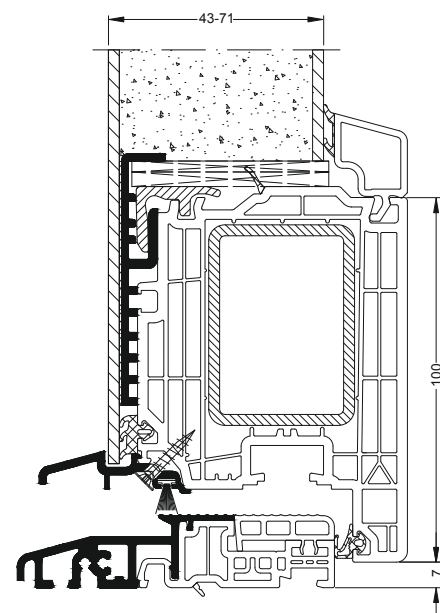
Schüco LivIng 82 AS Classic



Section detail of Schüco LivIng 82 AS Classic; scale 1:2.5



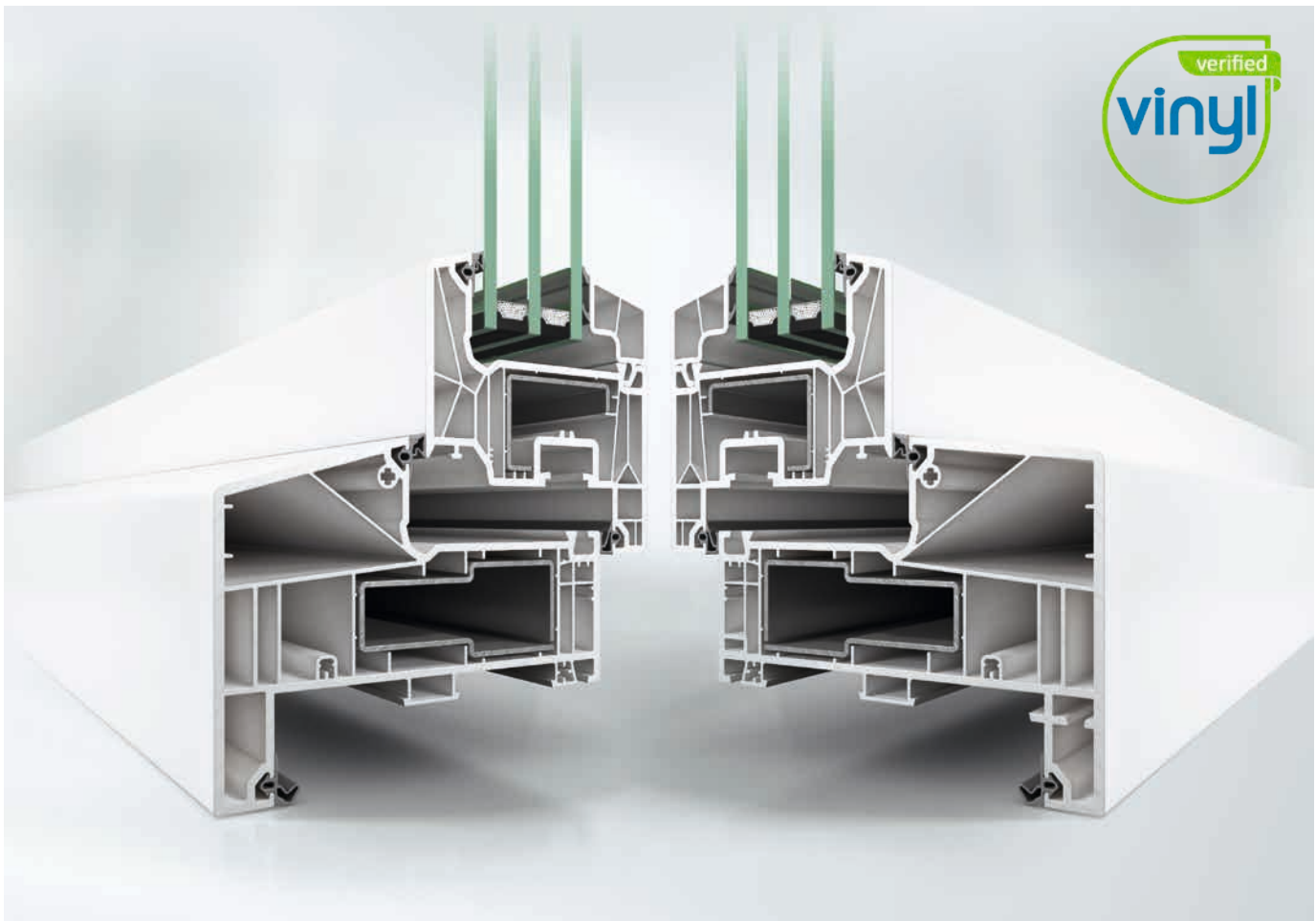
Schüco LivIng entrance door system with leaf-enclosing door infill



Section detail Schüco LivIng entrance 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. With its two contour options and corner joint options, it is ideally suited for the typical timber window look.

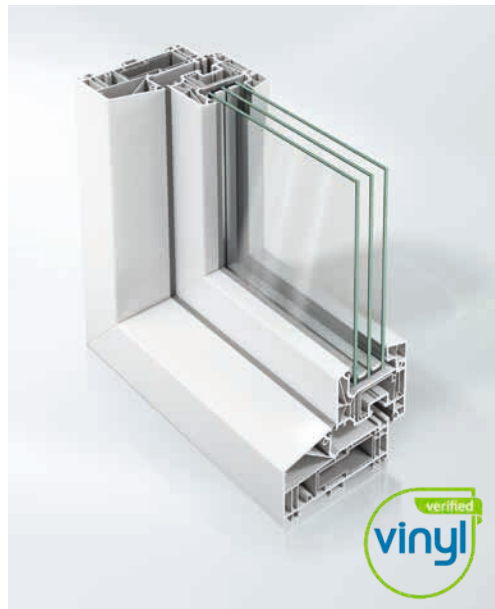


PRODUCT HIGHLIGHTS

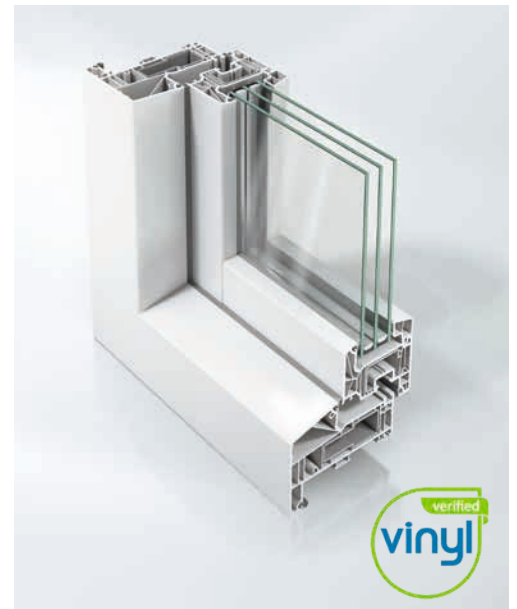
- Rebate gasket system for windows and doors with two continuous sealing levels
- Maximum energy efficiency thanks to the 6-chamber construction with a basic depth of 120 mm
- Two outer frame contours with 15° and 6° angles create an angular look
- Corner joints have a classic mitre cut or alternatively 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
- Integration in the Schüco colour range with Schüco AutomotiveFinish and Schüco UnlimitedFinish
- Optional base material colour: white or cream white

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° slopes 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 parallel sliding, tilt/slide and parallel opening 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. Burglar resistance can be further improved with the option of glass bonding.



Schüco LivIng Variant, corner view, mitre cut



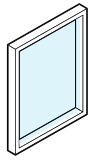
Schüco LivIng Variant, corner view, timber window look

Technical information	Schüco LivIng Variant	Schüco LivIng Variant door
Dimensions		
Basic depth of outer frame	120 mm	120 mm
Basic depth of vent frame	82 mm	82 mm
Possible glazing thickness	16 mm – 54 mm	16 mm – 54 mm
Tests and standards		
Thermal insulation in accordance with DIN EN 12412-2*	$U_f = \text{to } 1.0 \text{ W}/(\text{m}^2\text{K})$	$U_f = 1.1 - 1.3 \text{ W}/(\text{m}^2\text{K})$
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 TBDK	Requirement met	Requirement met

*Dependent on profile

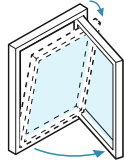
**In combination with SKG-certified fittings

OPENING TYPES

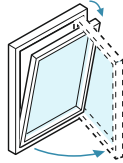


Fixed glazing

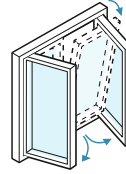
Inward-opening:



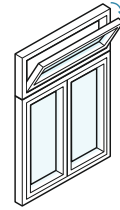
Side-hung, turn/tilt, bottom-hung vent



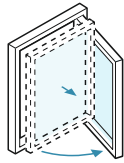
Tilt-before-turn vent



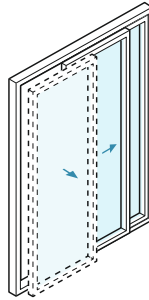
Double-vent vent



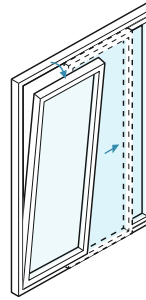
Toplight vent



Parallel-opening side-hung vent

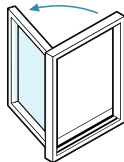


Parallel sliding (PAS) window

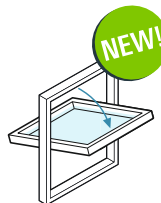


Tilt/slide vent

Outward-opening:



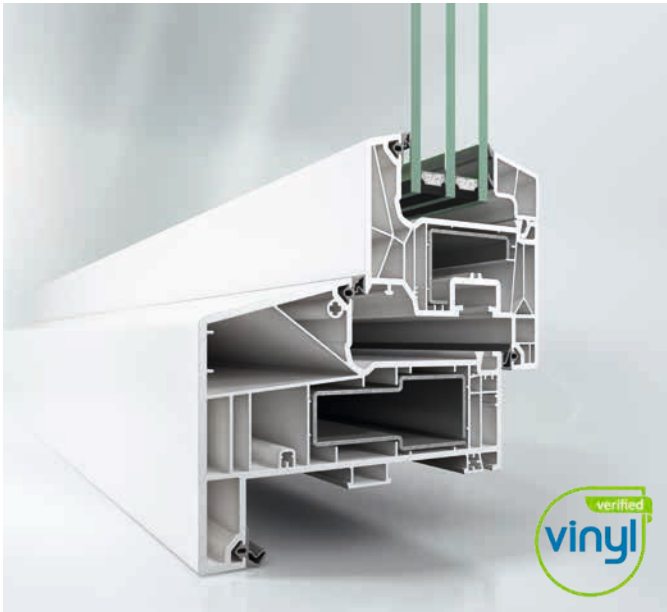
Side-hung vent



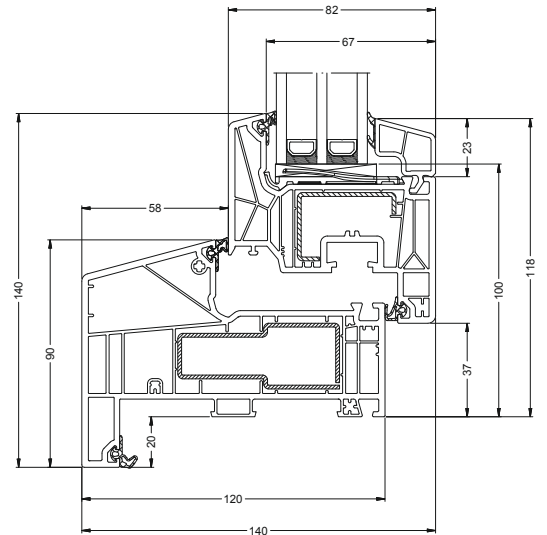
Horizontal pivot window

FABRICATION BENEFITS

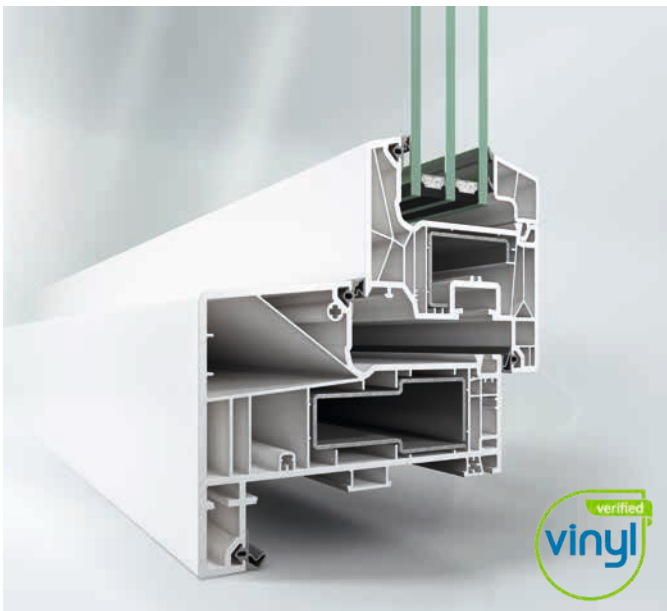
- Efficient and flexible fabrication and increased use of the same parts due to integration in the Schüco Living system platform
- Quick and clean installation of internal cover angles thanks to a pre-machined groove in the outer frame profile
- A 2-part T-cleat for 120 mm deep profiles simplifies the ordering process and makes fabrication easier
- Integrated screw ports for optimum 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
- Glass bonding can be implemented by means of a standard vent profile additive or with an adhesive vent profile



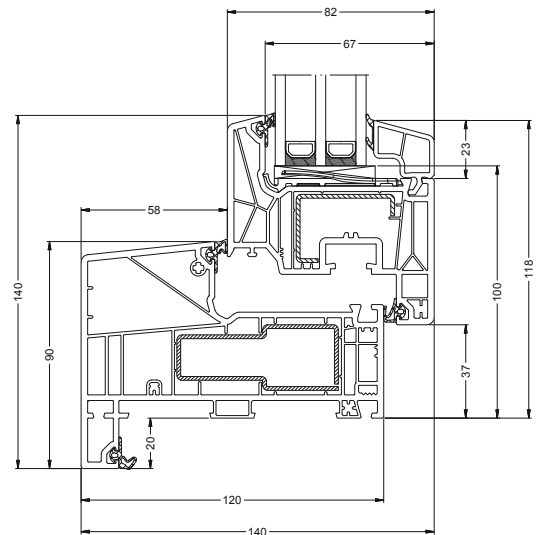
Schüco LivIng Variant with 15° slope



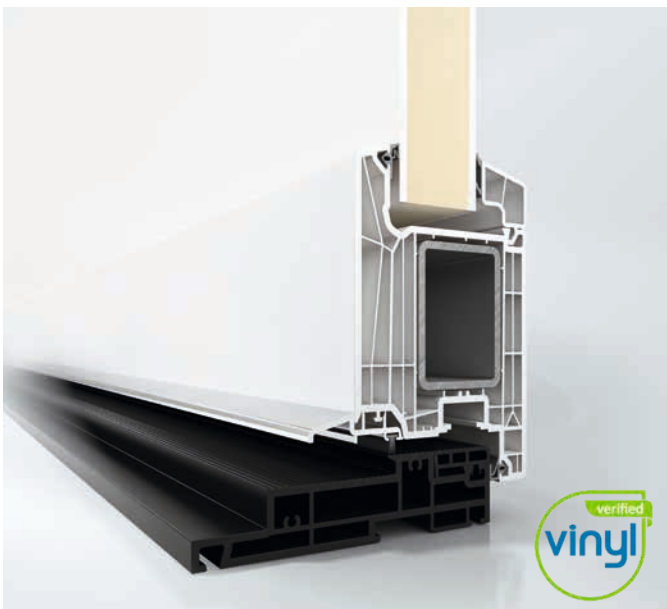
Section detail
Schüco LivIng Variant with 15° slope; scale 1:3



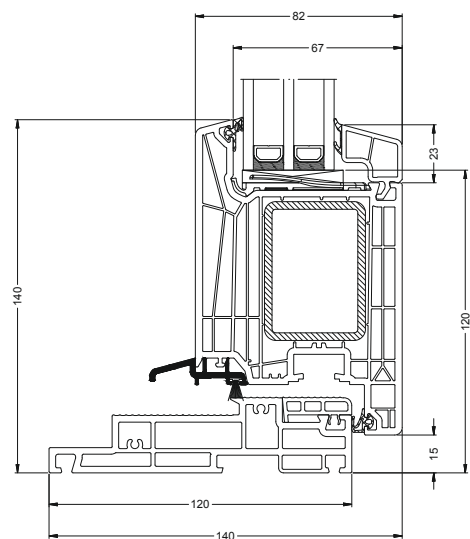
Schüco LivIng Variant with 6° slope



Section detail
Schüco LivIng Variant with 6° slope; scale 1:3



Schüco LivIng Variant entrance door system



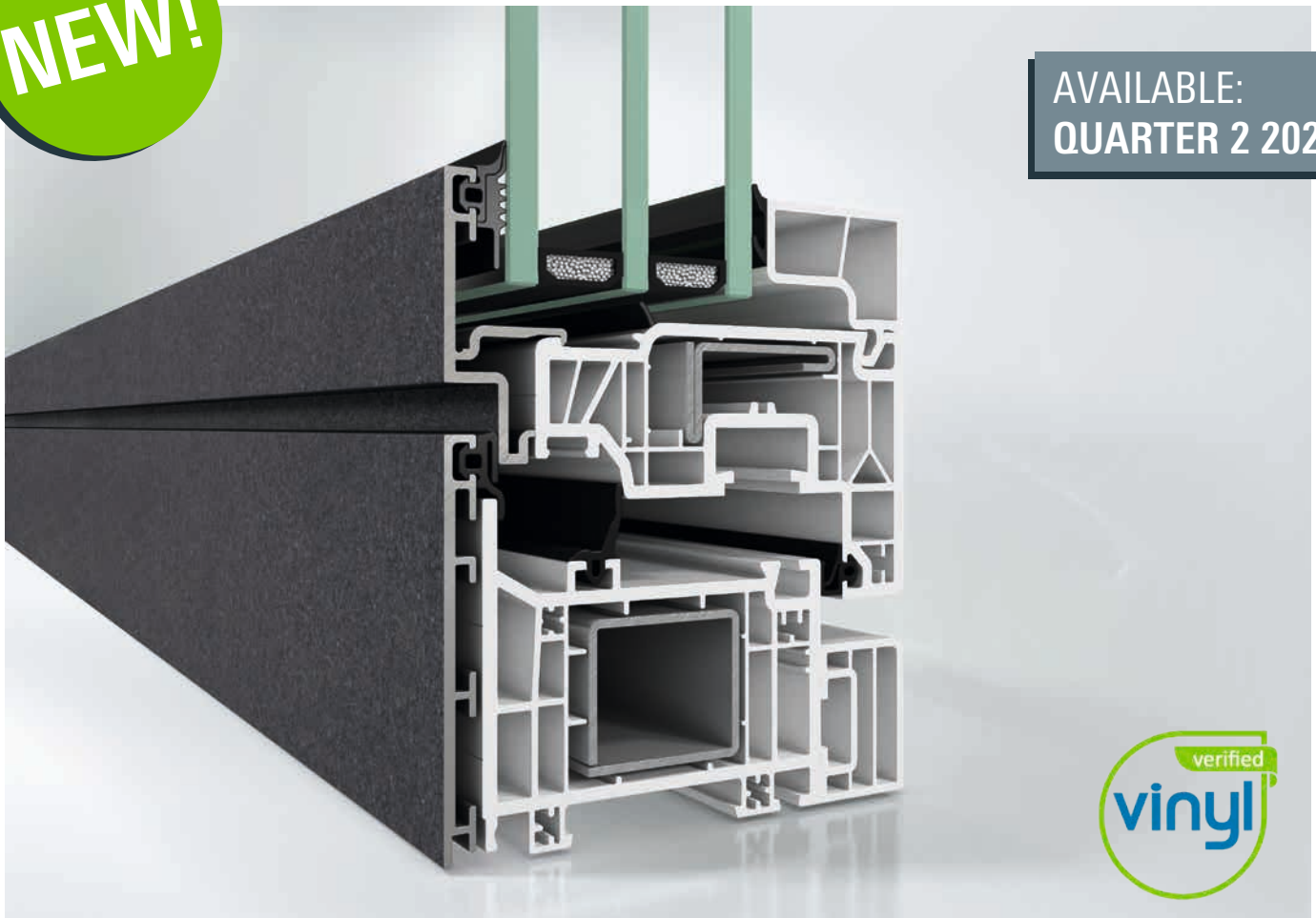
Section detail
Schüco LivIng Variant entrance door system; scale 1:3

Schüco Symbiotic

The best of both worlds: Schüco Symbiotic combines aluminium and PVC-U in a completely new way to create stylish windows which offer a number of design options using both materials.

NEW!

AVAILABLE:
QUARTER 2 2021



PRODUCT HIGHLIGHTS

- Minimal face width of 110 mm
- Angular, flush-fitted design both inside and outside
- Matching glazing beads are available
- Can be combined with Schüco aluminium window systems in one building project thanks to identical design
- Optimum protection against wind, rain and noise thanks to three sealing levels made from high-quality EPDM
- Glazing is on one level in fixed lights and vent units, ensuring a harmonious look
- External colour by means of powder coating or anodising, internal colour with Schüco AutomotiveFinish or Schüco UnlimitedFinish
- Thanks to the excellent structural properties, larger units than those with aluminium cover caps are possible, for example

PVC-U is easy to maintain and an excellent choice as a window material due to its excellent cost/performance ratio and very good insulation properties. Aluminium is light, solid, corrosion-resistant, easy to maintain and its high-quality appearance makes it the perfect material for creative and contemporary architecture. With its many years of expertise in both materials, Schüco has now brought them together in one PVC-U/aluminium window design. The Schüco Symbiotic centre gasket construction achieves a thermal insulation value of $U_f = 1.1 \text{ W}/(\text{m}^2\text{K})$. An insulation profile is available as an option for the outer frame in order to achieve even better values. The range will initially consist of two outer frames and two vent frames, a threshold solution as well as corresponding mullion and double-vent profiles. This means that single and multi-part units can be created with a puristic design and a wide variety of design requirements can be taken into account. Schüco Symbiotic impresses with a basic depth of 74 mm a face width of just 110 mm for the system cross section. In fixed lights and vent units, the glazing is in the same vertical plane, creating a harmonious façade appearance from the outside of aluminium without glass offset.

