

Schüco ASE 60/80.HI

Aluminium sliding system



Schüco ASE 60/80.HI - new standards for aluminium sliding systems



Large vents provide plenty of creative freedom

Continuously and systematically optimising tried-and-tested products has always been part of the DNA of Schüco. A prime example of this is the platform for the highly thermally insulated Schüco ASE 60/80.HI (Aluminium Sliding Element High Insulation) sliding systems. While developing the system concept, the focus was on both the platform concept and fabrication details. With its innovative platform, Schüco is setting new standards for aluminium sliding doors. The profile systems offer pioneering thermal insulation up to passive house level combined with a highly varied range of technology, functions and designs.

This includes a host of ground breaking developments: optimised use of identical parts, a modular fittings system, expanded range of sizes and opening types as well as slimline profiles and solutions for preventing the bi-metallic effect. The high level of flexibility in planning and design within the platform ensures attractive sliding system solutions for a wide variety of requirements in luxury residential and commercial construction.

Architecture

New dimensions in design freedom

The Schüco ASE sliding system generation offers a range of configurations and designs which meet all of the requirements of commercial and residential construction. This includes the extended range of sizes, higher vent weights as well as opening options running internally and other opening types. A profile-integrated safety barrier provides the utmost protection – without detracting from the architectural design.



Schüco ASE 60/80.HI
maximum transparency

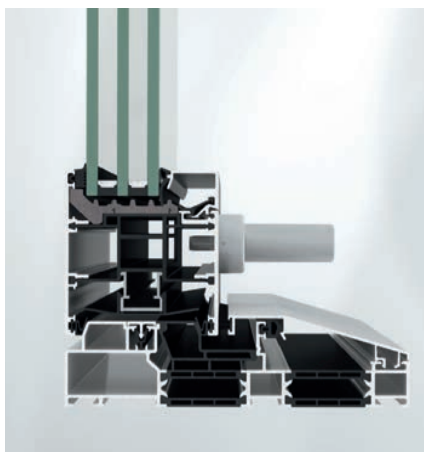
Maxium Transparency

Large-scale units up to 3500mm x 3200mm or 3200mm x 3500mm create a pleasant atmosphere with living spaces that are flooded with light.

More opening types

The extended range of opening types opens up more freedom for individual design.

- Single-track systems running internally
- Opening type 1C
- 90° corner opening type



Schüco ASE 60/80.HI
clever design solutions

Clever design

Solutions integrated in the profile ensure an extremely secure system without detracting from the building architecture.

Technology

With their optimised insulation zones, the profile systems offer significantly improved thermal insulation properties in all basic depths, even up to passive house level with a basic depth of 80 mm. All system design options, be it single, double or triple-track, are based on multi-functional profiles which facilitate optimum use of identical parts. A further benefit is that the modular fittings system can be used as a sliding or lift-and-slide fitting as, apart from a few exceptions, the components are identical.

The technology of the ASE sliding system platform meets the latest standards of modern building in terms of security and design too. The burglar-resistant solution is designed without security pins in the interlock area. This ensures simple operation of the system combined with an appearance that does not differ from the standard design. Burglar resistance can also be combined with the split insulating bar vents for even better compensation of the bi-metallic effect.



Modular profile system

All system designs are based on profile modules with a small number of half profiles – perfect for creating a wide variety of modular and flexible unit solutions.

More flexibility

The new fittings platform allows two operating types to be achieved with minimum use of components: sliding or lift-and-slide vents.

High level of security

State-of-the-art fittings solutions with security components that are not visible from the outside ensure the highest level of security without compromising on aesthetic design.

All opening types are based on profile modules with few half profiles



Schüco ASE 60 and ASE 80 lift-slide fitting comparison



Design

The innovative ASE platform offers new profile and fittings options which allow pioneering design solutions. The slimline interlock section with minimal sight lines ensures maximum transparency. The level threshold guarantees a smooth, barrier-free transition from inside to outside. Overall, the system stands out with its stylish, high-quality overall appearance with clean lines which can also be optimised with the new fittings option with bolt pins in the vent.



