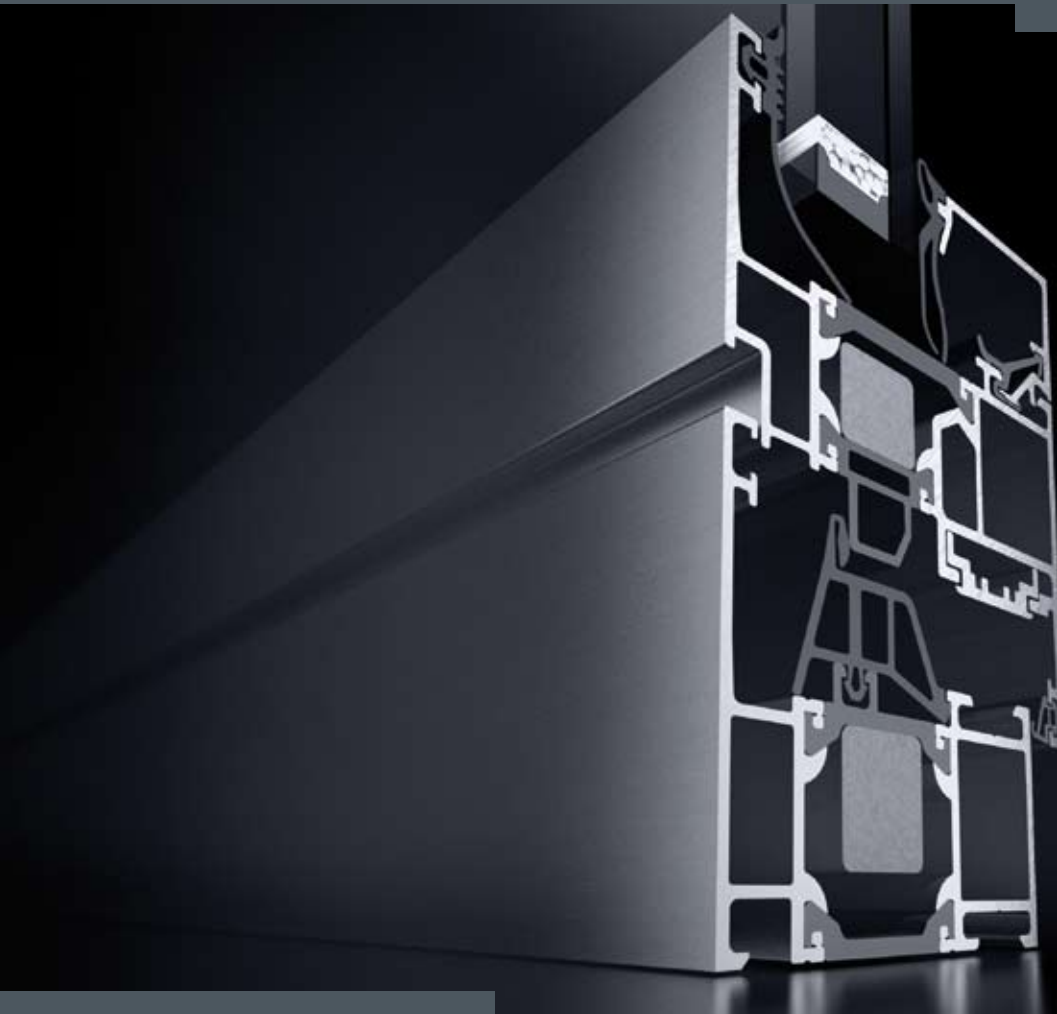


Schüco Window AWS



The challenge is...

...to view the energy crisis as an opportunity.

For a long time, environmental and energy-related issues were only of secondary importance in architecture. However, this situation has now changed substantially. Higher energy prices and the increasing scarcity of fossil fuels has made the energy-efficient planning of buildings more and more important, not least because the energy balance has a major impact on operating costs and therefore on the economic viability of a building. The energy crisis is therefore both an opportunity and an impetus for growth.

Energy

The increasing importance of energy, also in view of the introduction of the energy passport, will alter the design of buildings. A large number of outstanding architectural examples demonstrate that climate concepts do not just reduce energy and building costs, they can also be attractively integrated into the design of a building. Window profiles, solar shading and anti-glare systems can be incorporated within a streamlined architecture or used as a deliberate stylistic device.