The system can accommodate glazing from 40 to 58 mm. The glazing rebate gasket used here comes from the Schüco aluminium portfolio. The vent frame has an adhesive rebate for optional glass bonding so that larger units can also be fabricated. Alternatively or additionally, steel reinforcements can be used. The aluminium is coloured by means of powder coating or anodising, while there is a wide range of foils to choose from for the PVC-U material used for the inside.

Patented sealing technology

The new PVC-U/aluminium window construction is fitted with weldable EPDM vent rebate gaskets that are rolled in as standard. This creates a continuous gasket frame with soft inner corners even after the welding process – with increased watertightness in the corner areas and a closed corner appearance.

Efficient fabrication

The preassembled aluminium external unit is mounted on the PVC-U frame by means of mechanical fixing with a rotatable bracket on the outer frame and by means of clips on the vent.

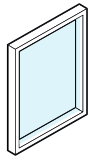
Technical information	Schüco Symbiotic
Dimensions	
Basic depth of outer frame	74 mm
Basic depth of vent frame	94 mm
Possible glazing thickness	40 mm – 58 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_f = \text{to } 1.1 \text{ W}/(\text{m}^2\text{K})^{***}$
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	Being tested
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)	9A***
Resistance to wind load in accordance with DIN EN 12210 (class)**	C5/B5***
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***
Load-bearing capacity of safety devices TBDK	Being tested

* Dependent on profile and glazing

** Dependent on profile

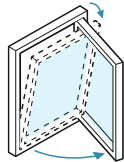
*** Target value (pending)

OPENING TYPES

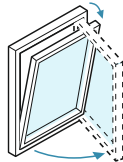


Fixed glazing

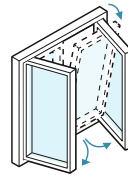
Inward-opening:



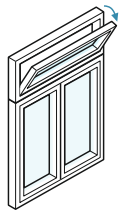
Side-hung, turn/tilt,
bottom-hung vent



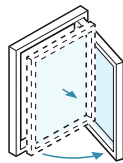
Tilt-before-turn
vent



Double-vent vent



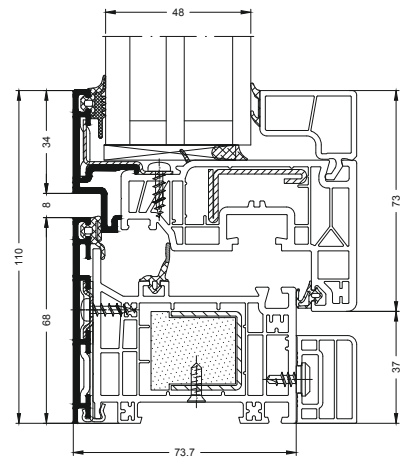
Toplight vent



Parallel-opening si-
de-hung vent

FABRICATION BENEFITS

- Efficient fabrication as aluminium frame can be easily clipped onto the PVC-U vent frame
- Optimised glazing rebate for optional glass bonding
- Single-part and multi-part units possible
- An insulation profile can optionally be inserted in the outer frame for improved thermal insulation

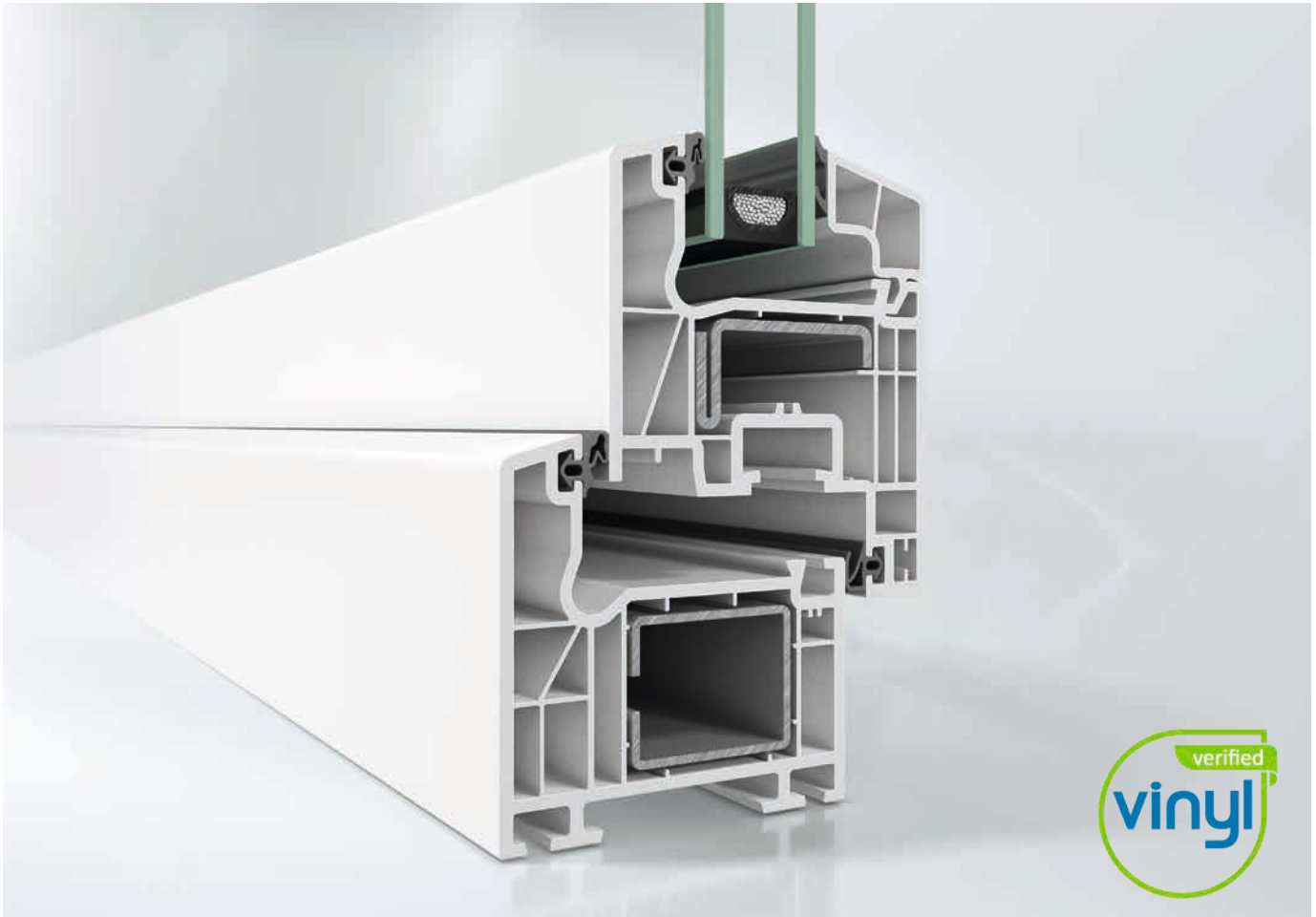


Section detail of
Schüco Symbiotic, scale: 1:2.5



Schüco CT 70

As a rebate gasket system, the Schüco CT 70 system is a good all-rounder with excellent thermal insulation, making it the perfect choice 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 special requirements
- Integration in the Schüco colour range with Schüco TopAlu, Schüco AutomotiveFinish and Schüco UnlimitedFinish
- PVC-U profiles made from suitable material specifically for the most extreme climatic conditions are available

The Schüco 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 sealing levels, the unit's excellent sound reduction provides additional comfort for the user.

Schüco CT 70 boasts a good take up of tolerances due to the 5 mm gasket clearance 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 CT 70 is available in different vent and frame contour options. Windows, window doors and parallel sliding, tilt/slide and parallel opening units can be constructed with the Schüco CT 70 system as well as entrance and side entrance doors.



Schüco CT 70 Rondo



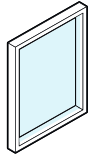
Schüco CT 70 Vision

Technical information	Schüco CT 70 Classic/ Rondo/ Vision	Schüco CT 70 entrance door
Dimensions		
Basic depth of outer frame	70 mm	70 mm
Basic depth of vent frame	70 mm / 78 mm / 80 mm	70 mm
Possible glazing thickness	6 mm – 42 mm	6 mm – 42 mm
Tests and standards		
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 1.2 - 1.5 \text{ W}/(\text{m}^2\text{K})$	$U_f = 1.4 - 1.5 \text{ W}/(\text{m}^2\text{K})$
Sound reduction in accordance with DIN EN ISO 140-3 (maximum)*	$R_{w,P} = 46 \text{ dB}$	$R_{w,P} = 38 \text{ dB}$
Burglar resistance in accordance with DIN EN 1627	RC2	RC2
Air permeability in accordance with DIN EN 12207 (class)	4	2
Watertightness in accordance with DIN EN 12208 (class)	9A	4A
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
Load-bearing capacity of safety devices TBDK	Requirement met	Requirement met

* Dependent on profile and glazing

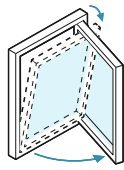
** Dependent on profile

OPENING TYPES

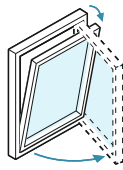


Fixed glazing

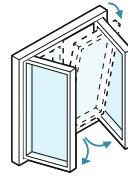
Inward-opening:



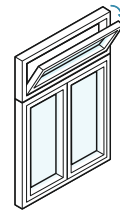
Side-hung, turn/tilt,
bottom-hung vent



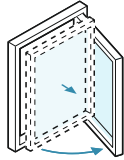
Tilt-before-turn
vent



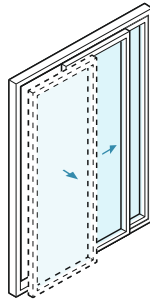
Double-vent vent



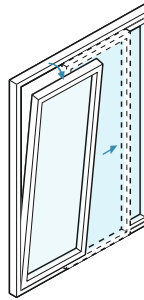
Toplight vent



Parallel-opening
side-hung vent

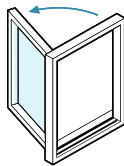


Parallel sliding (PAS)
window

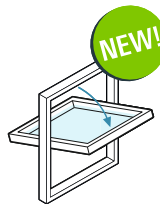


Tilt/slide vent

Outward-opening:



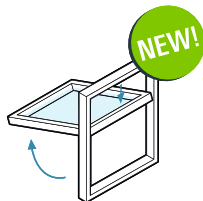
Side-hung vent



Horizontal pivot
window



Side-hung
casement



Top-hung
casement

FABRICATION BENEFITS

- High-quality gaskets rolled in the factory
- 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
- Glass bonding can be implemented using additive technology by means of a standard vent profile or with an adhesive vent profile
- 5.8 m profile lengths designed to be ideal for cutting and transportation in containers



Schüco CT 70 renovation outer frame



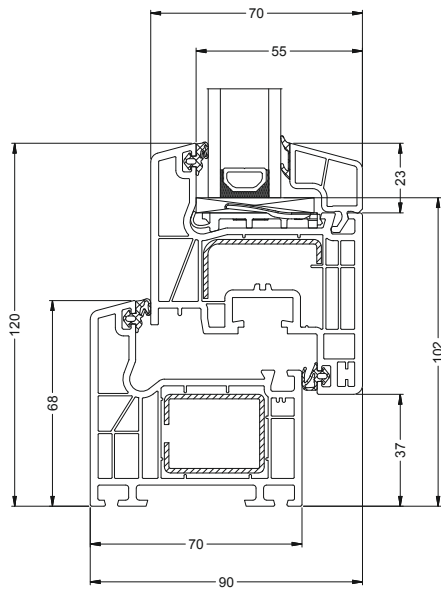
Schüco CT 70 Monoblock



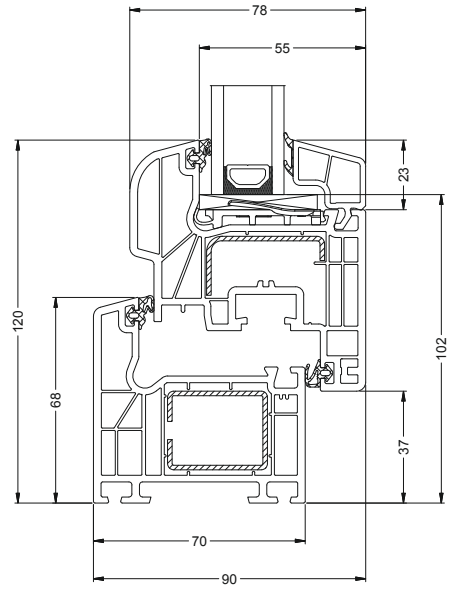
Schüco CT 70 entrance door system, inward-opening



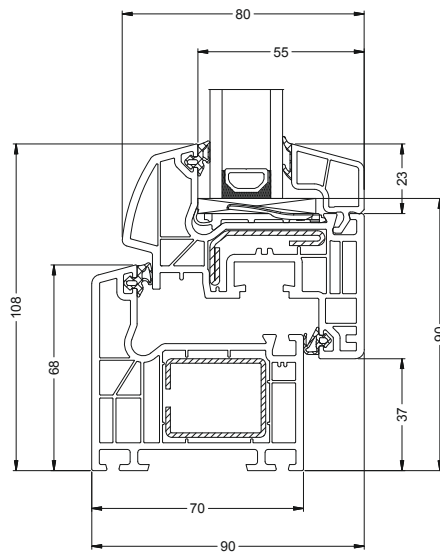
Schüco CT 70 entrance door system, outward-opening



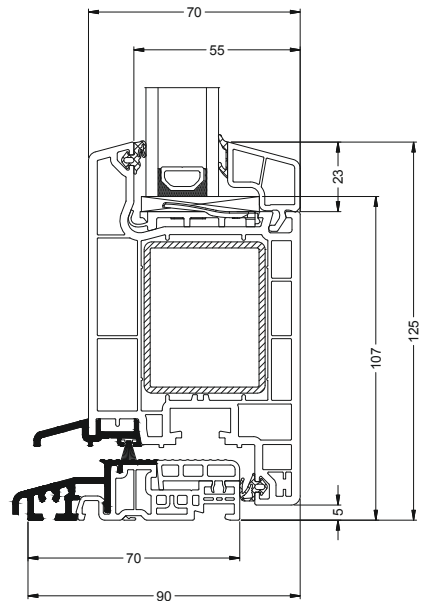
Section detail
Schüco CT 70 Classic; scale 1:2.5



Section detail
Schüco CT 70 Rondo; scale 1:2.5



Section detail
Schüco CT 70 Vision; scale 1:2.5

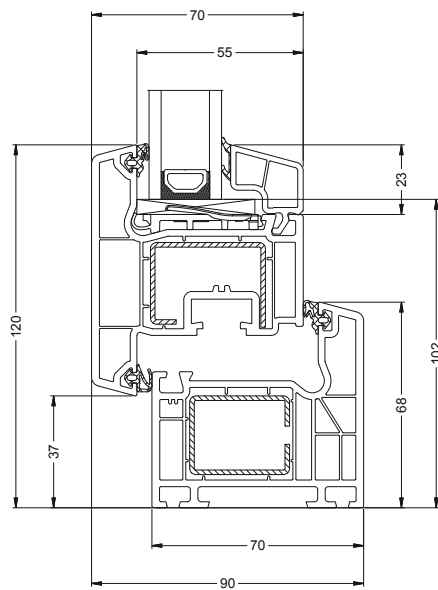


Section detail
Schüco CT 70 entrance door system
Inward-opening; scale 1:2.5

NEW!



Schüco CT 70 Casement



Section detail
Schüco CT 70 Casement; scale 1:2.5

Schüco CT 70 Accent

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



PRODUCT HIGHLIGHTS

- 3-chamber system with excellent thermal insulation properties
- Can be used in newbuilds and renovations
- A vertical sliding window is available for the renovation of 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 reliability and protection against draughts, cold and moisture
- Different reinforcing profiles ensure maximum stability and durability, even for special requirements
- Unit security up to SKG class 2

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

From a technical perspective, the system features impressive reinforcing chambers, perfectly dimensioned 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 compatibility with the Schüco CT 70 basic system results in increased use of the same parts. This means that units from the Schüco CT 70 Accent system, for example, can also be fabricated with the three frame contours Classic, Rondo and Vision.

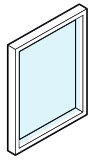
This allows greater individuality and more design freedom. Another design advantage is the integration in the Schüco colour range, with a wide range of design foils and the exclusive metallic shades of the Schüco AutomotiveFinish series. For the visual design of the foiled window and door units, the 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 CT 70 Accent profile system.

Technical information	Schüco CT 70 Accent Classic/Rondo/Vision	Schüco CT 70 Accent door
Dimensions		
Basic depth of outer frame	112 mm	112 mm
Basic depth of vent frame	70 mm / 78 mm / 80 mm	70 mm
Possible glazing thickness	4 mm – 42 mm	4 mm – 42 mm
Tests and standards		
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 1.4 \text{ W}/(\text{m}^2\text{K})$	$U_f = 1.4 - 1.5 \text{ W}/(\text{m}^2\text{K})$
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 TBDK	Requirement met	Requirement met

* Dependent on profile and glazing

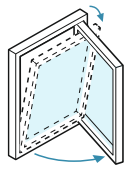
** Dependent on profile

OPENING TYPES

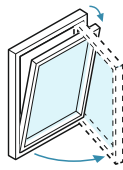


Fixed glazing

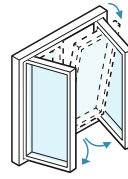
Inward-opening:



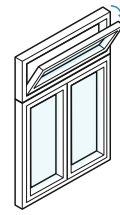
Side-hung, turn/tilt, bottom-hung vent



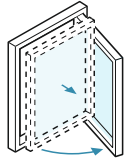
Tilt-before-turn vent



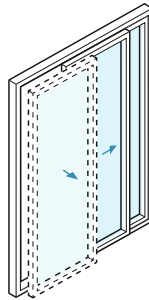
Double-vent vent



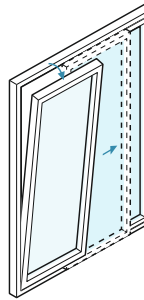
Toplight vent



Parallel-opening side-hung vent

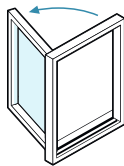


Parallel sliding (PAS) window



Tilt/slide vent

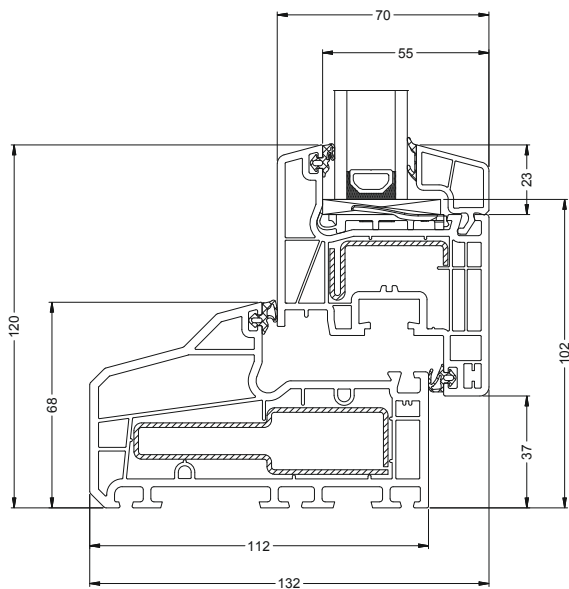
Outward-opening:



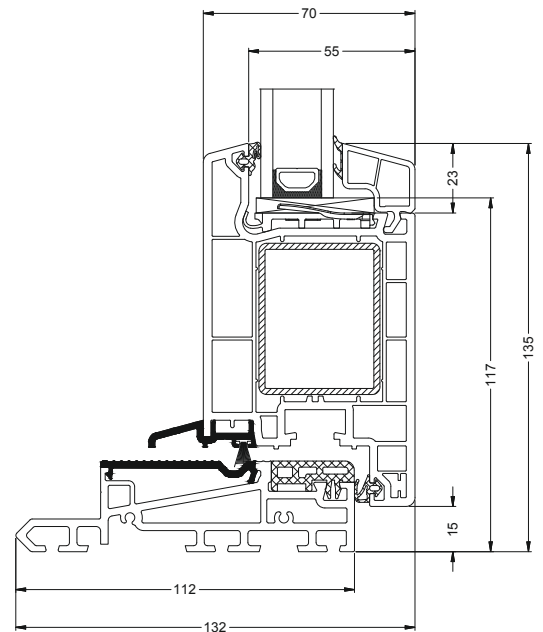
Side-hung vent

FABRICATION BENEFITS

- Incorporation in the Schüco 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
- Closed sealing level in the block outer frame using weld-on SEBS gaskets
- Visible or concealed outer frame drainage possible on several levels to suit requirements
- Efficient fabrication
- Glass bonding can be implemented using additive technology by means of a standard vent profile or with an adhesive vent profile



Section detail of Schüco Corona CT 70 Accent; scale 1:2.5



Section detail of Schüco Corona CT 70 Accent entrance door system; scale 1:2.5





Lift-and-slide and sliding systems

56

- 58 Schüco ThermoSlide
- 62 Schüco LivingSlide
- 68 Schüco EasySlide – new generation
- 72 Schüco S 150
- 76 Schüco SoftSlide

Schüco ThermoSlide

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



PRODUCT HIGHLIGHTS

- Excellent thermal insulation that is unique on the market and up to passive house level
- With a frame trim basic depth of 219 mm, it is perfect for newbuilds
- Level transition to the outside for barrier-free 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 all-round sealing levels also offer outstanding protection against draughts, cold, moisture and noise. The Schüco ThermoSlide system meets equally high requirements in terms of energy efficiency. In addition to the optimised chamber geometry, a thermally broken frame trim reinforcement and the matching 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 gasket material provides unique, superlative recovery properties and a long service life. Additionally, anti-friction gaskets are used in the centre section.

The threshold allows attachment to the building structure with sealing up to the outer edge of the unit, which achieves full weathertightness in this area. Furthermore, the warm PVC-U profile on the room side prevents the build-up of condensation. To balance out the floor construction and avoid inaccuracies during installation and resulting stiffness for the entire system, the attachment 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 is provided for vent weights up to max. 330 kg. Finally, the concealed room-side threshold connectors ensure a visually appealing transition from the threshold to the frame trim.