Narrow interlock section and ease of access

Narrow interlock section

An ultra slimline interlock section of only 40 mm is also available for maximum transparency.

Ease of access in the system

The use of a level threshold facilitates a barrier-free transition from inside to outside.



flexible locking options

Flexible locking options

For a particularly puristic design, the bolt pins can be fixed in the vent frame instead of the outer frame.

Comfort

For maximum individual ease of use, various function packages can be selected and combined for the ASE sliding systems. The extensive range includes fully automated control of the system by means of Schüco TipTronic, operating and security options such as Schüco SmartStop and Schüco SmartClose, which support the closing process, and mechanical solutions which help the user lift and lower the sliding vent by means of spring tension.



Schüco SmartStop/SmartClose

Integrated SmartStop and SmartClose modules slow the vents down gently and support the closing process. Moreover, depending on the system version, the vent is automatically drawn into the closed position.

Schüco SmartStop/SmartClose supports the closing process



Operation at the touch of a button

Schüco TipTronic can be used to move large vent units weighing up to 600 kg to be moved fully automatically, easily and comfortably.

Schüco TipTronic automatic slider operation

Schüco ASE 60/80 TipTronic



Generous opening widths and height offers boundless comfort

Schüco ASE 60/80 TipTronic (Aluminium Sliding Element) sets new standards in mechatronic sliding systems. This innovative generation of fittings not only offers the fully concealed installation of all fittings components, but also a fully tested system consisting of a drive, fitting and profile system – all from a single source.

With generous vent units of up to 3.5 x 3.2 metres or 3.2 x 3.5 metres, you can experience a new spatial dimension. The interplay with particularly narrow face widths creates a level of transparency that blurs the boundary between indoors and outdoors. When combined with the wide range of different opening types and various comfort options, it means that any design and aesthetic requirements can be met.

Schüco ASE 60/80 TipTronic



- 1 Sliding drive
- 2 Lifting drive and locking motor
- 3 Toothed rack
- 4 Contact rails
- 5 Vent control unit
- 6 Main control unit
- 7 Sensors
- 8 Operating switch on vent

Schüco ASE 60/80 TipTronic



Maximum opening widths
up to 18m

Vent weights up to 600kg are now possible, with vents available in both internally and externally running configurations. The travel of the sliding system has also been maximised up to approximately 18m. The new system permits extremely simple cabling and assembly without the need for a cable link connector between the vent frame and outer frame. Operation, using either the "Building Skin Control" app or the operating switch, is like-wise simple and comfortable, so that reliable operation for all user groups is guaranteed.

Outstanding design ensures a wide range of options via single, double and triple-track opening types. The fittings system, which is also modular, can be used as both sliding and lift-and-slide fittings; apart from a few exceptions, all the components are identical. Comprehensive security functions such as integrated software protection, sensor strips and the option of using security sensors ensure secure operation in all installation scenarios.

Schüco TipTronic and Building Skin Control

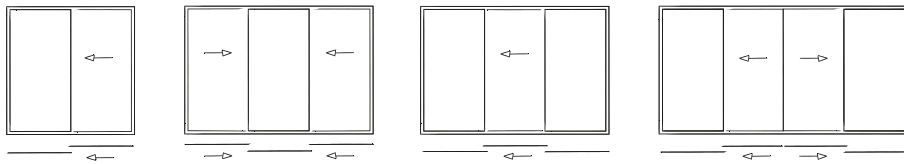


One system for all units: Schüco Building Skin Control (BSC), the comprehensive platform for the integration, control and monitoring of mechatronic Schüco units, has an open inter-face for maximum variety. It can be connected to open building management systems such as KNX or BACnet as well as external smart home systems such as Amazon Alexa. All mechatronic Schüco units and functions are comprehensively commissioned and configured using the Automation Engineering Tool software. Integrated sensor technology allows automated functions for maximum comfort, such as time-controlled window ventilation or energy-saving night-time cooling. The innovative technology opens up new levels of application freedom.

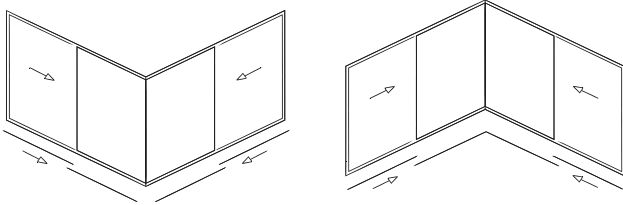
With Schüco BSC, Schüco windows and sliding systems can be operated easily by means of voice command without having to use a smartphone or button. For example: "Alexa, ventilate the living room." The new Schüco dashboard offers an individual overview of all Schüco BSC systems installed in projects in one web interface. The spectrum ranges from adjustable maintenance cycles for each project, group or unit, through to automatic notifications for pending maintenance or events. All units can be assigned to buildings, floors and rooms, allowing them to be localised easily and quickly if there is an event or maintenance is required.

Opening and track types

Sliding units with 1 track



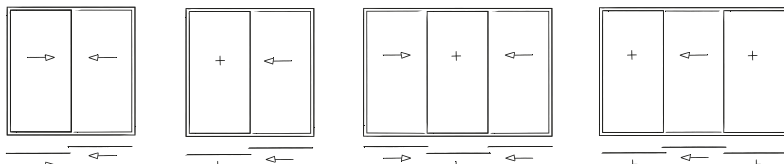
1A ● ▲ 1B ● ▲ 1C ● ▲ 1D ● ▲



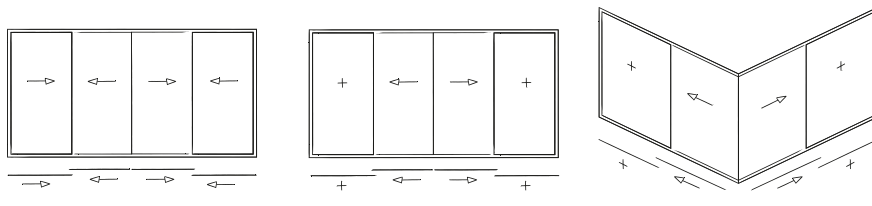
1B 90° outside ● ▲ 1B 90° inside ● ▲

Variety of opening types Select your individual product solution from countless options – to run inside or outside. All opening types are available as both sliding and lift-and-slide solutions. 90° corners are only possible as a lift-and-slide unit.