Technical information	Schüco ThermoSlide
Dimensions	
Basic depth of outer frame	219 mm
Basic depth of vent frame	82 mm
Possible glazing thickness	16 mm – 54 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



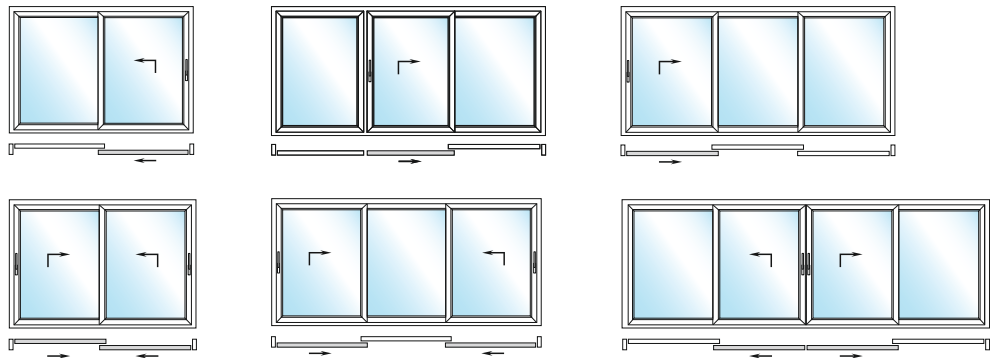
FABRICATION BENEFITS

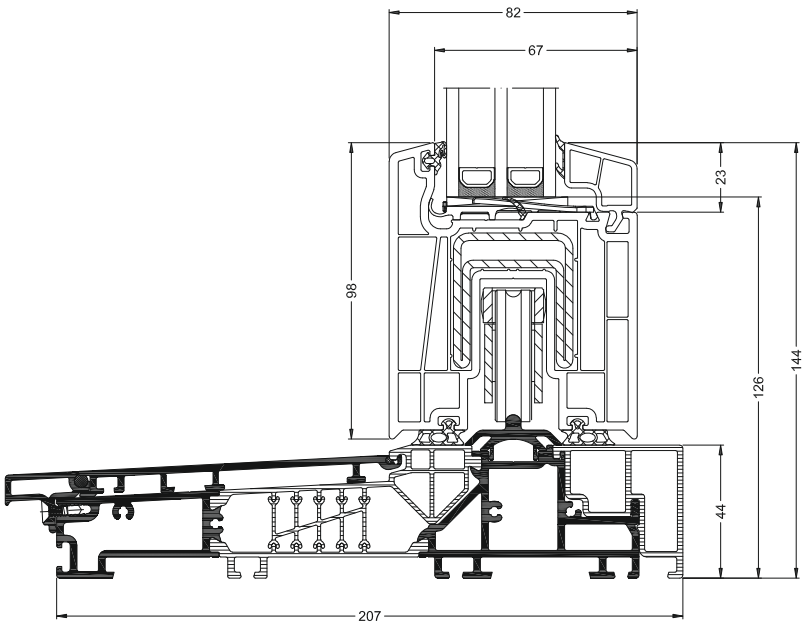
- Faster installation possible with lower use of material and therefore better economy efficiency
- Frame trim and threshold connectors also simplify installation
- Straight cutting of all profiles (apart from the vent profile) means that time-consuming machining work is no longer required
- Main and supplementary profiles are supplied cut to the optimum length
- Vent frames can be processed on CNC machines
- System-specific fixing means ensure simple and secure installation of the lift-and-slide roller carriages
- Optimised glazing rebate for optional glass bonding



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.





Section detail of Schüco ThermoSlide, scale 1:2.5



Schüco LivingSlide

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



PRODUCT HIGHLIGHTS

- Integration in the Schüco Living platform enables increased use of identical parts and system reliability
- Delivery includes Schüco lift-and-slide fittings and handles 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
- Panorama design available for fixed lights
- 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 Schüco UnlimitedFinish design foils
- Outstanding thermal insulation and isothermal flows thanks to thermally broken threshold as well as thermally broken frame trim reinforcing profiles made from aluminium

The innovative Schüco LivIngSlide lift-and-slide system has been designed on the basis of the Schüco LivIng system dimensions, with a basic depth of the vent frame of 82 mm. The resulting compatibility of the systems is due to the large number of accessory 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 secure centring and fixing. It is also possible to use additive adhesive technology.

Another strength of Schüco LivIngSlide is its attractive appearance. 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	
Basic depth of outer frame	194 mm
Basic depth of vent frame	82 mm
Possible glazing thickness	16 mm – 54 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 1.3 \text{ W/(m}^2\text{K)}$
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/SKG	RC2/SKG class 2
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
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

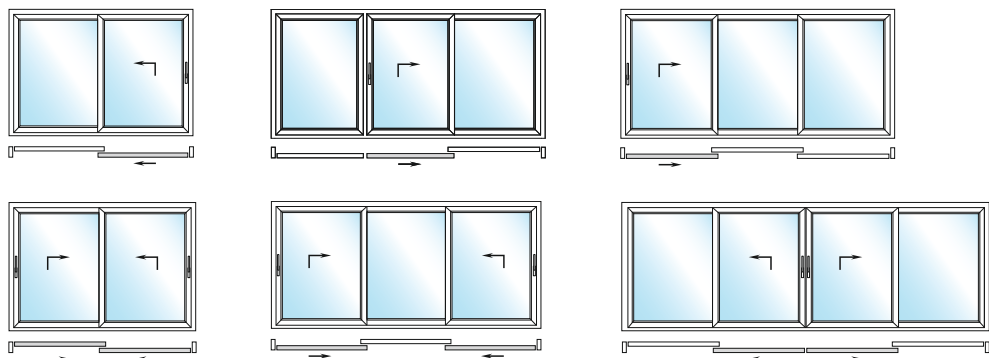
** Dependent on profile

FABRICATION BENEFITS

- 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
- Selected main and supplementary profiles are supplied cut to the optimum length
- Stable, closed vent cross section prevents deformation during fabrication without having to take additional measures
- EPDM seals with positioning aids for faster and more reliable installation
- Using system-specific roller carriage fixings, guarantees optimal axial installation of the roller carriage and prevents installation errors
- Connector sets with moulded parts are available for sealing. This reduces the amount of sprayable sealant and simplifies fabrication considerably
- The same glazing beads and glazing accessories as the Schüco Living system can be used
- Optimised glazing rebate in the Panorama vent for optional glass bonding
- An economical solution for the steel frame trim reinforcement is available
- Optimum accommodation of fabrication and installation tolerances
- Pre-fabricated threshold kits minimise the fabrication throughput times

OPENING TYPES

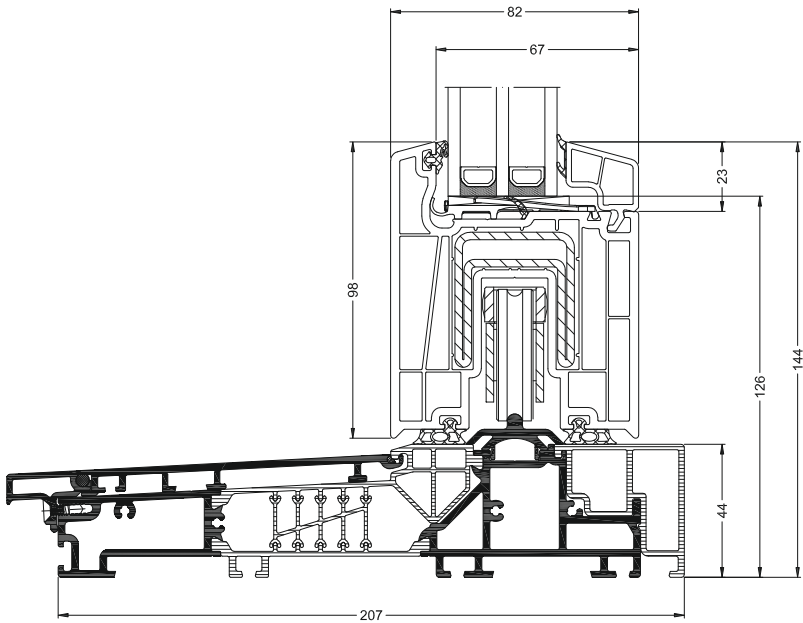
Schüco LivingSlide is available as a complete system. Different unit types with fixed and moving vents can therefore be used as single and double-track versions. This means more flexibility in fabrication and allows all customer wishes to be fulfilled.



PRE-FABRICATED THRESHOLD KITS AVAILABLE IMMEDIATELY.

NEW!





Section detail of Schüco LivIngSlide, scale 1:2.5



Inside view of Schüco LivIngSlide

 PANORAMA DESIGNS

Schüco LivingSlide with Panorama fixed light



Schüco LivingSlide with Panorama vent



AVAILABLE:
QUARTER 4 2020



Schüco LivIngSlide with 0 mm level threshold



AVAILABLE:
QUARTER 1 2021

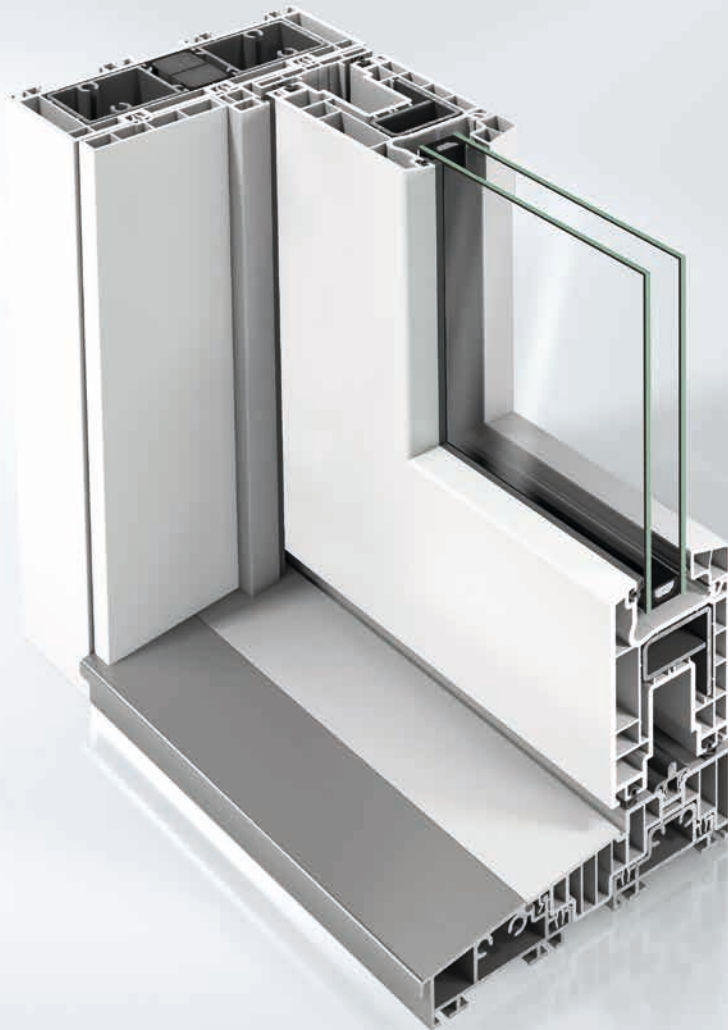
Schüco LivIngSlide with electronic drive



AVAILABLE:
QUARTER 2 2021

Schüco EasySlide – new generation

The deliberate evolution of the functional Schüco EasySlide lift-and-slide door system has enhanced the advantages which fabricators have come to value over the years without deviating from the basic construction and its proven properties.



AVAILABLE:
QUARTER 3 2021



PRODUCT HIGHLIGHTS

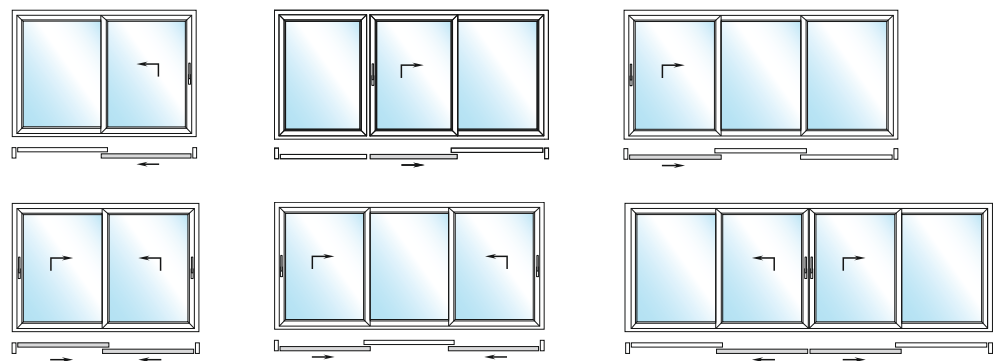
- Excellent thermal insulation thanks to the 70 mm basic depth with optimised threshold and frame trim construction
- A variety of opening types are possible
- High level of design flexibility thanks to different surface finish options
- New threshold for even better thermal insulation; adapted to the threshold solution of the Schüco LivingSlide Premium lift-and-slide system
- Use of triple glazing possible for glass thicknesses of up to 42 mm
- Very good stability for vent weights up to 300 kg
- Delivery includes lift-and-slide fittings and handles from a single source
- PVC-U profiles made from suitable material specifically for the most extreme climatic conditions are available

Schüco EasySlide is based on the Schüco CT 70 system. The frame trim profile design with a basic depth of 167 mm and the vent frame construction of 70 mm provide 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. A new 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 provide a large opening through the middle or at the sides.



Technical information	Schüco EasySlide – new generation
Dimensions	
Basic depth of outer frame	167 mm
Basic depth of vent frame	70 mm
Possible glazing thickness	4 mm – 42 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	U_f value to 1.4 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/SKG	RC2 / SKG class 2***
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

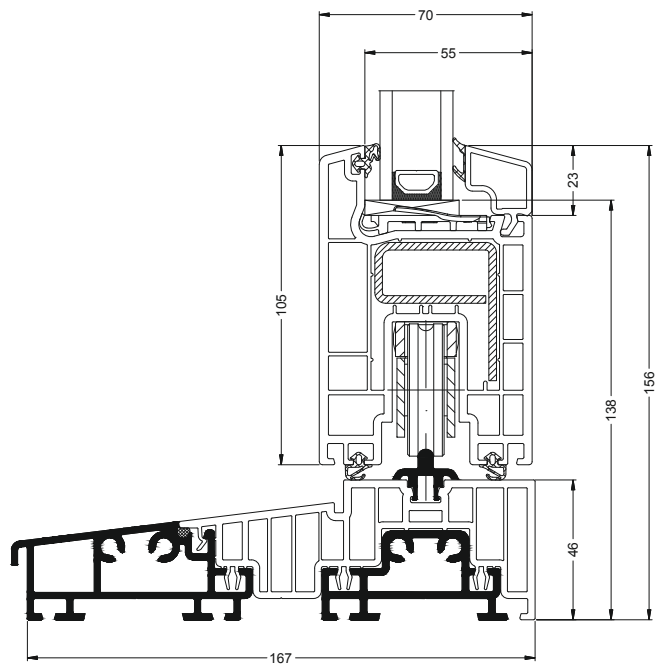
** Dependent on profile

*** Target value (pending)



FABRICATION BENEFITS

- Limited range of components
- EPDM gaskets rolled in the factory
- All EPDM joint sealing pieces have self-adhesive tape on one side to facilitate quick and cost-effective installation
- Main and supplementary profiles are supplied cut to the optimum length
- A small number of cutting sizes
- System-specific fixing means ensure simple and secure installation of the lift-and-slide roller carriages
- Simplified and reliable threshold installation and sealing
- Additive glass bonding by means of a standard vent profile is possible
- Comprehensive range of accessories
- 5.8 m profile lengths designed to be ideal for cutting and transportation in containers



Section detail of Schüco EasySlide – new generation, scale 1:2.5



Schüco S 150

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



PRODUCT HIGHLIGHTS

- Excellent thermal insulation thanks to the multi-chamber design
- EPDM gaskets machine-rolled in the factory for optimum protection against the wind, cold and moisture
- Designs in resistance class 2 / SKG class 2 are possible using an aluminium interlock and an optional RC2 kit
- High level of design flexibility thanks to different surface finish options
- A variety of opening types are possible
- Combined opening and sliding function for the handles
- Delivery includes lift-and-slide fittings and handles from a single source
- PVC-U profiles made from suitable material specifically for the most extreme climatic conditions are available

The Schüco S 150 sliding door system offers excellent thermal insulation thanks to its ingenious construction. The 18 mm glass edge cover and the continuous PVC-U outer frame in particular reduce heat loss. Two brush seals provide increased weathertightness for the unit as well as protection against draughts, the cold and moisture. The Schüco S 150 system allows sliding doors with vent weights up to 250 kg to be achieved. The perfectly dimensioned reinforcing profiles thereby guarantee maximum stability and durability while being easy to use.

At the same time, Schüco S 150 offers narrow face widths for maximum light penetration. Because of the special profile construction, there are no obstructive tracks, even in units with fixed lights.

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.

Technical information	Schüco S 150
Dimensions	
Basic depth of outer frame	150 mm
Basic depth of vent frame	70 mm
Possible glazing thickness	4 mm – 42 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 1.6 - 1.8 \text{ W}/(\text{m}^2\text{K})$
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
Burglar resistance in accordance with DIN EN 1627/SKG	RC2 / SKG class 2

** Dependent on profile

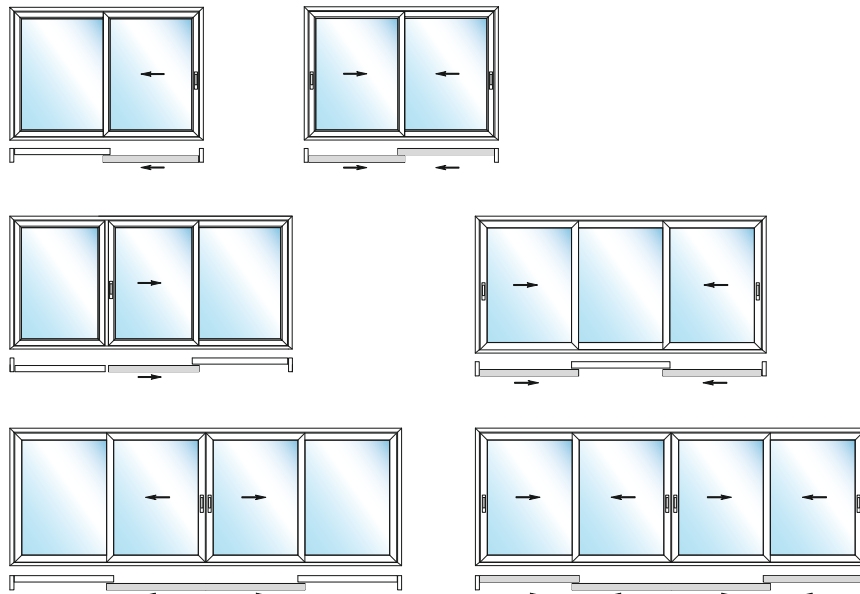


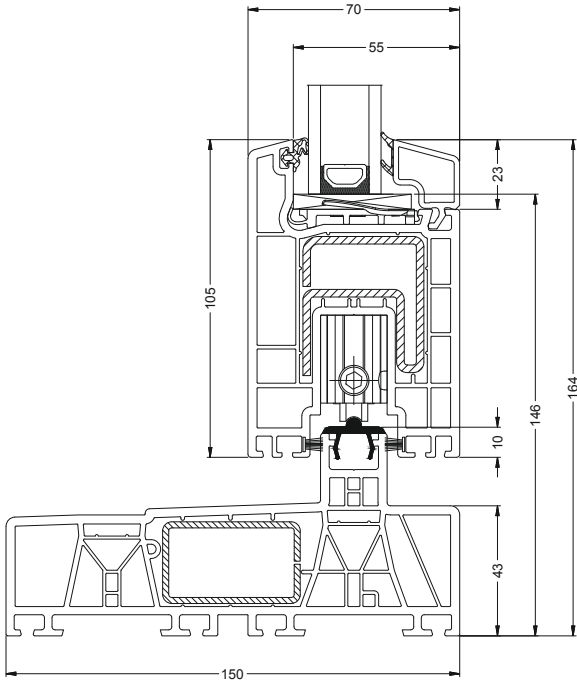
FABRICATION BENEFITS

- Economical and efficient fabrication due to 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
- Additive glass bonding by means of a standard vent profile is possible
- 5.8 m profile lengths designed to be ideal for cutting and transportation in containers



OPENING TYPES





Section detail of Schüco S 150, scale 1:2.5



Schüco SoftSlide

The new Schüco SoftSlide PVC-U system is used as a patio door, porch or partition unit and offers excellent thermal insulation.

NEW!

**AVAILABLE:
QUARTER 4 2020**



PRODUCT HIGHLIGHTS

- System reliability thanks to an extensive range of attachment and supplementary profiles
- Double, triple, quadruple and sextuple-vent units with vent weights up to 120 kg are possible in many different configurations
- A higher level of burglar resistance can be achieved by using the lockable gear-box and the aluminium interlock
- High level of design flexibility thanks to different surface finish options with Schüco AutomotiveFinish and Schüco UnlimitedFinish
- Even more transparency is provided by the optional Panorama fixed light, which in addition to its appealing aesthetic also improves the U value of the unit
- The standard outer frame can be combined with a threshold
- A complete solution including threshold connector and seal
- Triple-track outer frame available (up to six sliding vents possible)
- Narrow window vent ensures maximum light penetration
- Individual designs can be created through optional vent glazing bars
- Delivery includes sliding fittings and handles
- PVC-U profiles made from suitable material specifically for the most extreme climatic conditions are available

The Schüco SoftSlide system is characterised by narrow vent and outer frames. These have minimal face widths for maximum light penetration, as well as high levels of flexibility and functionality. The comprehensive range of attachment and supplementary profiles also offers system reliability and unit variability. This means that a variety of unit types can be constructed with sidelights, toplights or

bottom lights as well as fixed or moving vent frames. 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, an additional steel reinforcement is used. A gear-box with anti-lift-out device offers increased security.