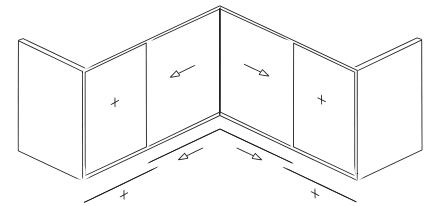
Sliding units with 2 tracks



2A ● ▲ 2A/1 ● ▲ 2B ● ▲ 2C ● ▲



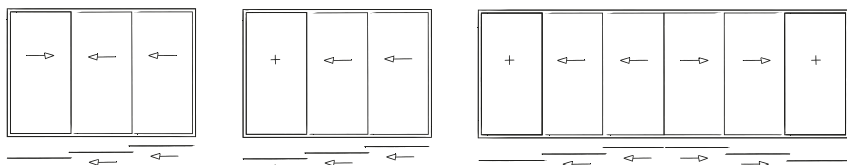
2D ● ▲ 2D/1 ● ▲ 2D/1 90° outside ● ▲



2D/1 90° inside ● ▲

● ASE 60/80.HI
▲ ASE 60/80.HI TipTronic

Sliding units with 3 tracks



3E ● ▲ 3E/1 ● ▲ 3F ● ▲

Technical data

Maximum dimensions (W x H)
3.5m x 3.2m or 3.2m x 3.5m
Maximum vent weights

ASE 60/80.HI 500 kg
ASE 60/80.HI TipTronic 600 kg

Design, fabrication and installation

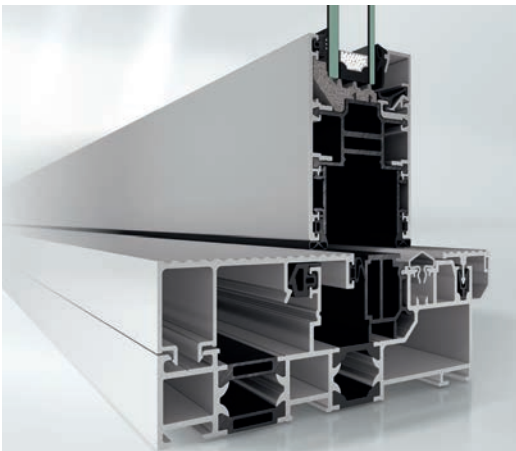


Schüco ASE 80.HI

New principles and details have been introduced in the fabrication of the Schüco ASE 60/80.HI sliding system range. In contrast to previous series, the whole fabrication process is now identical for both basic depths. This makes the project-specific selection of the right basic depth for fabrication more flexible. The corner cleats can be fabricated with either nails or screws. Using preassembled components, fabrication is quicker and more reliable. This means that, for example, moulded parts are available with pre-machined end contours to enable a butt-joined attachment of the PVC-U profiles in the outer frame.

With TipTronic, signal and energy transfer takes place without cable link connectors between vent and outer frame, while cable guide channels save time during cabling. The main control unit for TipTronic, integrated in the outer frame, facilitates quick fabrication and allows easy access for servicing and maintenance. The new wizard function provides easy and secure guidance through the individual commissioning steps.

Innovative TipTronic technology based on drive and control components integrated in the profile makes possible vent weights of up to 600kg, twelve different opening types, and allows vents to move up to 18m (depending on the opening type).



Schüco ASE 60.HI

The system can be controlled in various ways by means of a high-quality operating switch on the vent, with visual status display via the wall-mounted switch, the Schüco app or via a connection to the home automation system. All versions of the sliding units may also be seamlessly integrated into the Schüco Building Skin Control system.

Product benefits and performance characteristics

Investment security

Schüco ASE 60/80.HI

- Modular and scalable profile system: Highly versatile and flexible
- A variety of different opening types: Almost unlimited design freedom
- Use of high-quality components ensures reliable and long-lasting system solutions
- TipTronic: Mechatronic system with concealed fittings components offers a high quality design even when the vent is open

Planning benefits

- Modularity of the scalable profile systems guarantees high versatility in terms of thermal insulation
- Level thresholds and narrow coupling profiles: Highlights in comfort and design
- Concealed fittings groove without visible technical components: Clear and high-quality aesthetics
- Various operating possibilities of TipTronic enable direct integration of sliding units in Building Skin Control

Fabrication benefits

- Vent fabrication without rolling to reduce the bimetallic effect, even for RC solutions
- Use of just one fittings system for both sliding and lift-and-slide applications reduces complexity and storage
- Multifunctional components: Short fabrication time and increased process reliability
- Simple fabrication and fast installation of TipTronic: No cable link connectors between vent frame and outer frame
- Wizard function for easy and secure guidance through the individual commissioning steps for TipTronic

Tests and Regulations	ASE 60	
Type	Standard	Value
Wind load resistance	DIN EN 12210*/**	to Class C5/B5
Weathertightness (Class)	DIN EN 12208**/**	to Class E1050
Air permeability (Class)	DIN EN 12207**	to Class 4
Operating forces	DIN EN 13115**	Class 1
Burglar resistance	DIN V ENV 1627*	to Class 2
Thermal insulation	DIN EN ISO 10077-2**	Ab from 1.1 W/m ² K
Corrosion protection	DIN EN 1670**	Class 4

Tests and Regulations	ASE 80	
Type	Standard	Value
Wind load resistance	DIN EN 12210*/**	to Class C5/B5
Weathertightness (Class)	DIN EN 12208**/**	to Class E1050
Air permeability (Class)	DIN EN 12207**	to Class 4
Operating forces	DIN EN 13115**	Class 1
Burglar resistance	DIN V ENV 1627*	to Class 2
Thermal insulation	DIN EN ISO 10077-2**	Ab from 0.99 W/m ² K
Corrosion protection	DIN EN 1670**	Class 4

*The amount of deflection will depend on the profile

**Depending on the design

***Valid for lift-and-slide series

Schüco ASE 60/80.HI



The ASE 60/80.HI (Aluminium Sliding Element High Insulation) sliding systems offers pioneering thermal insulation up to passive house level combined with highly varied range of technology, functions and design. Optimised use of identical parts, modular fittings system, expanded range of sizes and opening types as well as slimline profiles ensures attractive sliding system solutions for a wide variety of requirements in luxury residential construction.

Schüco International KG

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

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Overview

	Schüco ASS 77 PD.SI	Schüco ASS 77 PD.HI	Schüco ASS 50	Schüco ASS 80 FD.HI	Schüco ASS 70 FD	Schüco AS FD 90.HI	Schüco AS FD 75	Schüco AS PD 75.HI	Schüco ASE 67 PD	Schüco ASE 80.HI	Schüco ASE 80	Schüco ASE 60	Schüco AWS 90.SI+ PASK
Energy													
Thermally insulated			■		■		■		■				
High Thermally insulated	■	■		■		■		■		■	■	■	■
Design													
Basic depth of vent frame in mm	77	77	50	80	70	90	75	75	67	80	80	60	100
Number of tracks													
Single track			■	■	■	■	■		■	■	■	■	■
Double track	■	■	■					■	■	■	■	■	
Triple track			■						■	■	■	■	
Maximum vent weight in kg	500	500	400	100	100	150	150	500*	400	600	600	600	250
Fittings													
Crank handle			■										
Sliding handle			■					■**	■	■	■	■	
Tilt / slide handle													■
Folding handle				■	■	■	■						
Door handle				■	■	■	■						
Window handle				■	■	■	■						
Operating switch	■	■						■**		■	■	■	
Opening types													
Sliding vent	■	■	■					■		■	■	■	
Lift-and-slide vent			■							■	■	■	
Tilt / slide units													■
Folding sliding door				■	■	■	■						
Areas of Use													
Window	■	■	■	■	■	■	■	■		■	■	■	■
Door	■	■	■	■	■	■	■	■		■	■	■	■

*AS PD 75.HI max weight: 500kg Manual / 600kg Performance Line / 800kg Mechatronic

**AS PD 75.HI fittings: Access Line & Design Line manual or mechatronic operation / Performance Line mechatronic operation only

Overview

	Schüco ASS 77 PD.SI	Schüco ASS 77 PD.HI	Schüco ASS 50	Schüco ASS 80 FD.HI	Schüco ASS 70 FD	Schüco AS FD 90.HI	Schüco AS FD 75	Schüco AS PD 75.H	Schüco ASE 67 PD	Schüco ASE 80.HI	Schüco ASE 80	Schüco ASE 60	Schüco AWS 90.SI+ PASK
Series													
Security													
Burglar resistance in accordance with DIN EN 1627													
RC2 (WK2)	■	■	■	■	■	■	■	■		■	■	■	■
Monitoring of closing		■				■	■	■		■	■	■	
Automation													
Schüco e-slide			■										
Schüco TipTronic	■	■						■		■	■	■	
Access Control	■	■	■					■					



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