Schüco SoftSlide
Panorama fixed light

Technical information	Schüco SoftSlide
Dimensions	
Basic depth of outer frame	74 mm
Basic depth of vent frame	50 mm
Possible glazing thickness	4 mm – 28 mm
Tests and standards	
Thermal insulation in accordance with DIN EN 12412-2	$U_f = 1.4 - 2.3 \text{ W}/(\text{m}^2\text{K})$
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

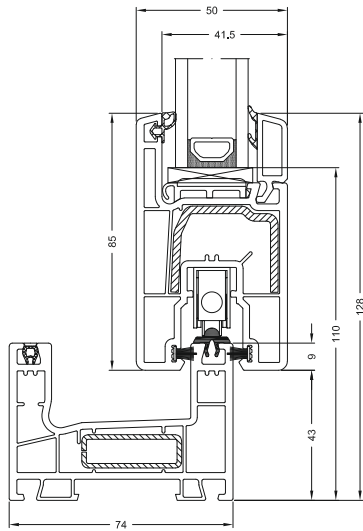
** Dependent on profile

*** Target value (pending)

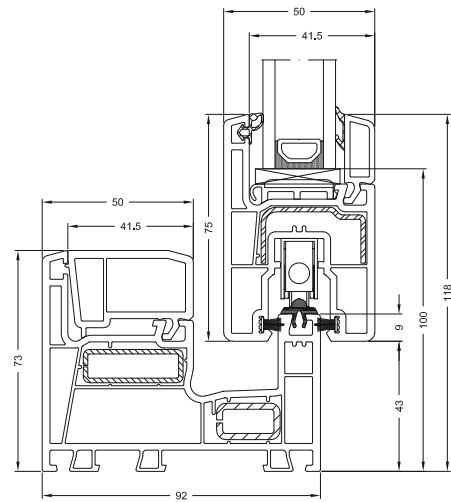


FABRICATION BENEFITS

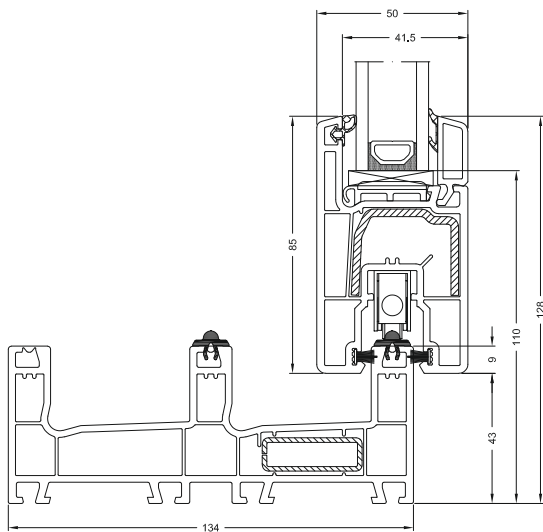
- Sliding vents with glazing rebate gasket rolled in the factory and with a rolled-in brush seal
- 5.8 m profile lengths designed to be ideal for cutting and transportation in containers
- Small number of parts for efficient fabrication, simplified ordering and minimised warehouse storage
- Gearbox machining 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



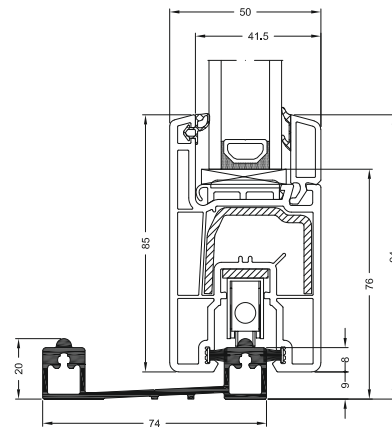
Section detail of Schüco SoftSlide, scale 1:2.5



Section detail of Schüco SoftSlide with Panorama fixed light, scale 1:2.5

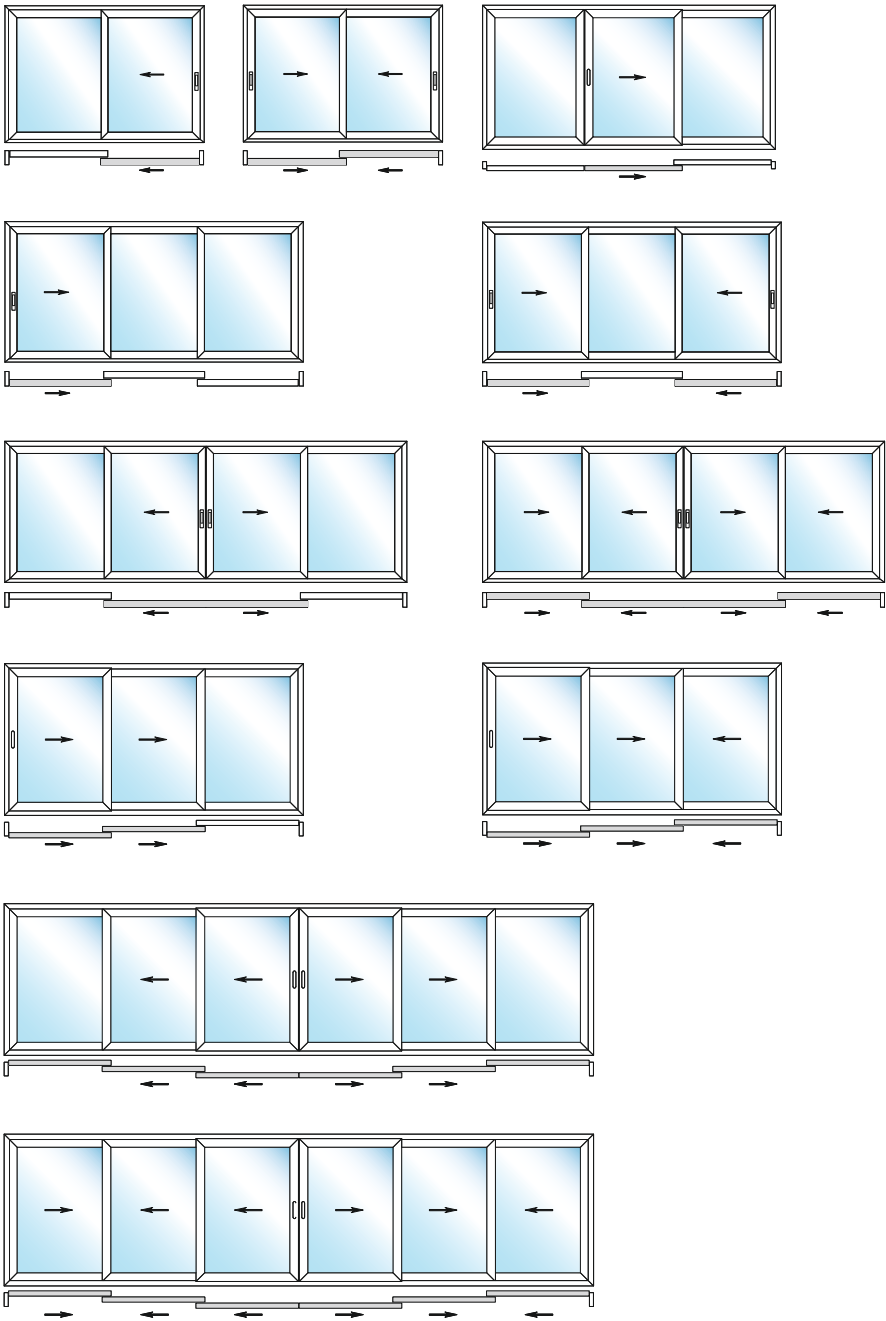


Section detail of Schüco SoftSlide, triple-track, scale 1:2.5



Section detail of Schüco SoftSlide with threshold, scale 1:2.5

 **OPENING TYPES**





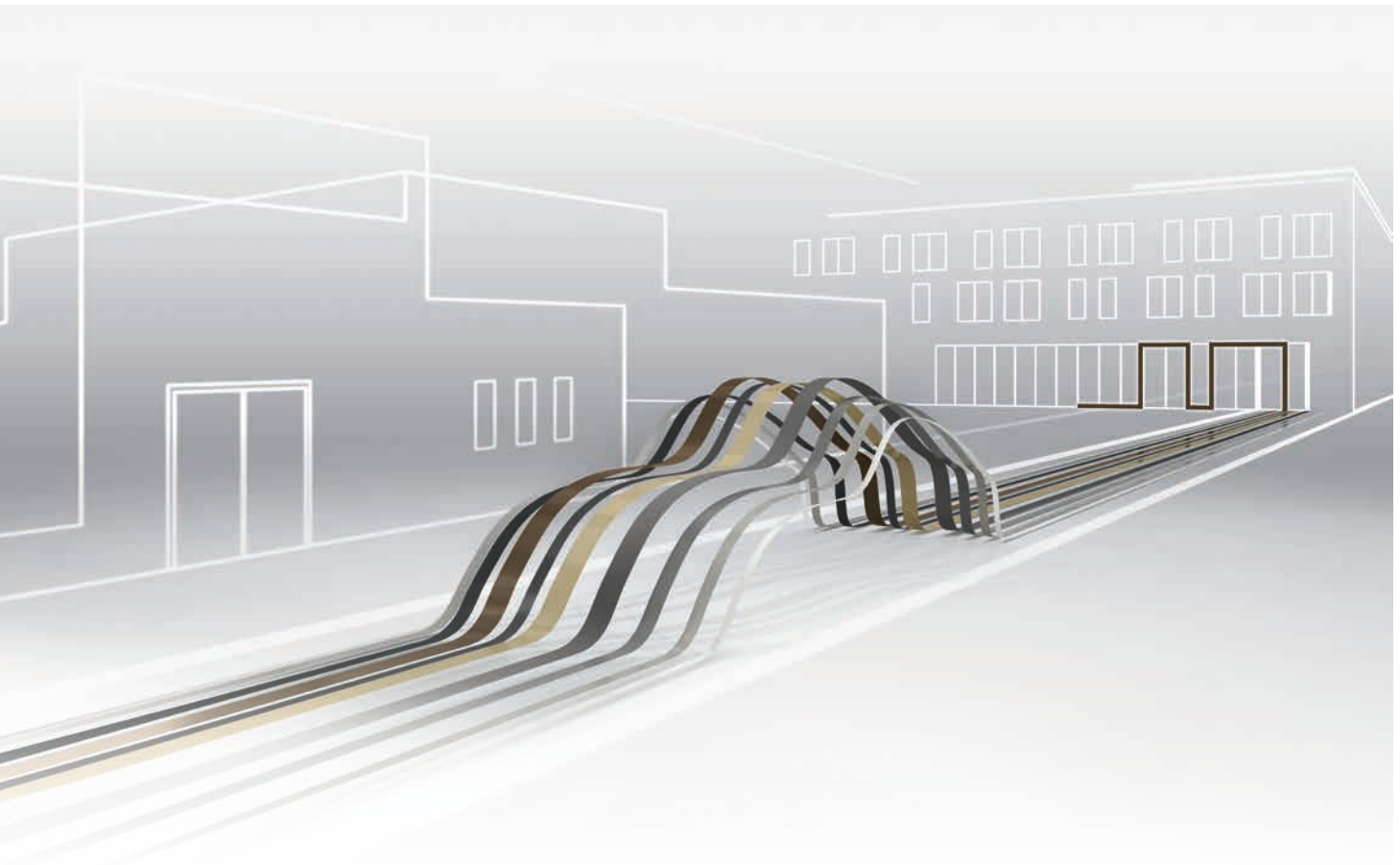
Surface finishes

80

- 82 Schüco AutomotiveFinish
- 84 Schüco TopAlu
- 86 Schüco UnlimitedFinish

Schüco AutomotiveFinish

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



PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- 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 succeeded in giving 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 coating technology, windows, doors and accessories can 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

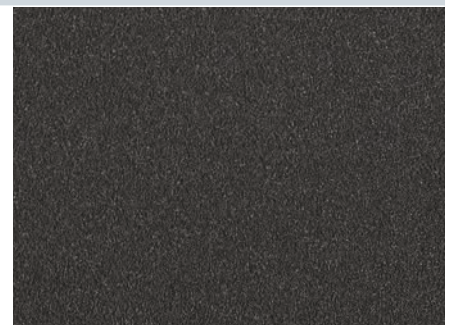
Colour range for use inside and outside



Metallic Black



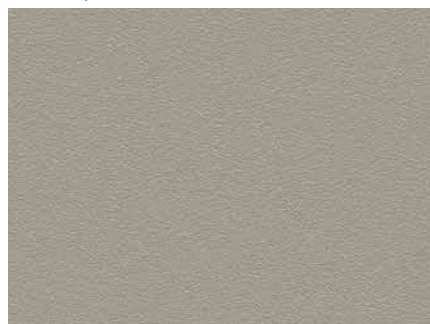
Dark Grey



SAF-DB 703



SAF-DB 703 Line



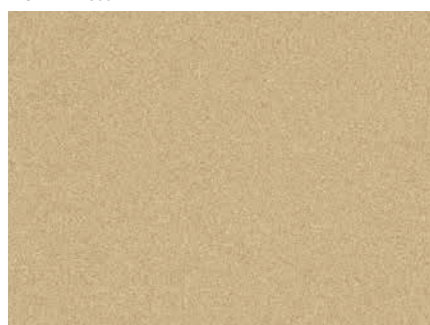
SAF-RAL 9007



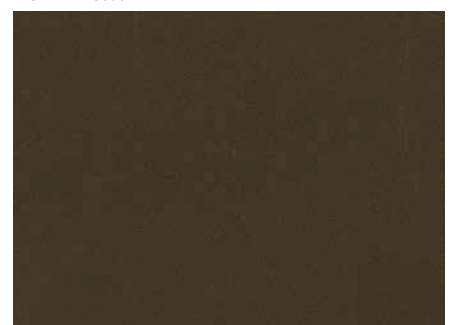
SAF-RAL 9006



Light Silver



SAF-RAL 140-M



Deep Bronze

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

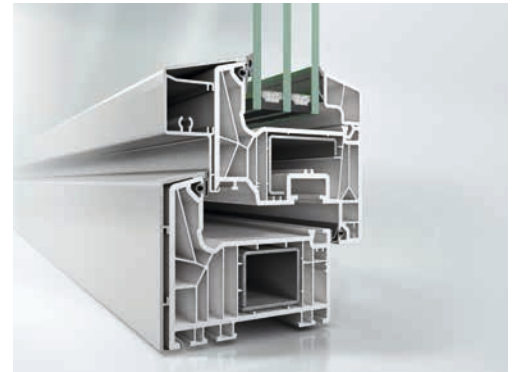
colours. The material is also particularly resistant to environmental influences. Schüco TopAlu is available for Schüco LivIng Alu Inside, Schüco LivIng, Schüco CT 70, Schüco ThermoSlide, Schüco LivIngSlide and Schüco EasySlide systems.



PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

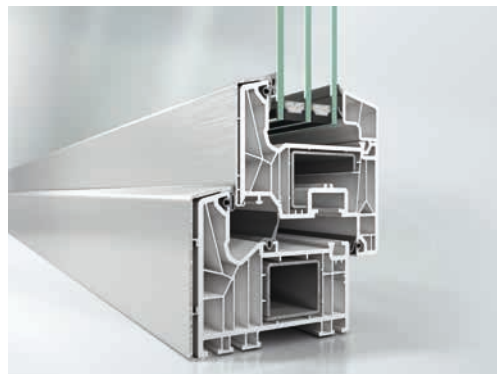
- Efficient fabrication and simple clip-on installation
- Supplied with coating
- Allows the perfect integration of PVC-U units in aluminium façades
- First-class design options for the aluminium surface
- Colour variation between outer frame and vent frame possible

The variety of designs in the Schüco PVC-U systems has been extended to include five aluminium cover caps for vent profiles, which each create an individual look.



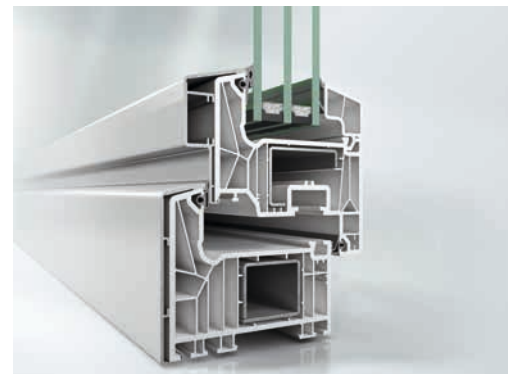
**Schüco TopAlu Pure
for Schüco Living**

This contour type creates a flush appearance between the outer frame and vent frame, resulting in a virtually flat surface.



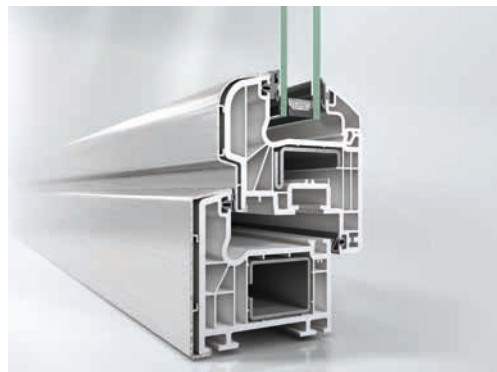
**Schüco TopAlu Classic
for all PVC-U systems**

This contour type works with all Schüco PVC-U systems and showcases the classic angular contour of outer and vent frames.



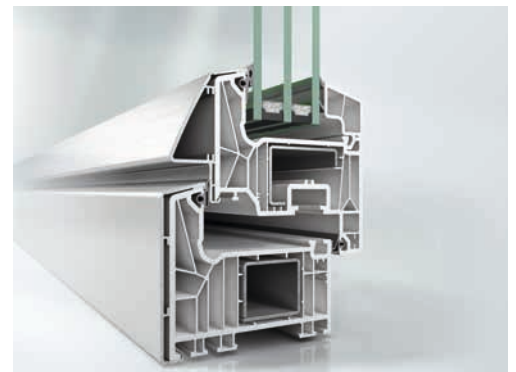
**Schüco TopAlu Viva
for Schüco Living**

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



**Schüco TopAlu Rondo
for Schüco CT 70**

This contour type for the Schüco CT 70 Rondo system cannot fail to impress with its rounded vent frames, offering a unique look.



**Schüco TopAlu Vision
for Schüco Living**

With 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

Colour accents enhance any façade. The Schüco foil range offers myriad head-turners which make PVC-U windows and doors even more attractive.



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.

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

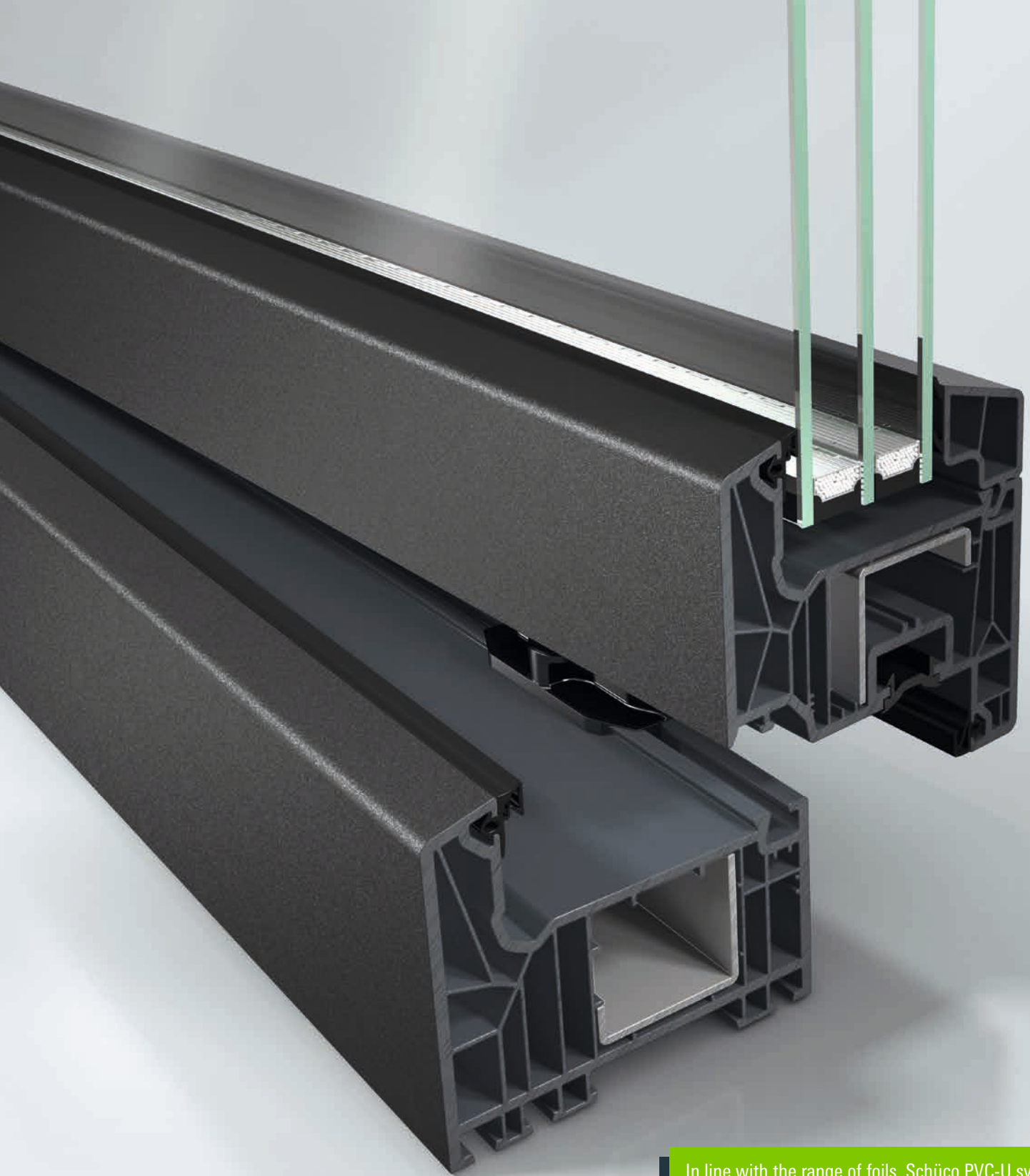
The quality of the foils is monitored and the associated production processes are carried out in accordance with RAL-GZ 716/1 and they are regularly subjected to a test procedure over a preassigned period of time.



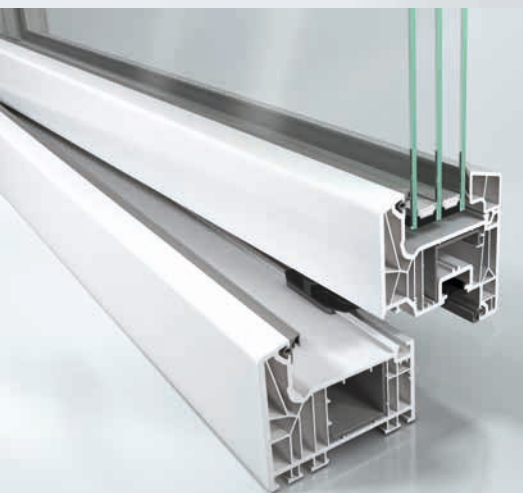
PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

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





In line with the range of foils, Schüco PVC-U systems are available in a range of different profile base material colours: white, cream white, caramel and grey.





Sun shading

88

- 90 Schüco Integralmaster
- 92 Schüco folding shutters

Schüco Integralmaster

Schüco Integralmaster is an internal roller blind system which is integrated in the glazing beads. All national and EU regulations for glare protection in the workplace are met, as sun shading, glare protection and screening can be effectively combined by means of different film blinds.

NEW!



PRODUCT HIGHLIGHTS

- High-quality alternative to external sun shading
- Combined sun shading, glare protection and screening
- Low-maintenance and unaffected by weather
- Concealed mechanisms
- Choice of fabric or film blind and motorised or chain actuator
- Can be retrofitted
- Window and door function not impaired



FABRICATION BENEFITS

- Fully integrated construction method for different profile systems of window and door units
- Fixing without screws
- Pre-fabricated assemblies
- Flexible and variable fabrication to suit customer requirements



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.



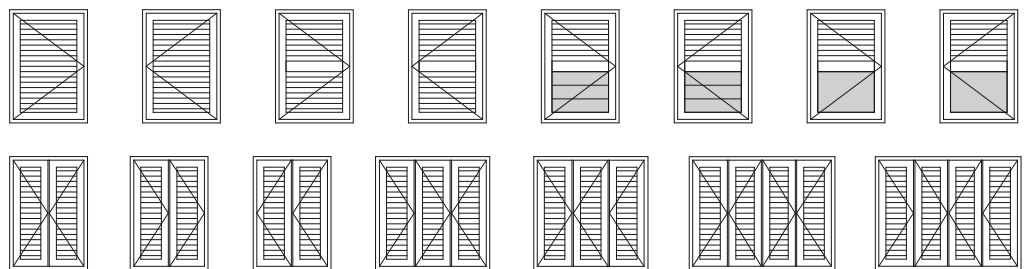
PRODUCT HIGHLIGHTS

- 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 to suit individual rooms
- Low level of maintenance required
- Closed folding shutters provide screening and additional protection against burglars
- 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 screws
- Louvre blades fitted using simple clip-on installation
- Reveal and rebate extensions make almost all building attachment arrangements possible
- 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



Fittings & automation

94

- 96 Schüco VarioTec
- 98 Schüco VarioTec NI
- 99 Schüco VarioTec Air
- 100 Window fitting for horizontal pivot windows
- 101 Schüco MultiTec
- 104 Schüco BlueCon
- 106 Schüco DCS SmartTouch
- 108 Schüco sliding fittings
- 109 Schüco sliding ventilation fittings
- 110 Schüco lift-and-slide fittings
- 113 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.



PRODUCT HIGHLIGHTS

- Burglar resistance to RC2
- ift-tested
- Load-bearing capacity up to 130 kg (with the standard design)
- Opening angle up to 180°
- Suitable for construction of all unit types, including special shapes
- Minimal maintenance
- Hinge side with standard and feature design
- Visible fittings components are available powder-coated in white, black, cream white, F9 (stainless steel look) and brass (for the design line available)

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 PVC-U locking bars was tested in multiple ways and all individual components are tested for everyday use under the most rigorous conditions.

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).



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**
- **Aminimised number of components simplifies fabrication of units with resistance class 2 (RC2)**

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.

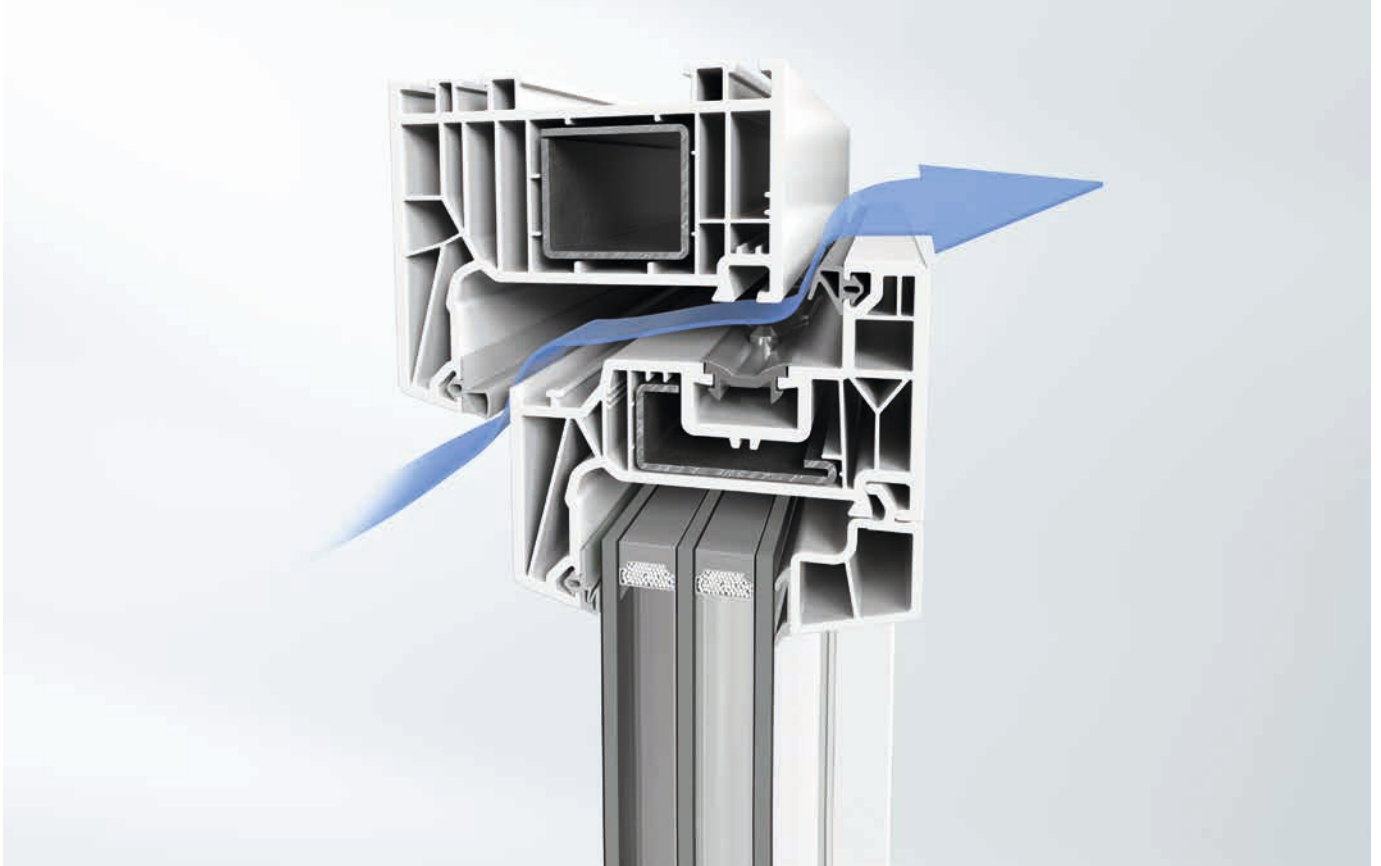


PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- Burglar resistance to RC2
- ift-tested
- Load-bearing capacity up to 150 kg
- Opening angle up to 100°
- Minimal maintenance
- 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 / FABRICATION BENEFITS

- Burglar resistance to RC2 – even with crack ventilation
- ift-tested
- Load-bearing capacity up to 100 kg
- Opening angle up to 180°
- Improved sound reduction and weather protection compared to an open window
- Protection against insects and protection for pets
- Prevention of structural damage and mould growth thanks to continuous and secure basic ventilation
- 100% compatible with Schüco VarioTec

Window fitting for horizontal pivot windows

The new Schüco window fitting for horizontal pivot windows expands the Schüco range of fittings and enables a further opening option in the Schüco Living and Schüco CT 70 PVC-U systems.

NEW!



Horizontal pivot windows from Schüco meet the latest requirements in terms of comfort and energy efficiency. They combine comfortable operation with efficient two-way ventilation. The horizontal pivot vent can be

rotated by 180° to easily clean the windows. It is recommended to use rebate stays as additional securing means to limit the opening angle.



PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- Vent weights of up to 150 kg are possible
- Horizontal pivot vents are possible in widths up to 2200 mm
- Clip-on caps in the window design cover and protect the installed horizontal pivot vent bearings
- A matching range of handles is available in white, black and F9 (stainless steel look) as well as in lockable designs

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 / FABRICATION BENEFITS

- Burglar resistance to RC2
- Possibility of automatic locking and unlocking without using a key
- Use a fingerprint to open doors 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 DIN EN 179 or panic doors in accordance with DIN EN 1125, with a wide choice of colours and designs too. The new range 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 handle range for entrance doors



Schüco BlueCon

New technology for keyless access controlled by your smartphone.



Making your day easier with Schüco BlueCon: the door lock can be easily controlled via app on your smartphone or smartwatch. Using the auto-unlock function, the door opens by itself even when the smartphone is in your pocket.

The connection between the lock and smartphone is created in seconds by the concealed Bluetooth unit, which is practically fully concealed in the door rebate on the inside.



PRODUCT HIGHLIGHTS

- Access authorisations can be set and logged individually, flexibly and for specific people using the Schüco app
- Full transparency: Schüco BlueCon allows you to find out who has entered your home at what time of the day
- The concealed installation in the door rebate combines a harmonious appearance with a sophisticated design
- The user decides whether the door is to be opened automatically by means of an app or manually
- The double AES 128 bit encryption technology meets the highest security requirements

FABRICATION BENEFITS

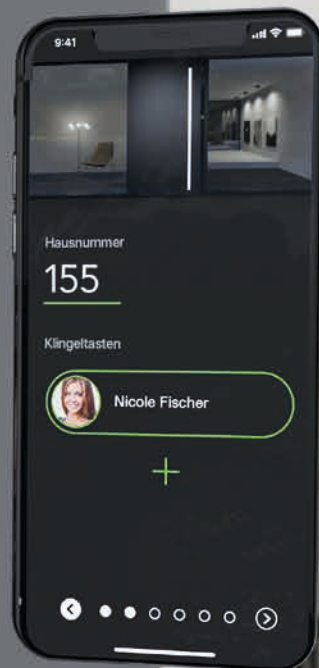
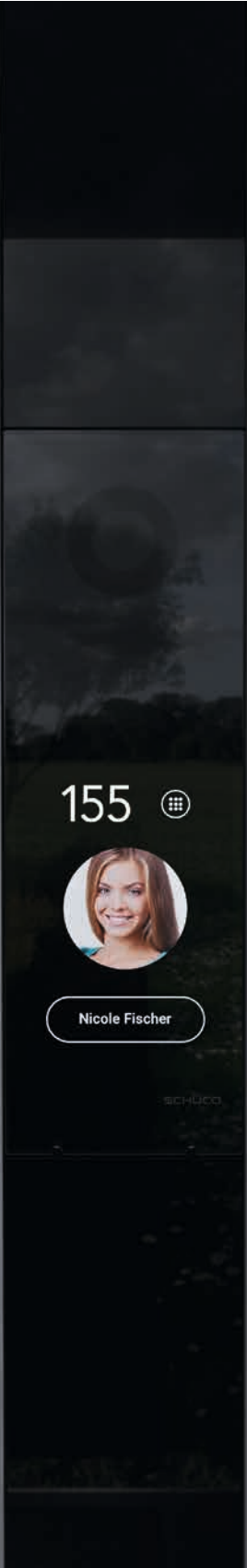
- Suitable for newbuild and renovation projects
- Thanks to Schüco cable kit, can be connected to electric locks by means of plug & play
- One module, complete functionality: no additional cabling and no additional power pack required

Schüco DCS SmartTouch

The smart door intercom system for intelligent PVC-U entrance doors. With reliable access control, camera, doorbell, night vision and the latest internet technology, the multi-functional module ensures a secure and contemporary entrance area.



AVAILABLE:
QUARTER 2 2021



The streamlined door intercom system from Schüco enables intuitive operation via Touch Display or remote access to the camera and audio system via smartphone. Effortless connection to the entrance door is possible at any time thanks to the practical Schüco DCS SmartTouch app, available for both iOS and Android devices. Notifications are sent to the smartphone via the Schüco Cloud as soon as someone rings your doorbell. Using one or

various PIN codes, you can determine precisely which people are allowed to open the entrance door via Schüco DCS SmartTouch and at what time. The TLS hybrid encryption protocol, also common in online banking, meets the latest security standards in data protection.

PRODUCT HIGHLIGHTS

- The open communication standard means that the system can be connected to different external end devices
- Camera with full HD 1080p resolution and 140° screen diagonal for an ideal detection range
- Highest video quality even in poor light conditions
- 4.3" touchscreen for easy use

FABRICATION BENEFITS

- Minimal installation complexity thanks to Power over Ethernet (PoE): one PoE cable handles the full energy and communication transfer
- Only one recess necessary in the profile, so fabrication is simple and efficient
- Fast, cost-effective approval on site thanks to integrated test mode
- Remote access to the system possible with internet connection: fast, easy response to customer requests and requirements



reddot award
winner

Schüco sliding fitting

Schüco sliding fittings include 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 S 150 and Schüco SoftSlide 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.

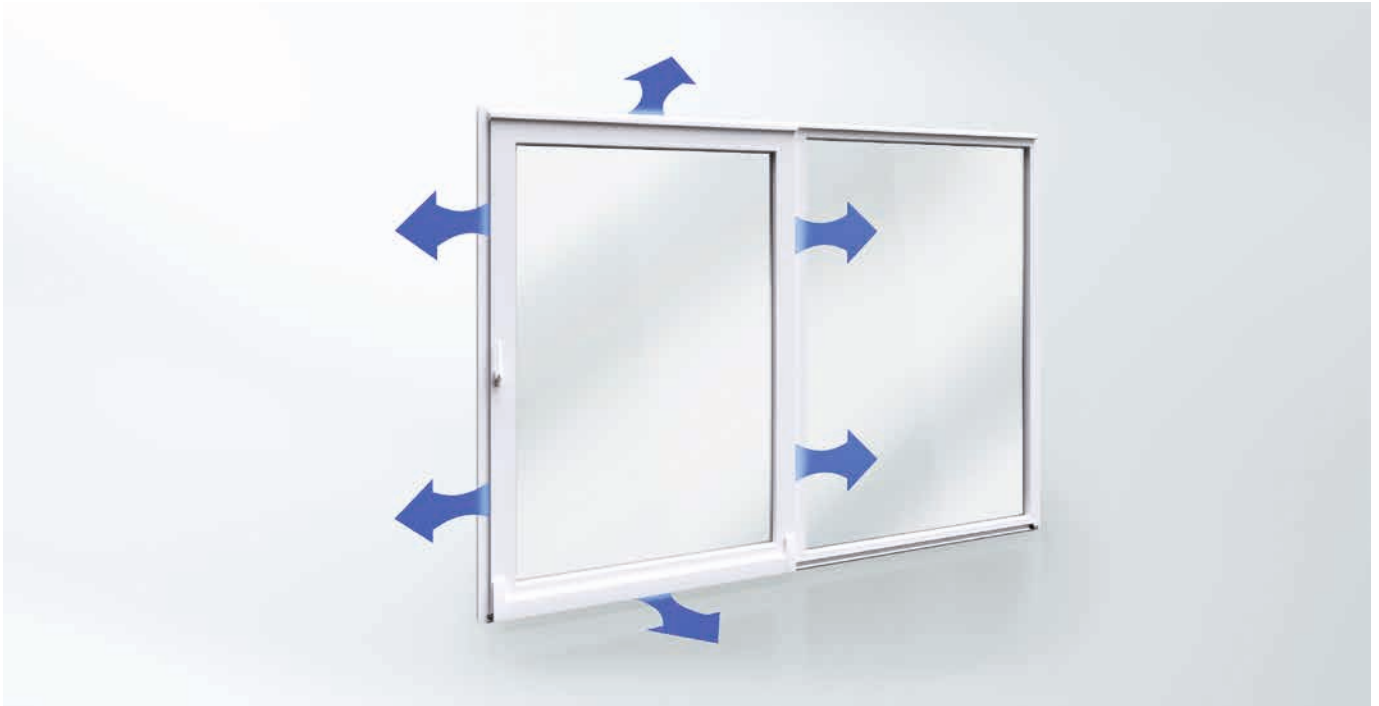


PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- 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) / SKG class 2 (Schüco S 150)
- Small number of parts for simplified fabrication and minimised warehouse storage
- Compatible fittings system for the Schüco S 150 and Schüco SoftSlide sliding door systems simplifies fittings installation
- Wide range of unit types can be constructed

Schüco sliding ventilation fitting

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



Based on the Schüco VarioTec Air ventilation fitting for windows, the Schüco sliding 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.

Even during crack ventilation, the Schüco sliding ventilation fitting provides burglar resistance to resistance class 2 (RC2) as the ventilation position is almost undetectable from the outside. 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 / FABRICATION BENEFITS

- Burglar resistance to resistance class 2 (RC2) – even with crack ventilation
- 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 lift-and-slide fitting

The Schüco lift-and-slide fitting is specially designed for building lift-and-slide door installations. The Schüco lift-and-slide fitting offers simple and efficient fabrication combined 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 guarantees added comfort and accessibility when using different lift-and-slide systems, even with very large vent weights up to 400 kg. Double, triple and quadruple-vent units with and without fixed lights can be constructed with the Schüco lift-and-slide door fittings.



PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- The 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
- Convenient and easy to operate
- Can be constructed to resistance class 2 (RC2) / SKG class 2 (Schüco S 150)
- 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 fulfils 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 or flyscreens. 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.



Even more comfort for Schüco LivingSlide lift-and-slide doors:
the concealed electric drive.

NEW!



PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- Security with integrated finger-trap protection for vent weights up to 330 kg
- Comfort thanks to quiet operation
- Direct operation at the unit with an operating switch as well as via smartphone in combination with the WLAN router
- Fully concealed technology
- All the required components are located in the top horizontal frame, so that fabrication is almost identical to units without electric operation
- Simple fabrication: necessary machining in the frame trim takes place in the workshop, so that all that remains is to cut it to length
- Quick installation of the motor by means of plug-in connections

Schüco SoundGuard

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



Schüco SoundGuard, which consists 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

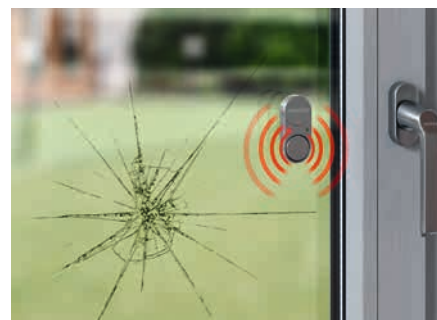
handle. It reliably detects when the window or window door is opened by force by being levered out and reacts to this with a red signal light and a loud alarm. The glass breakage alarm registers vibrations in the window pane. If the glass is smashed by force, the glass breakage alarm transmits a loud alarm sound.

PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- 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 (stainless steel look)
- Easy, time-saving installation



Schüco SoundGuard window alarm



Schüco SoundGuard glass breakage alarm



Ventilation systems

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- 118 Schüco VentoTherm Twist
- 121 Schüco VentoPlus
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Decentralised ventilation solutions

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

FACTORS THAT AFFECT THE INDOOR CLIMATE



Indoor air quality is critical for the health, wellbeing and productivity of people who spend time in buildings. 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 such as 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 ensures the most efficient use of energy and the best possible room climate and air quality, all of which are decisive advantages when marketing and managing a property.



BENEFITS OF DECENTRALISED VENTILATION SOLUTIONS

- **Integration into windows and façades without installation in the intermediate floor: saves equipment space and ceiling 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 Twist

Schüco VentoTherm Twist is a decentralised, window-integrated ventilation system with incoming air, outgoing air and heat recovery for a controlled exchange of air without opening the window.



Schüco VentoTherm Twist
Operating principles

PRODUCT HIGHLIGHTS

- Integrated air quality sensors
- Automatic adjustment of the air volume flow to the current requirements reduces expensive energy costs
- Can be integrated horizontally and vertically in Schüco window systems
- Suitable for almost all types of newbuild and renovation project
- Continuously supplies fresh air by means of alternating ventilators with used air in the room being removed at the same time
- Efficient, multifunctional system solution ensures a controlled exchange of air
- High energy saving due to a heat distribution level of max. 80%
- Can be combined with Schüco aluminium and PVC systems
- Operating options: basic or comfort operation

SCHÜCO

In Partnership with

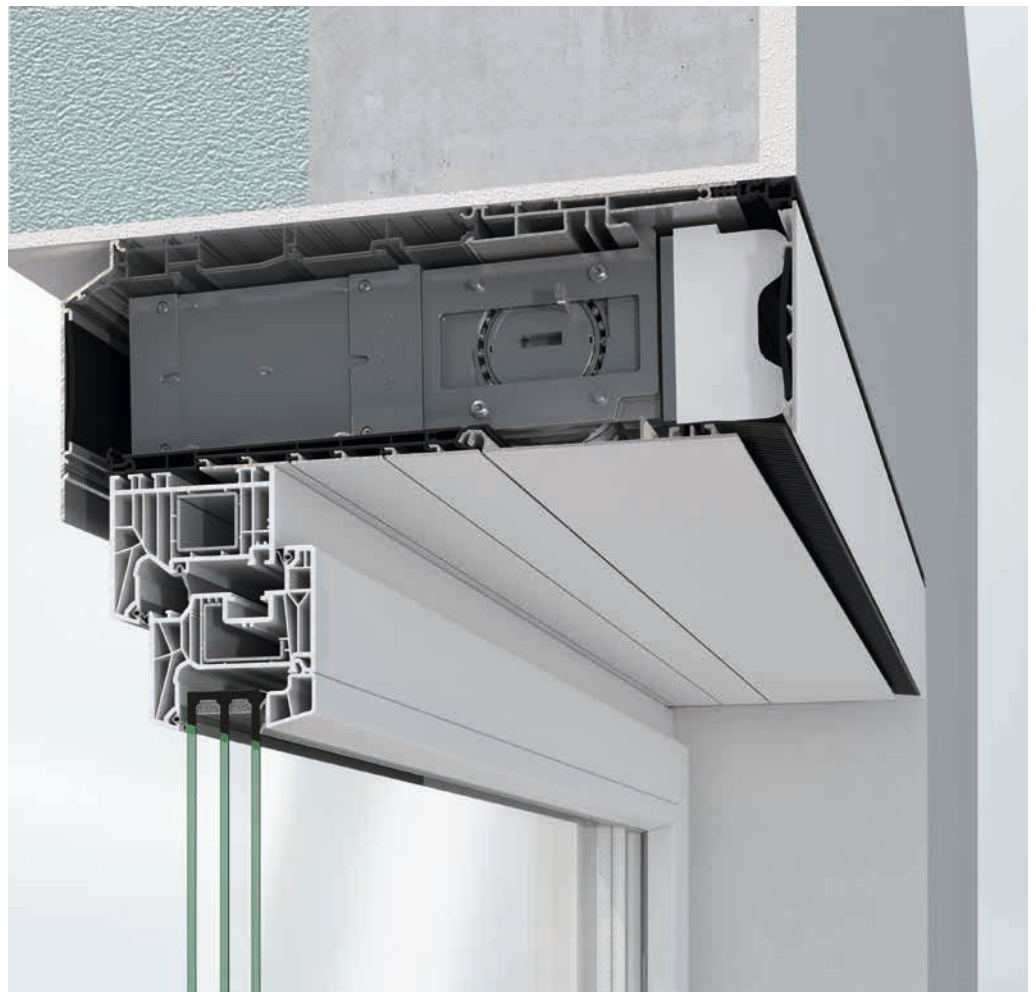


The indoor climate is one of the most important factors in designing an ideal workplace or living space. With Schüco VentoTherm Twist, Schüco offers an efficient system solution for decentralised ventilation. With a capacity of up to 144 m³/h in terms of air volume flow and a narrow face width, Schüco VentoTherm Twist is an efficient solution for use in almost all building types as well as in newbuilds and renovation projects.

Integrated air quality sensors enable control according to requirements, ensuring an optimum indoor climate. This reliably prevents permanently elevated humidity and mould growth. At the same time, Schüco VentoTherm Twist protects against draughts and keeps insects and pollen out. In addition to the G3 filter, an optional F7 fine particle filter is available which is particularly well suited to allergy sufferers.

FABRICATION BENEFITS

- The ventilator is easily screwed onto the window unit, making installation of the system time-saving and economical
- 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 Twist 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 / FABRICATION BENEFITS

- 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⁺

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.



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. So even increased air volumes can be processed.

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 precision plastic hinge technology, Schüco VentoAir⁺ detects even the smallest air movements and automatically adjusts the air volume flow via regulating flaps. These 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 / FABRICATION BENEFITS

- Can be used in all Schüco PVC-U window systems
- Easy to retrofit
- 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
- Barely visible even when the window is open
- Colour can be changed to match the window gasket colour of black or silver grey
- Modules are positioned without fittings
- Quick, easy installation with high-quality engagement technology instead of drilling and screw-fixing

Schüco VentoAir

Schüco VentoAir ensures air exchange even when the window is closed. The self-regulating window rebate ventilator uses automatic volume flow restriction to control air exchange and provide safe dehumidification without draughts.



Schüco VentoAir can be screw-fixed in pairs either horizontally to the top outer frame or at the side in the outer frame rebate. This provides the flexibility to accommodate different window sizes and fitting situations. Air entry in the top window area ensures smooth air convection in the room. Once they are installed, the modules are no longer visible from the inside or outside and can also be easily retro-fitted in installed windows.

The ventilator responds independently to changes in wind pressure. The ventilator flaps automatically regulate the inflowing air so that no draughts occur.

Schüco VentoAir can reduce the relative ambient air humidity by approximately 10-15% and thereby helps to prevent and combat the causes of mould growth.



PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- Can be used in all Schüco PVC-U window systems
- Suitable for newbuild and renovation projects
- ift-tested ventilation module
- Meets the requirements for the ventilation of residential buildings in accordance with EnEV and DIN 1946-6
- Quick and easy to install
- Can be used as an external air inlet in conjunction with shaft ventilation or air extraction systems
- Sound reduction up to 42 dB possible with the appropriate glass
- Watertightness up to class 9A



Accessories

124

- 126 Schüco safety barriers
- 128 Barrier-free 0 mm threshold
- 129 Barrier-free 20 mm threshold
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Schüco safety barriers

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



PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- Four attractive unit types: as a glass version, horizontal or vertical bar version, or a combination of glass and bar
- Suitable for newbuilds and modernisation projects, particularly in public buildings such as schools or nurseries
- All statutory security specifications are met, 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 CT 70 PVC-U systems
- In combination with roller shutters
- 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 and profile anchor offer two different concealed fixing options

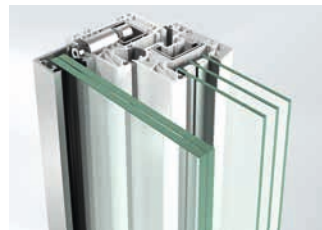
Wide range of looks with highest security

Transparent and therefore unobtrusive glass safety barriers allow unobstructed views to the outside, without intruding upon the visual appearance of the façade. Horizontal or vertical bar safety barriers are the perfect 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 square bars with different diameters, opens up a variety of design possibilities. Combining the

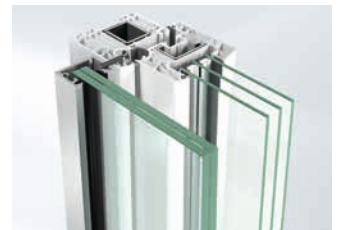
glass and bar safety barriers also make a design statement in the façade. All pilaster, carrier, and edge protection profiles are available in EV1 as standard. Depending on the requirements, however, they can also be adapted to the individual window unit colour in all RAL and anodised colours as well as wet paint coatings.

The perfect combination for maximum security

Glass version
Glass thicknesses from 10 to 16 mm



Fixed with profile anchor

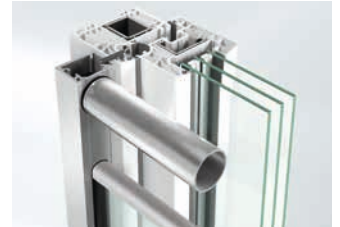


Fixed with rebate strip

Combined glass and bar version



Fixed with profile anchor

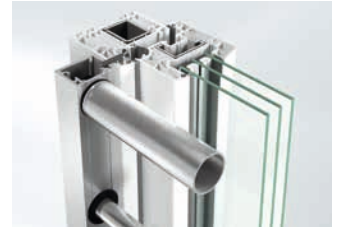


Fixed with rebate strip

Horizontal bar version
Diameter of 12 to 35 mm



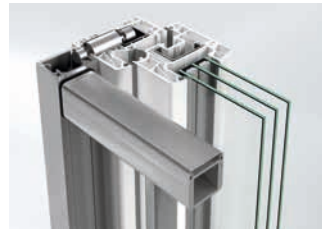
Fixed with profile anchor



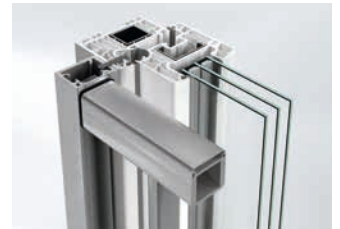
Fixed with rebate strip



Vertical bar version



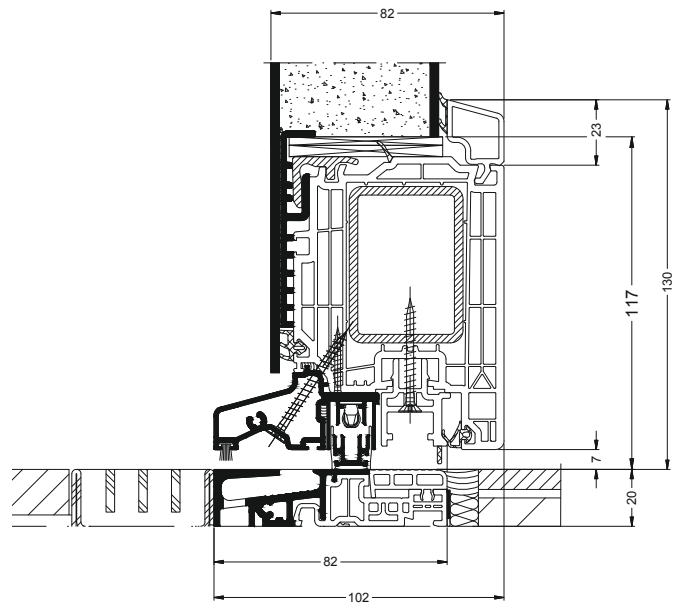
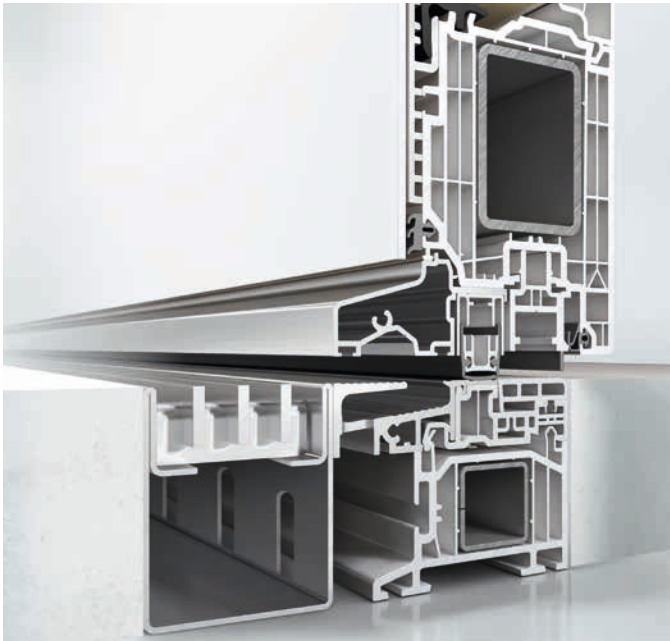
Fixed with profile anchor



Fixed with rebate strip

Barrier-free 0 mm threshold

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 of Schüco LivIng with 0 mm threshold

The innovative 0 mm threshold can be installed in single-leaf, inward-opening Schüco LivIng entrance as well as window doors in the Schüco LivIng and Schüco LivIng Alu Inside series. It can also be used in multi-part entrance door units with mullions (in development). It is also easy to combine Schüco TopAlu with leaf-enclosing door infills. 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.

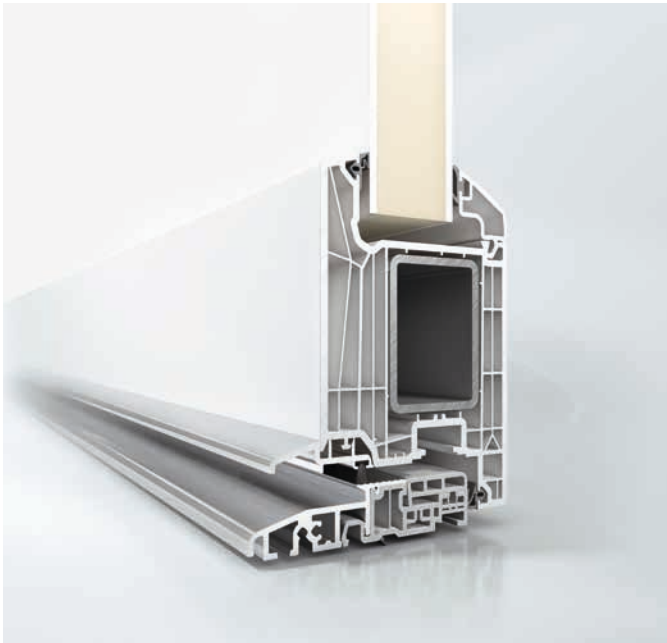


PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

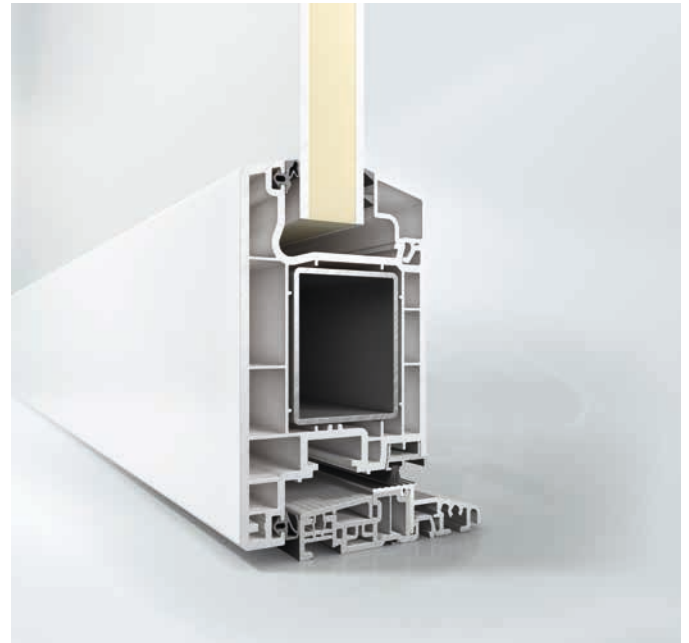
- No bottom threshold or door rebate on account of the level threshold
- All requirements for barrier-free construction met in accordance with DIN 18040
- Threshold bracket available in black and white, wind stops in black and silver grey
- Preassembled thermally broken threshold profile
- Watertightness to class 9A
- Can be used with standard drainage systems

Barrier-free 20 mm threshold

The barrier-free 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 CT 70 entrance door, outward-opening

The threshold can be used for Schüco entrance doors, side entrance doors and window doors and is fixed to the building structure using concealed screws. The effective burglar resistance up to resistance class 2 (RC2) for this threshold solution means that it can easily meet increased security requirements too. In this way, the low installation height of 20 mm meets the requirements for barrier-free construction. 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 / FABRICATION BENEFITS

- Meets the highest thermal insulation requirements
- Threshold system suitable for barrier-free 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, Schüco Symbiotic and Schüco CT 70

Glazing beads and decorative glazing bars

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

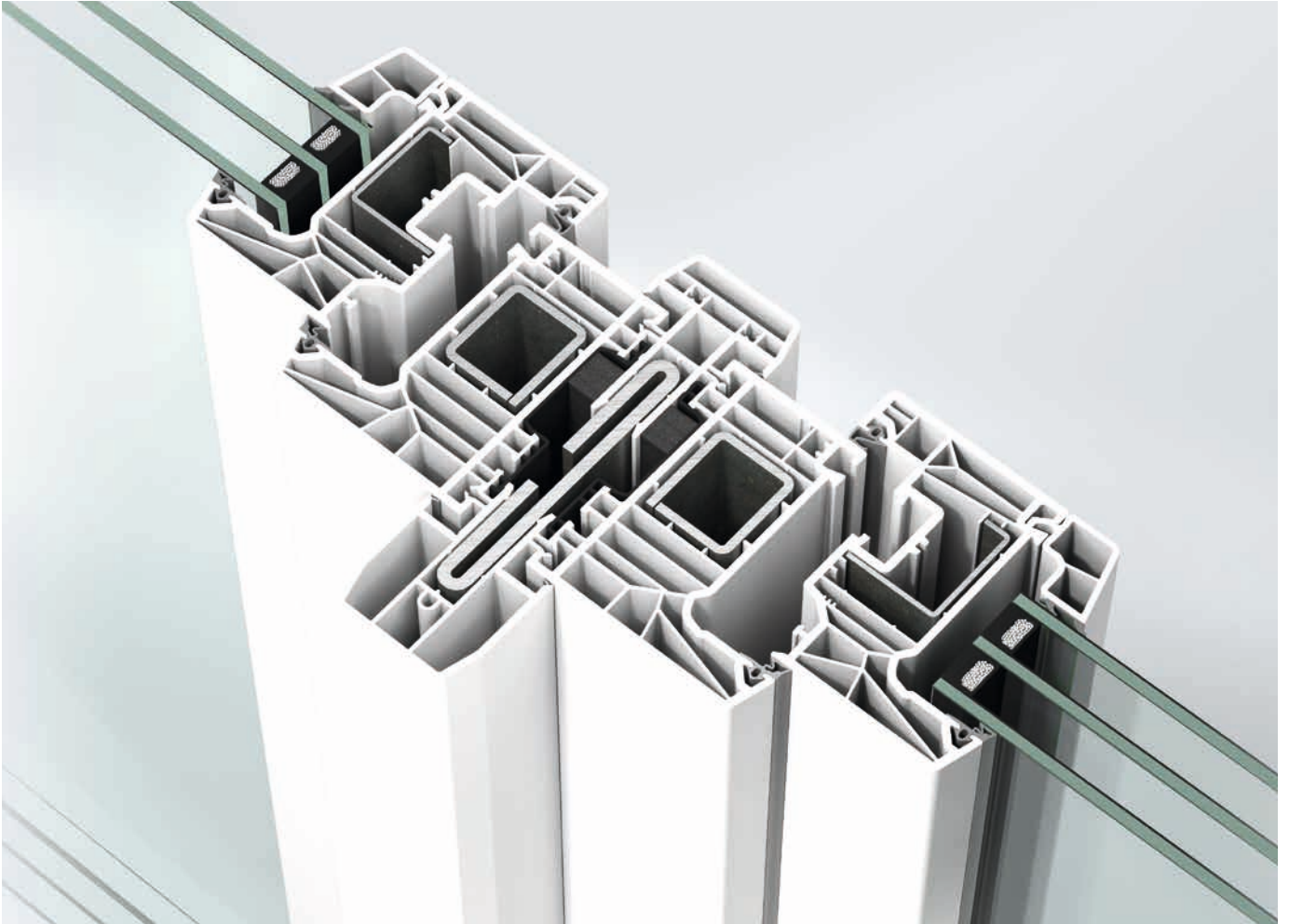


PRODUCT HIGHLIGHTS / FABRICATION BENEFITS

- Wide selection of glazing beads with different contours for the visual design of window and door units
- One glazing bead range for all PVC-U systems (height 23 mm)
- Decorative glazing bars can be used to accentuate windows in newbuilds and renovation projects
- Glazing beads and decorative glazing bars can be adapted with a variety of design foils to match the appearance of the windows and doors
- Compatible with 70 mm and 82 mm basic depths
- Glazing from 16 mm to 54 mm with a glazing rebate depth of 67 mm and 4 mm to 42 mm with a glazing rebate depth of 55 mm is possible
- Glazing beads available in all base material colours
- No need to replace gaskets, as glazing beads have been reduced to 2 mm

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 / FABRICATION BENEFITS

- 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 scenarios in renovation and newbuild projects
- Profile construction with optimised chamber geometry for excellent thermal insulation
- Colour design using a wide selection of Schüco UnlimitedFinish 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

Support for the whole business process

01.

SALES

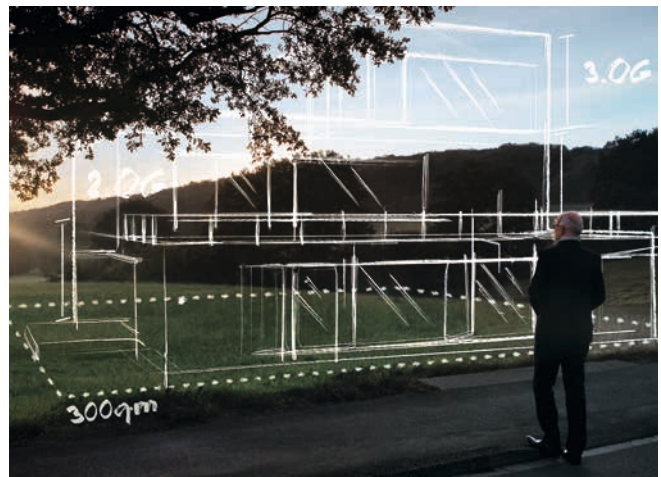


Schüco partners receive comprehensive support for acquisitions and consultations – with a premium brand, top arguments for first-class products and a large selection of advertising media.

- **Schüco partner concept**
- **Lead management**
- **Sales training**
- **Virtual showroom**
- **Booklets and brochures**
- **Reference project app**
- **Showroom furnishing**
- **Advertising materials**
- **Corporate Media Center**
- **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**
- **Technical support**
- **Quick and easy ordering**
- **Sales administration**
- **Tailored software & online tools:**
 - Plan.One
 - Schüco PolyPlan
 - Schüco PolyCal
 - PlanToBuild
 - Schüco PolyWeb
 - Schüco OrderSoft

03.

FABRICATION & INSTALLATION ↗



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

- **Workshop planning**
- **Schüco machinery**
- **Machine control**
- **Machine and application technology**
- **Training courses**
- **Fabrication guidelines**
- **Unit testing**
- **Installation documentation**
- **Docu Center**

04.

AFTER-SALES SERVICE



Partners of Schüco Polymer Technologies provide long-term customer satisfaction, for instance with replacement parts that are available for decades, easy to order and quickly on site.

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

Plan.One

As an interactive business intelligence tool, Plan.One enables the digitalisation of work processes and revolutionises the interaction between architects, developers, manufacturers and contracted companies in the construction industry.



Search engine and comparison portal for information relevant to building planning.

Designed as an intelligent assistance system by architects and for architects, Plan.One allows you to quickly search for and compare products tailored perfectly to your building project. It's manufacturer-independent, intuitive and takes just a few clicks. Plan.One creates market transparency, saves time on lengthy searches, and simplifies and speeds up the workflow. Search results can be saved, while product details and planning information can be copied over directly into standard planning software. www.plan.one

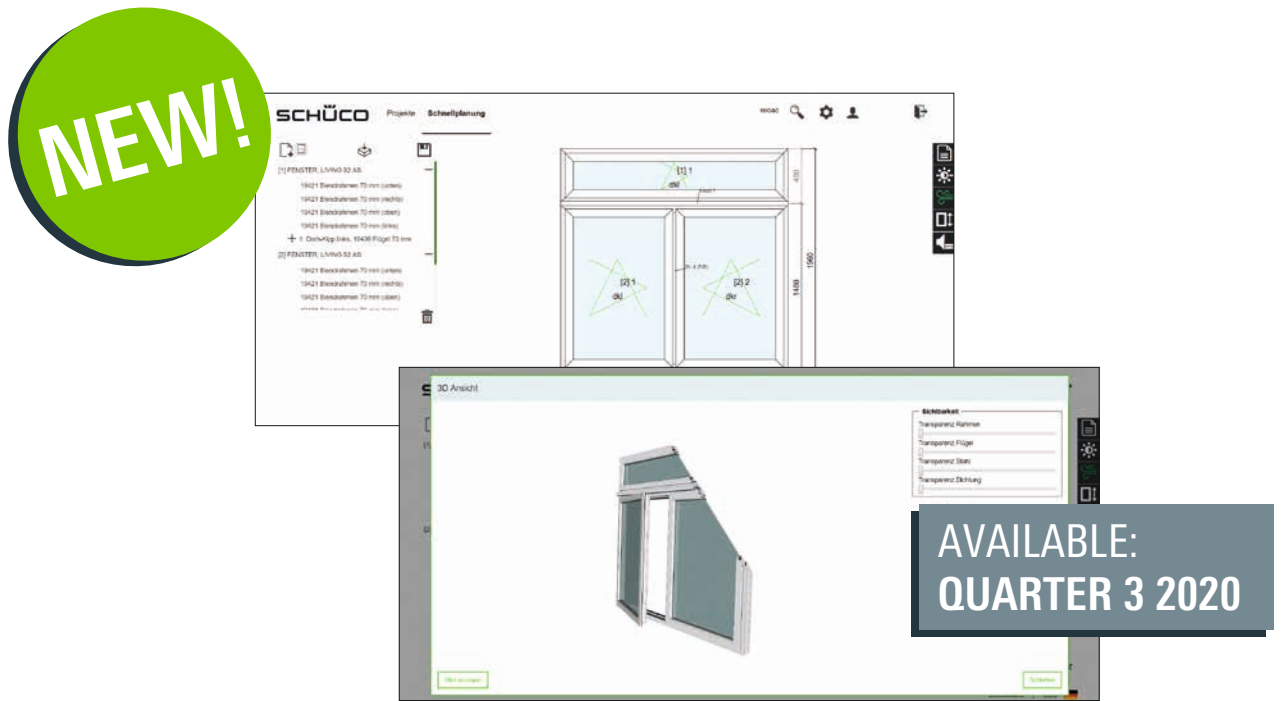


PRODUCT HIGHLIGHTS

- A central platform for content relevant to planning, design and maintenance
- Clear comparison of selected product properties
- Use in your browser or from your planning software with a plugin
- Manufacturer-independent comparison portal with brochures, images and videos

Schüco PolyPlan

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



Design and specification made easy

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

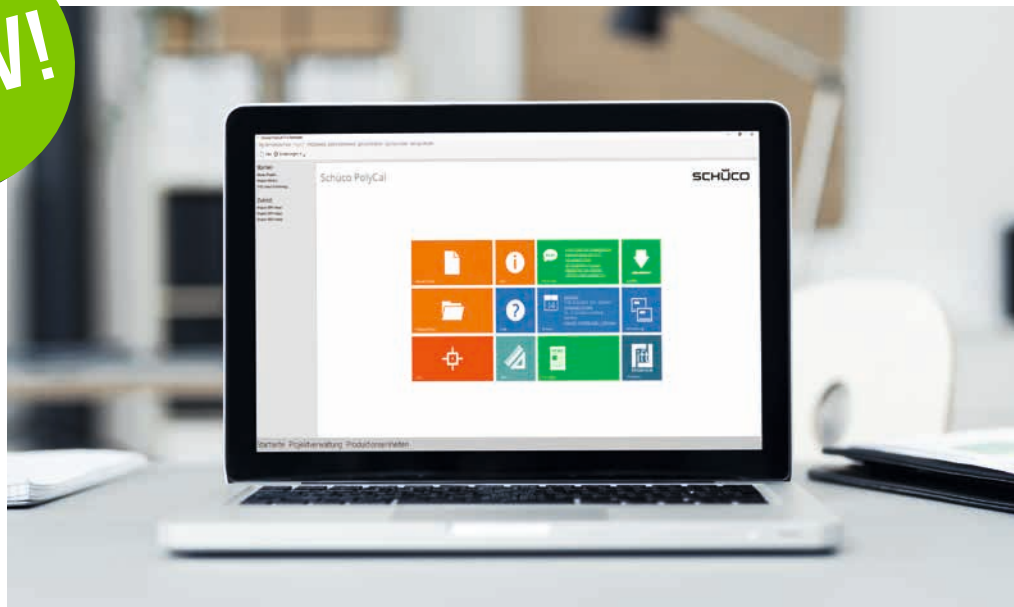
PRODUCT HIGHLIGHTS

- Preliminary structural calculation based on DIN EN 1990/NA and DIN EN 1991/NA for dead loads, wind loads and horizontal live loads (transom load)
- Automatic U value calculation
- 3D viewer for coloured profiles
- Generate drawings of attachments to building structure
- Generation of specifications and quotations
- CAD viewer
- Download all profiles as a DWG or DXF file
- Section detail generation for individual and whole sections
- User-defined design
- Wide selection of unit and opening types
- Glazing bars are easy to position
- 3D view of the entire unit
- Multiple coupled units can be displayed
- Online updates
- New, intuitive user interface
- Download all units for BIM applications (IFC and Revit)
- User administration
- Joint access to projects within a company

Schüco PolyCal powered by **ORGADATA** A CLICK AHEAD

Schüco PolyCal – the window design software for easily and efficiently calculating and fabricating Schüco PVC-U windows and doors.

NEW!



Calculation and fabrication made easy

Schüco PolyCal offers the option for unit entry, calculation and cutting optimisation of PVC-U windows and doors. The software also contains tools for section detail displays, statics calculation and machinery control.



PRODUCT HIGHLIGHTS

- Unit entry
- Calculation
- Statics calculation
- Cutting optimisation
- Print output
- Generation of section details
- Office interfaces (Word, Excel, Outlook)
- Interface with ift server
- Interfaces with double-headed mitre saws
- Schüco master data pack for profiles and fittings



OPTIONAL FEATURES

- 2D CAD suite
- Create bar plans
- Grouping of production units
- Transfer CNC data to three, four and five-axis processing centres
- Bar cutting of the profiles on the processing centre
- Interface with welding and plastering machines

PlanToBuild

With its wide range of modules, PlanToBuild supports project teams with efficient planning, control and implementation of building projects.



Reliable, web-based project management platform

Whether it's schedule and task management, document collaboration, incident management, daily construction reports or defect management – PlanToBuild is the ideal partner. A further highlight is a 2D or 3D digital building model, which provides a quick and simple overview of the items in the specification, their properties and location. The PlanToBuild platform can be accessed easily via a web browser and allows for digital networking and communication with all internal staff and third parties involved in the project anytime, anywhere. A clear competitive advantage for fabricators. plantobuild.online/en

PRODUCT HIGHLIGHTS

- **Unit-oriented construction management**
- **Graphic schedule for a transparent overview of individual processes and milestones**
- **Interfaces for perfect integration in existing work processes**

Schüco PolyWeb

Schüco PolyWeb – the online Schüco platform for easily and efficiently calculating and ordering Schüco PVC-U special construction units.

The online platform for special constructions

With Schüco PolyWeb, Schüco is supporting its partners' individual work preparation process for particularly challenging units. From planning and the creation of cutting lists through to calculation and optimisation, your special building project could not be easier.



PRODUCT HIGHLIGHTS

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

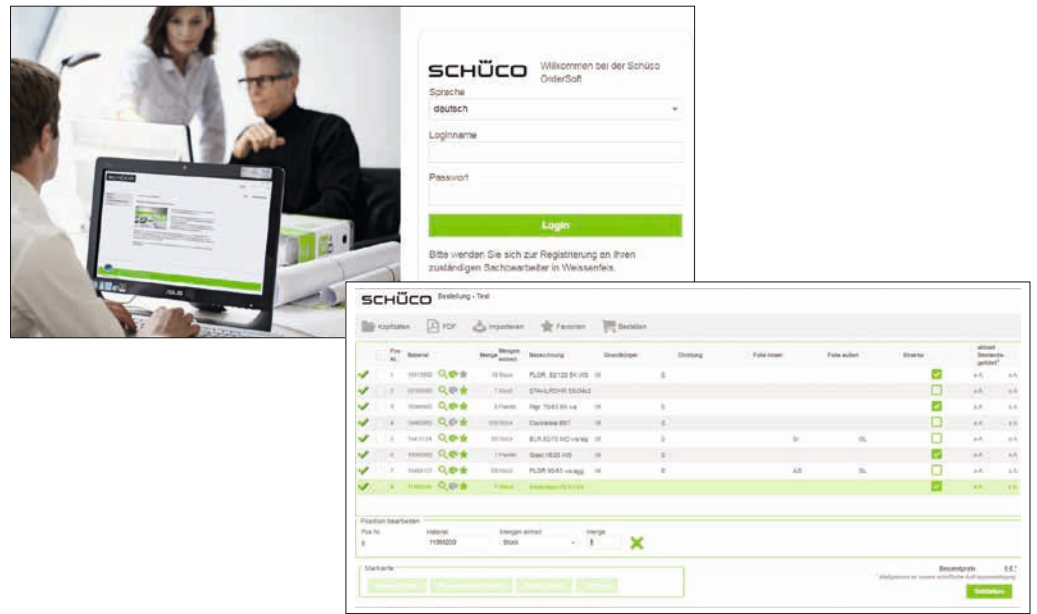


AVAILABLE SYSTEMS

- Schüco safety barrier
- Schüco lift-and-slide and sliding door systems (in 2021)
- Schüco VarioTec (in 2021)

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.



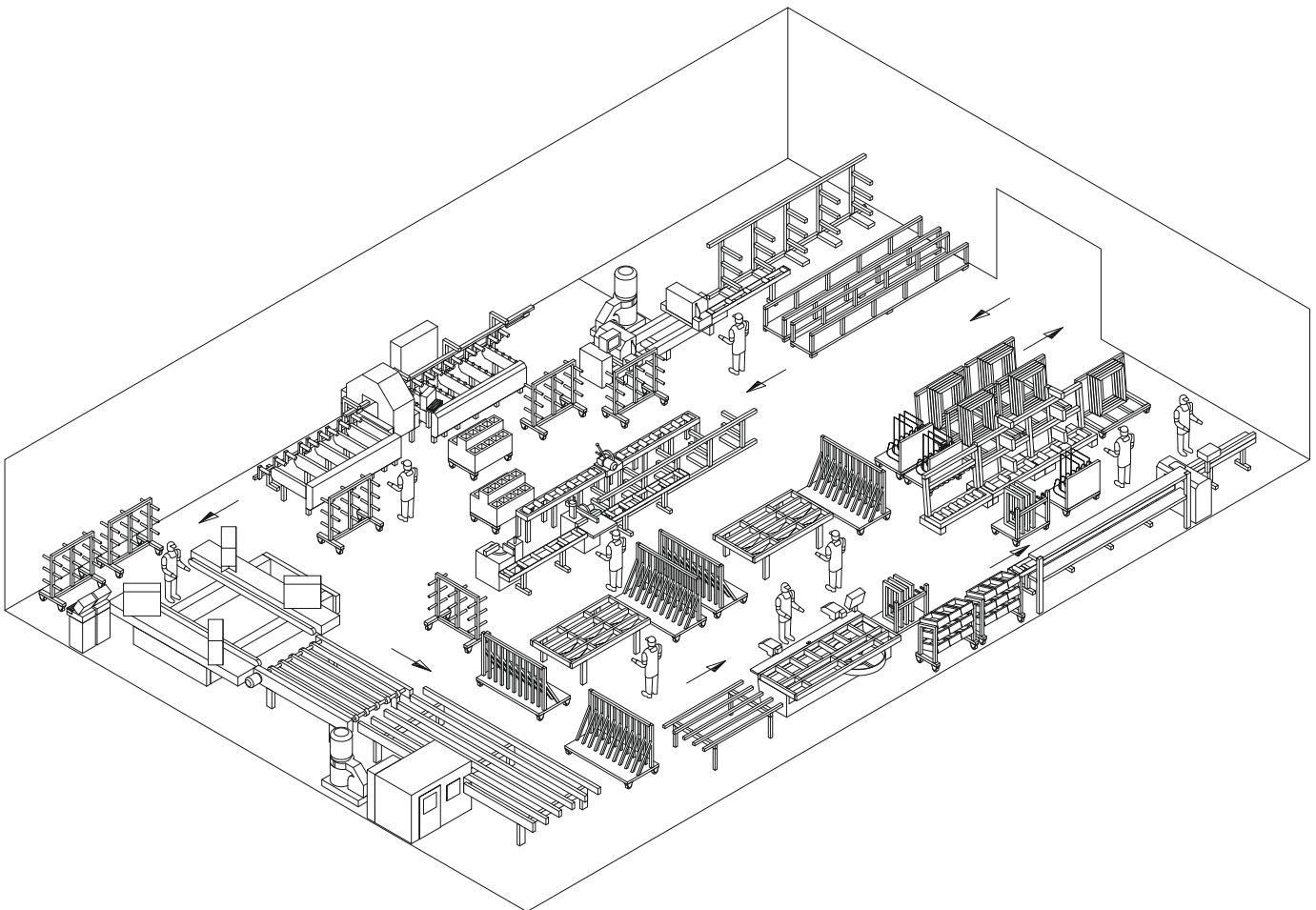
Schüco OrderSoft allows you to easily and reliably order and ask queries about Schüco products from your PC, tablet or smartphone. It is available to Schüco partners as an online version and can be used at any time from anywhere. Orders can therefore be made at any time of day. The application does not need to be installed locally. This ensures that the latest software version is always used and up-to-date article master data is stored. www.schueco.de/ordersoft-pt

PRODUCT HIGHLIGHTS

- Online application can be used at any time, with any end device and by multiple users
- Simple user interface
- Address data management
- Create and use order forms
- Extensive colour and profile illustrations
- Intelligent colour code recognition
- Even special colour orders are easy to configure
- Numerous help and search functions with visual support
- Shows capacities and packing units including alternative quantities
- Import order lists
- Direct electronic order transfer at the touch of a button
- Save and display previous orders

Workshop planning

Whether it's a newbuild or renovation project, with Schüco 3D workshop planning, you can optimise all of the processes in your machinery area and generate more added value with individual solutions.



KEY BENEFITS AT A GLANCE

- Tailored, individual 3D fabrication concepts
- Long-term process optimisation, cost reduction and quality assurance
- Ergonomic fabrication
- Machinery developed in-house by Schüco, including programming and tool kit
- In close collaboration with renowned German partners
- All machines tailored to our PVC-U systems
- Reliable service provided by Schüco application technicians

Schüco workshop planning provides expert advice and allows you to design your space without hassle. In order to make the best possible use of available resources and increase quality and performance, the current fabrication processes are initially considered as part of an as-is analysis. The focus is on use of space, operator ergonomics, machine capacity as well as material flow and digital solutions. These factors are assessed on the basis of the current workshop layout and production range.

Based on this, Schüco designs a new, individual fabrication concept which is adapted to suit the actual conditions and the needs of the Schüco partner. The result is long-term cost reduction and quality assurance through process optimisation and an increase in efficiency in all areas of fabrication.

In collaboration with leading German partners, Schüco, true to the "Made in Germany" ethos, provides the latest technology and professional advice for your workshop planning. Get everything in a single package. Schüco machinery is precisely tailored to our PVC-U systems and developed in-house, as well as being delivered with the appropriate programming and tools.

The service provided by Schüco Application Technology means there is no need for an external specialist. You benefit from comprehensive advice and detailed 3D illustrations of your individually designed workshop.

Schüco machinery service

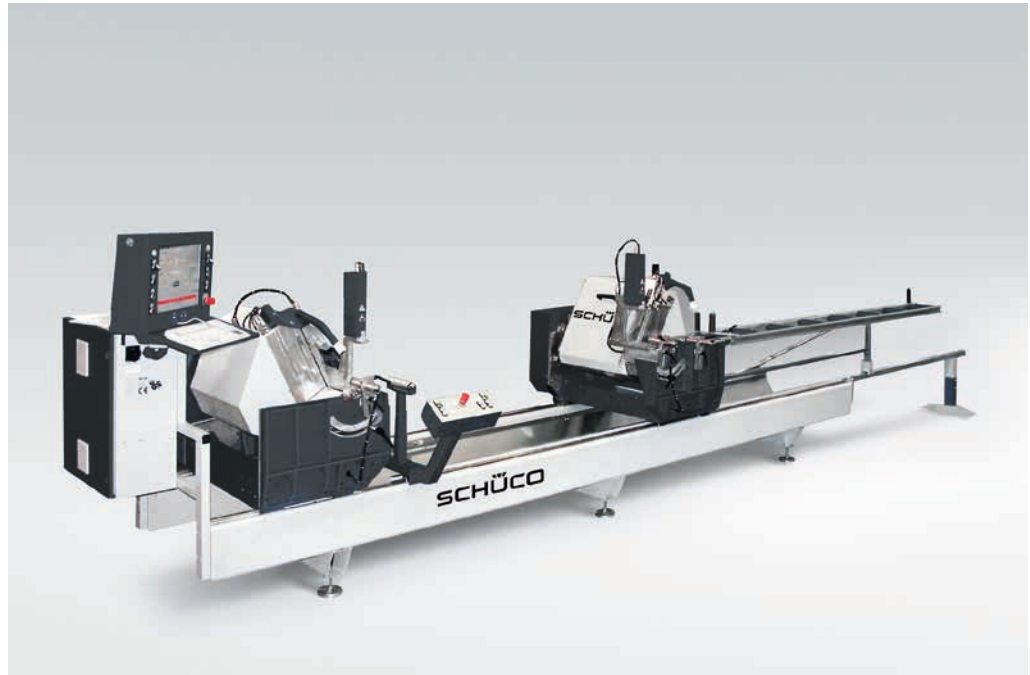
To ensure the same level of precision during fabrication and planning, Schüco Polymer Technologies KG also provides its partners with suitable machinery.

	Production capacity				
	General	Up to 25 finished units	Up to 50 finished units	Up to 100 finished units	Over 100 finished units
Saws					
ZS 135 length cutting and mitre saw	■				
ZGS 311 double-headed mitre saw			■		
ZGS 314 double-headed mitre saw				■	
Machining					
FWS 381 drainage slot milling machine	■	■			
FWS 281 drainage slot milling machine	■		■		
GLF-100 glazing bead milling cutter	■				
DF 100 gasket milling machine	■		■		
SF 100/2 insulating bar milling machine	■		■		
SDF 100 NC insulating bar and gasket milling machine	■			■	
Processing systems					
Screw system with DS 1700 screw feed unit	■		■		
SBA-DS17-V2 screwing and drilling machine			■		
TH-PBZ-4 profile processing centre				■	
Welding					
AKS 1150 single-headed welding machine	■	■			
SZK 502 double-headed welding machine			■		
SMK 504 four-headed welding machine				■	
SMH 510 four-headed welding machine					■
Cleaning corners					
SV 290 automatic corner cleaner			■		
EPA 170 CNC automatic corner cleaner			■		
EPA 472 CNC automatic corner cleaner				■	
EPA 579 CNC automatic corner cleaner					■

	Production capacity				
	General	Up to 25 finished units	Up to 50 finished units	Up to 100 finished units	Over 100 finished units
Schüco VarioTec fittings machines					
KF 341 copy router		■			
RAE-100 locking bar length-cutting device		■			
FAZ-100 vent fittings centre				■	
FSA-100 vent automatic screwdriver					■
Glazing bead saws					
GLA 400 glazing bead saw			■		
GLA 403/401 glazing bead saw				■	■
LA 393 length stop			■		
LA 396/LA 396-DL length stop				■	■
End milling machines					
SAF 166 end milling machine	■	■			
AKF 6-S end milling machine	■		■		
SAF 165 end milling machine				■	
Copy routers					
KF 341 copy router	■				
KF 347 copy router	■				
Extraction units					
MS 160 swarf extractor	■				

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 ZGS 314

Schüco ZGS 314 double-headed mitre saw

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 servo motor. The saw is controlled by a PC control system using function keys, an Intel Pentium processor, disk drive and 17" monitor.



PRODUCT HIGHLIGHTS

- Toughened, polished guide tracks
- Direct measuring system with servo motor
- Two saw heads with hydro-pneumatic feeder
- Manual pivot range 45° - 90° - 135°
- Two saw motors with 3.0 kW, 2800 rpm
- Saw blade diameter 550 mm
- Centrally adjustable saw carriage
- 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 centre support to prevent profile deflections

NEW!



Schüco GLF-100

Schüco GLF 100 glazing bead milling cutter

The Schüco GLF 100 is a glazing bead milling cutter for manually post-processing glazing beads for small window dimensions. The machine is suitable for the Schüco CT 70 and Schüco Living profile systems. After being cut to length on the glazing bead saw, two glazing beads are held in place by a double clamping device and machined. This removes the need to bend and cut the beads in the retaining base.



PRODUCT HIGHLIGHTS

- Stable machine construction
- Milling spindle for accommodating one milling disc
- Pneumatic clamping device
- Depth stop for different recesses
- Simultaneous processing of two profiles
- Manual cutting feed
- Minimum glazing bead length: 70 mm
- Fabrication of glazing beads at 45° angle



Schüco DF 100

Schüco DF 100 gasket milling machine

The Schüco DF 100 is a gasket milling machine for automatic notching of the outer and vent frame gasket (glazing rebate gasket). The machine is fitted with two supports in order to machine two profiles in parallel in one working step.



PRODUCT HIGHLIGHTS

- **Robust and durable cast construction**
- **Milling spindle for accommodating one milling disc**
- **Pneumatic clamping device**
- **Simultaneous processing of two profiles**
- **Manual cutting feed**



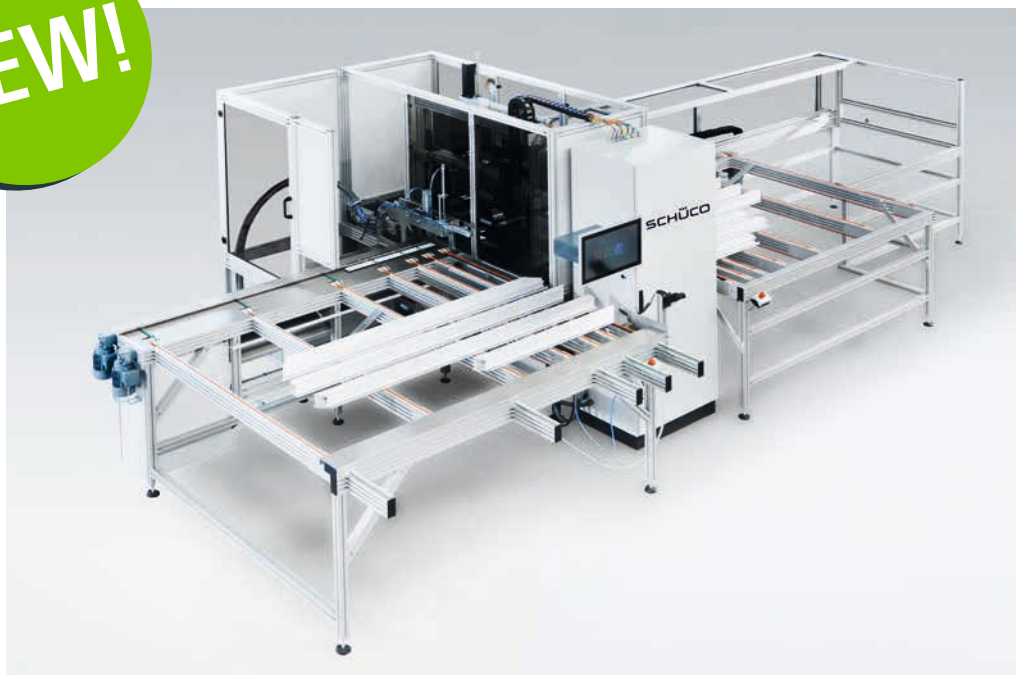
Schüco SDF 100 NC

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 CT 70 systems. The machine is fitted with two machining motors and 2-axis NC control, allowing two profiles to be processed 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.

PRODUCT HIGHLIGHTS

- 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 TH-PBZ-4

Schüco TH-PBZ-4 profile processing centre

All of the important components such as the control unit, operator guidance via monitor, scanner, and buffer for transport in/out have been clearly arranged in the modular processing centre for Schüco CT 70 and Schüco Living PVC-U systems. The PBZ profile processing centre construction can be accessed from all sides and ensures fast tool change, simple maintenance and servicing. The dynamic reinforcement screwdriver for aluminium/steel reinforcements is located on a separate servo axis in front of the live ring, so that the screw connection can be made in parallel with the processing. This function increases machine capacity by approx. 25%.



PRODUCT HIGHLIGHTS

- Variable tool set-up for up to 8 tools plus reinforcement screwdriver, including a set of replacement tools
- All milling and drilling units are located on a live ring and can be freely programmed
- Vertically adjustable screw positions as well as horizontally and vertically adjustable gripper positions
- The latest drive technology and low-maintenance precision guides
- DIN code can be programmed
- Online connection and remote maintenance via network
- Programmable drilling patterns and visual error diagnosis
- 24" touchscreen monitor
- 7/8 CNC control axes
- Compressed air supply NW 8 mm
- Max. profile height: 160 mm
- Max. profile width: 140 mm
- Infeed magazine: approx. 2500 mm long, approx. 2000 mm wide.
- Output magazine: approx. 4500 mm long, approx. 2000 mm wide



NEW!



Schüco SMH 510

Schüco SMH 510 four-headed 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° with throughput times of under 80 seconds. The machine works with a parallel feed process with electronic positioning control of the welding heads.

PRODUCT HIGHLIGHTS

- 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 transport out



Schüco EPA 579

Schüco EPA 579 automatic corner cleaner

The Schüco EPA 579 automatic corner cleaner is a CNC corner cleaning machine with up to seven axes for the complete processing of corners on PVC-U window frames.



PRODUCT HIGHLIGHTS

- 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 short throughput times
- High number of six tool positions at both top and bottom (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



Schüco RAE-100

Schüco RAE-100 locking bar length-cutting device

For efficiently fabricating Schüco VarioTec, Schüco VarioTec NI and Schüco VarioTec Air fittings systems with mechanised locking bar preparation. The Schüco VarioTec software is available as a calculation basis. An 11.6" tablet is optionally available to visually display the program-based and manual installation of fittings.

PRODUCT HIGHLIGHTS

- Short familiarisation time for the operator
- Standing reel with tilt function for easy fitting
- Manual locking bar feed using digital display and crank handle
- Locking bar punch with foot pedal and sliders
- Collecting tray for storing fabricated locking bars
- Pivoting support for fabrication documents or tablet
- High level of operational reliability
- Consistent quality



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 systems 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 installation can be a fully stand-alone work station or one included in a network.



PRODUCT HIGHLIGHTS

- 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



Schüco FSA-100

Schüco FSA-100 vent automatic screwdriver

The Schüco FSA-100 automatic screwdriver is a robust machine construction for automated installation of fittings. In conjunction with the Schüco FAZ-100 vent fittings centre, it allows fittings to be installed in less than two minutes. The extremely 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.

PRODUCT HIGHLIGHTS

- 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
- The machine is integrated between the fittings table and de-stacking
- 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 fitting systems



Schüco GLA 403/401

Schüco GLA 403/401 glazing bead saw

For cutting glazing beads with and without gasket to 45°. The machine has two special glazing bead locating grooves which allow two / four glazing beads to be cut simultaneously under tension. The machine is also distinguished by its high precision and continuously adjustable mounting angle.



PRODUCT HIGHLIGHTS

- Cutting to length and cutting the back of the glazing bead legs are carried out in a single operation
- Tool clamping and saw feed are operated using a pneumatic foot pedal
- Maximum profile height 50 mm and maximum profile width 50 mm
- Machine is supplied ready for use with accessories

SCHÜCO



CE marking




CE marking

Since 01/07/2013, 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 marking 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 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

Leistungserklärung
LE/DoP-Nr. 7001 A01/ CPR 2013-04-22

1. Kenncode des Produkttyps Schüco KS
2. Identifikationsnummer 7001 A01
3. Verwendungszweck, Fenster / Tür im Wohnungs- und Nichtwohnungsbau
4. Hersteller Fa. Mustermann, Musterstraße 99, D-12345 Musterhausen
5. Benennungszähler /
6. System zur Feststellung der Leistungseigenschaften 3
7. Notizen/Anmerkungen 2 Rosenheim NB-Nr. 0757 *
8. Wesentliche Merkmale

Wesentliches Merkmal	Leistungsklasse / Wert	Harmonisierte technische Spezifikation
Schlagregendichtheit (Klasse)	9A	EN 14351-1:2006 + A1:2010
Gefährliche Substanzen	-	
Widerstand gegen Windlast (Klasse)	C5 / B5	
Tragfähigkeit von Sicherheitsvorrichtungen	Schwellenwert erfüllt	
Schallschutz (dB)	rpd	
Wärmedurchgangskoeffizient (Wm ² /K)	1,3	
Strahlungseigenschaften Gesamternergiedurchlassgrad	0,61	
Strahlungseigenschaften Lichttransmissionsgrad	0,80	
Luftdurchlassgrad (Klasse)	4	
<p>9. Die Leistung des Produktes gemäß den Nummern 1 und 2 entspricht der erklärten Leistung nach Nummer 9.</p> <p>Verantwortlich für die Erstellung der Leistungserklärung ist allein der Hersteller gemäß Nummer 4.</p> <p style="text-align: center;">Unterschrift für den Hersteller und im Namen des Herstellers</p> <hr style="width: 50%; margin: 10px auto;"/> <p style="text-align: center;">Fa. Mustermann, Musterstraße 99, D-12345 Musterhausen/ 031/20013/ Unterschrift (techn. Leiter)</p> <p style="font-size: small; margin-top: 10px;">* Erprobungen durchgeführt und Klassifizierungsberichte erstellt oder Gleichwertigkeit durch den Hersteller sichergestellt</p>		

Declaration of Performance

System Schüco Livtag	Kunststoffsysteme Fenster und Türen	
Besonderheiten - / -		
Produktfamilien	<ol style="list-style-type: none"> 1. Dreiflügel Fenster & Fenstertüren 2. Stulpfenster & Fenstertüren 3. Dreiflügel Fenster & Fenstertüren mit Kombischwelle 4. Stulpfenster & Fenstertüren mit Kombischwelle 5. Fenstler-Alu mit Schiebe-Türen 6. Stulpfenster & Fenstertüren mit additiver Klebtechnik 	Schüco Produktleistungs-pass nach DIN EN 14351-1:2016-12
Rahmenmaterial PVC-U		
Eigenschaften	Klasse / Wert	Nr. KS1016339_DE-01 Gültig bis 01.02.2019
Widerstandsfähigkeit gegen Windlast	bis C3 / B3	Grundlagen EN 14351-1:2006 (3) Fenster und Außentüren Der Schüco Leistungs-pass zeigt die Leistungseigenschaften der bezeichneten Systeme mit ihren Produktfamilien nach den Vorgaben der Produktnorm. Für die Anwendung der Leistungseigenschaften gelten die nationalen technischen Bestimmungen sowie die vertraglichen Vereinbarungen. Veröffentlichungshinweise Es gelten die Lizenz- und Nutzungsbedingungen der Schüco International KG .. Obligationen nachweis – wenn erforderlich ** nicht anwendbar für Fenster ohne Außenbau (bei Durchschleusen) *** gilt nur für Fenster mit integrierter Lüftungseinrichtung **** Nachweis entsprechend Bestimmungslage
Widerstandsfähigkeit gegen Schnee und Dauerlast	nicht relevant**	
Brandverhalten	nicht relevant**	
Schlagregendichtheit	bis 9A	
Gefährliche Substanzen	IE EN14351-1 Abschnitt 4.6	
Stabilität	Klasse 3	
Tragfähigkeit von Sicherheitsvorrichtungen	rpd	
Hitze und Kälte	nicht relevant**	
Fähigkeit vor Feuchte	nicht relevant**	
Schallschutz	R_C2 bis 47/1-1-3 dB	
Wärmereflektivkoeffizient	-	
Strahlungseigenschaften	CE-Zeichen Verglebung	
Luftdichtheitsgrad	Klasse 4	
Bodenschalle	Klasse 1	
Mechanische Festigkeit	Klasse 4	
Lüftung	-	
Durchschleusen	rpd	
Spritzschutz	rpd	
Dauerlastempfindung	Klasse 2	
Differenzdruckverlust	3A / 3D	
Erdbebenempfindung	rpd	

Product performance certificates



SCHUCO

SCHUCO

An overview of the company

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.

As a wholly-owned subsidiary of Schüco International KG, we drive forward the global PVC-U business under the umbrella of a strong

brand and from the secure foundation of a family-run business. 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.

Part of the Otto Fuchs Corporate Group

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

Expertise:

Window and door systems, façade systems

Employees:

5650 employees worldwide

International presence:

Active in over 80 countries

Group turnover:

1.750 billion euros (2019)

Network:

More than 12,000 fabricators, architects, developers and investors worldwide

OTTO FUCHS KG

As an innovative development partner, 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:

Derschlagener Straße 26, 58540 Meinerzhagen

Expertise:

Innovative semi-finished products and components made from aluminium, magnesium, copper, titanium and nickel alloys

Employees:

More than 10,000 employees worldwide

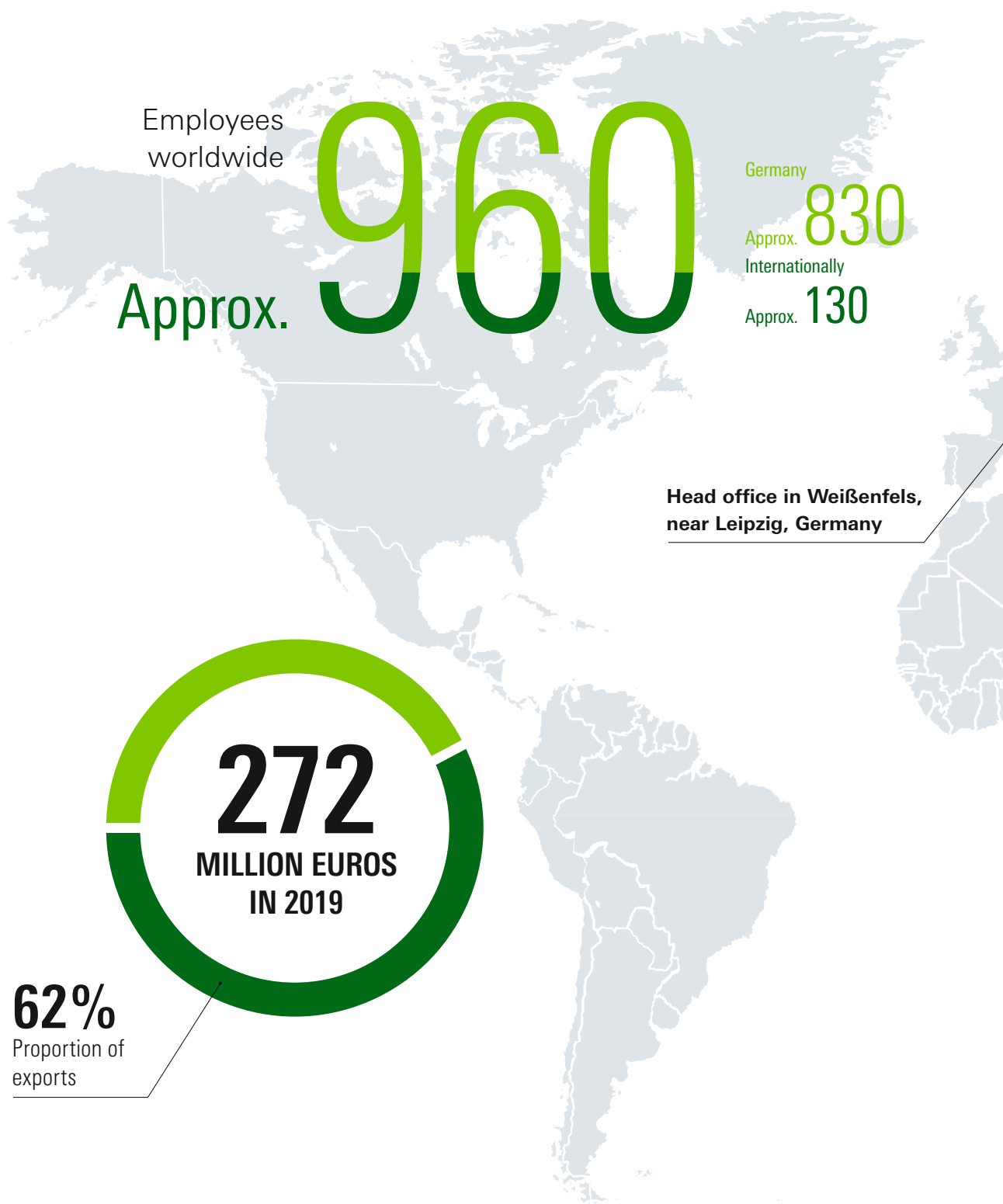
International presence:

Active with subsidiaries in Europe and overseas

Group turnover:

2.810 billion euros (2018)

Company profile





ACTIVE IN
OVER **50**
COUNTRIES

APPROX.
3100
PARTNERS

35 YEARS
OF DEVELOPING PVC-U
SYSTEMS READY FOR THE
FUTURE

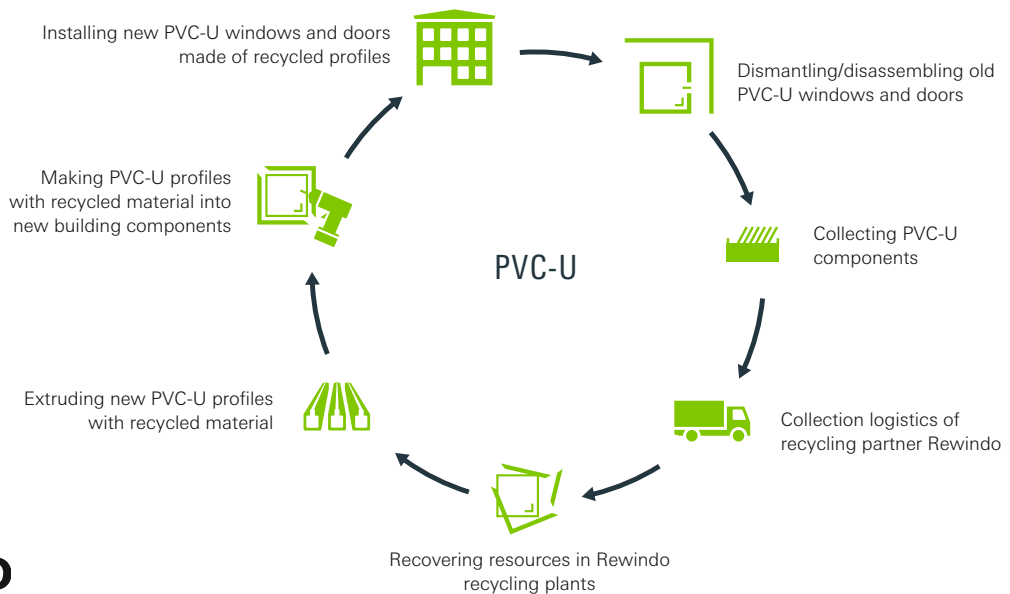
Sustainability – taking responsibility

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, conservation of resources, 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.

Schüco sees the more efficient use of PVC and controlled cycles as an important basis for the future development of the PVC-U industry and is addressing these challenges.

Controlled material cycles

As a founding member and managing partner of Rewindo, Schüco actively supports the recycling of PVC-U windows and doors. Rewindo is a coalition of leading PVC-U profile manufacturers. 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

Persistent organic pollutants must not be able to accumulate in nature and emissions must be demonstrably reduced. Schüco procures its basic raw materials from producers who are certified in accordance with the ECVM Industry Charter and who produce sustainably and transport raw materials safely.

Sustainable use of additives

The PVC-U used by Schüco is calcium/zinc-stabilised in a way that is environmentally friendly. 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 sense of 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 and re-certified with the VinylPlus label, Schüco is the first company 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



A portrait of a middle-aged man with short, light-colored hair and a goatee, smiling. He is wearing a dark blue suit jacket over a white button-down shirt and dark trousers. He is standing in a modern office environment with a grey textured wall and a wooden panel on the left. The lighting is soft and professional.

“Sustainability is
not a trend –
it’s an
attitude.”

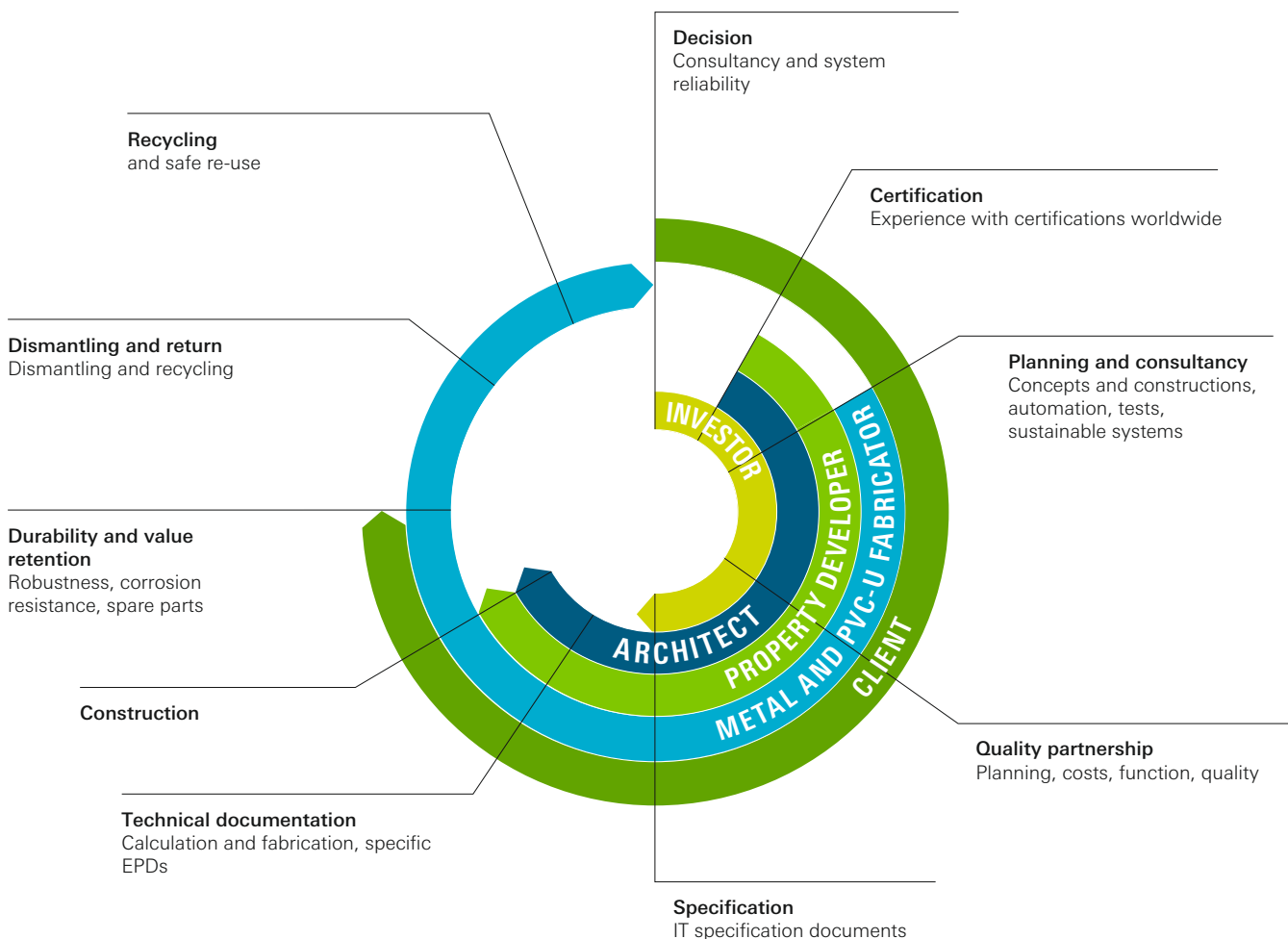
Andreas Engelhardt
Managing Partner

Sustainability in the construction sector means designing, constructing and operating a property in such a way that it is ecologically, economically and socially future-proof.

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

Saving energy, reducing CO₂ emissions and using material resources carefully are likewise essential and self-evident aspects of our work. With our products, we are a trailblazer in the industry, and are contributing towards achieving the 1.5° climate target set by the Paris Agreement.

With us, clients can rest assured that their construction projects are economical, resource-friendly and future-proof – that is, they retain their value in the long term.

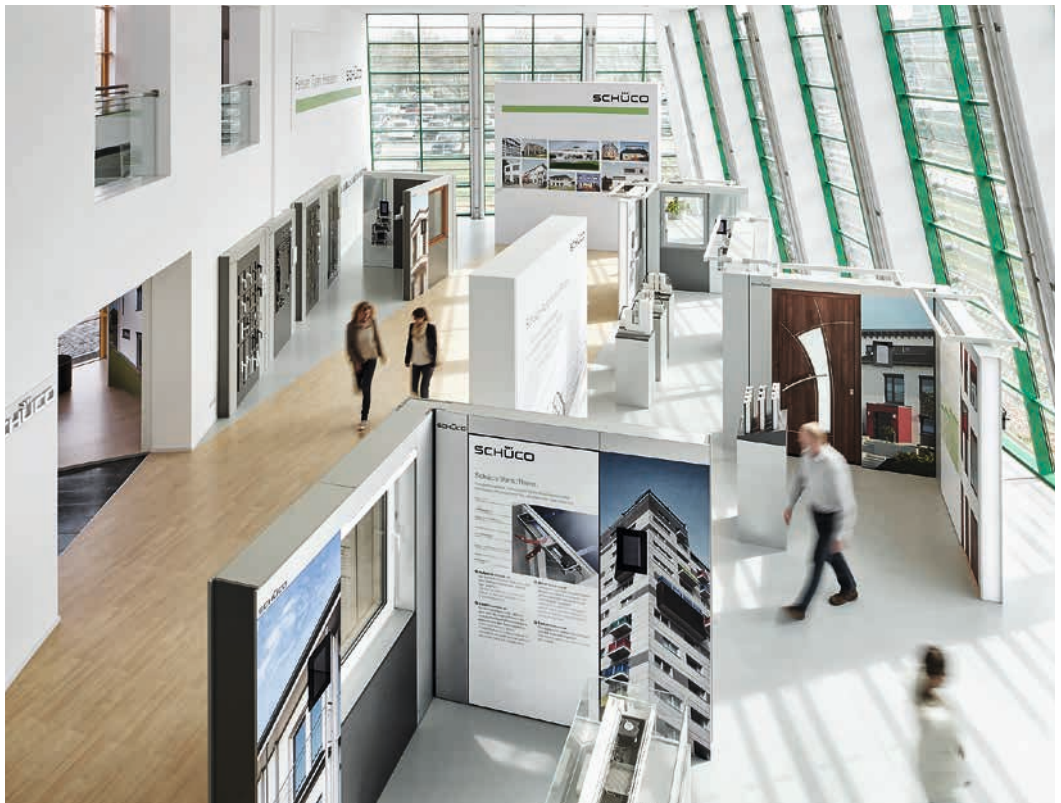


For more information and to view our sustainability report, visit www.schueco.de/nachhaltigkeit

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 fulfilling the highest requirements in terms of sustainability, comfort and security. www.schueco.de/showrooms



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all
highlights!

www.schueco.com/polymer_highlights



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Schüco – System solutions for windows, doors and façades

Based in Bielefeld, the Schüco Group develops and sells system solutions for windows, doors and façades. With more than 5.650 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 and achieved a turnover of 1.750 billion euros in 2019.