Security

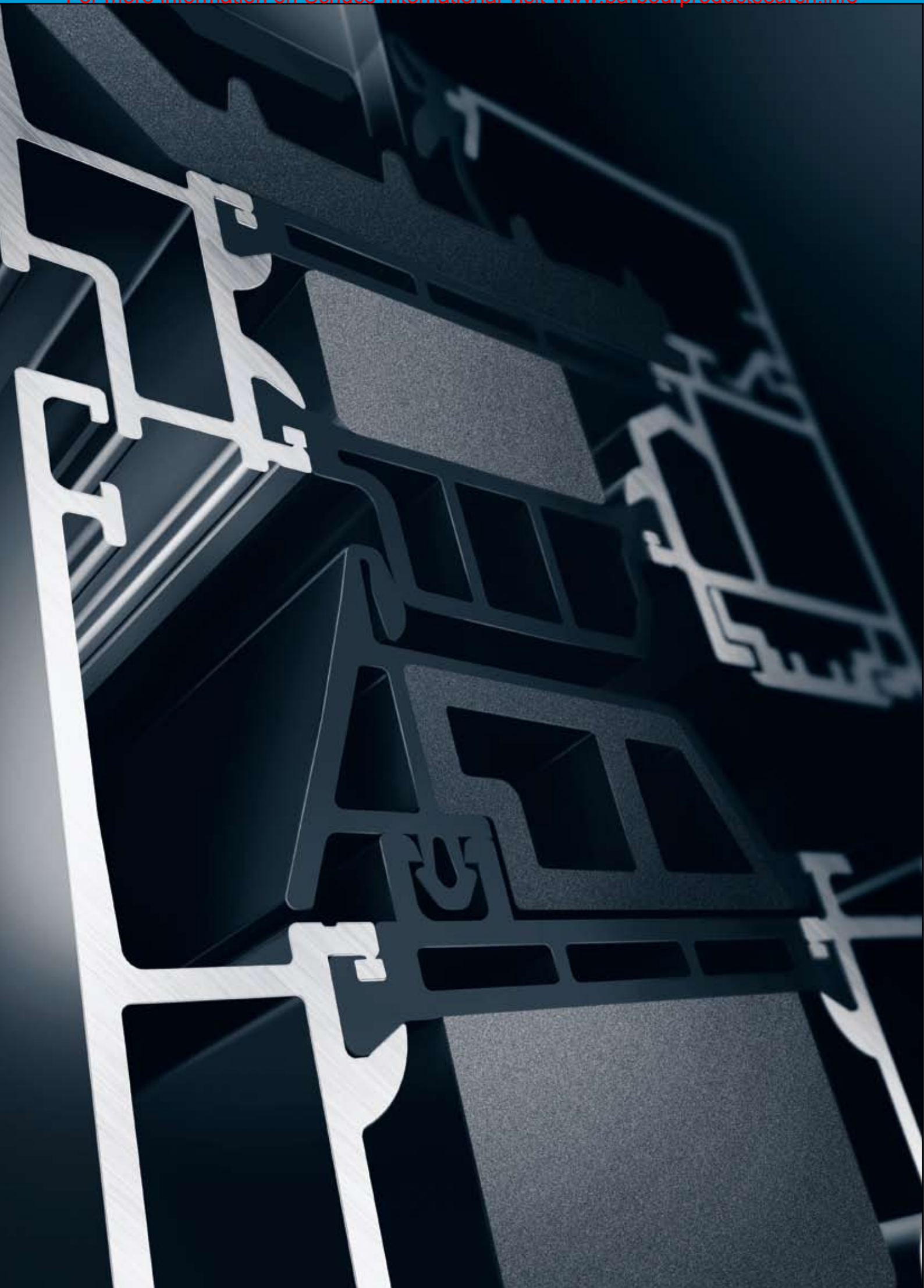
In addition to their basic job of protecting against the elements, heat and cold, buildings also provide a protective function that goes well beyond the security of individual building components. Buildings must provide their occupants with a feeling of safety and security, whether the dangers in question are real or imagined. However, this gives rise to a conflict in architecture: between the need for security on the one hand and the need for transparency on the other. In order not to trigger any feelings of distress or of being observed, security features must be incorporated as invisibly as possible, whether in the shape of biometric access controls or "invisible" SHEVS.

Automation

Building automation offers new, previously unimagined possibilities. These now go beyond air conditioning units, heating and water treatment systems. With digital control technology, solar shading, glare protection, light control and air conditioning can be adjusted to suit individual needs, allowing not just the best possible protection against external weather conditions but also providing for a pleasant interior climate. Building technology must also be reliable and easy to operate.

Design

And yet there is much more to design than form and styling: good design is a complex process combining various and often conflicting requirements including ergonomics, design, surface finish, durability, function, environmental protection and comfort. Reduction to the essentials means more, not less. It means greater focus on function and perfection of design. Greater focus on technology. And more communication with architects and planners.



Schüco Window AWS - the new generation of windows

Schüco Window AWS 50

Schüco Window AWS (Aluminium Window System) combines unique architectural and design features with functional benefits. With basic frame depths ranging from 50 to 75 mm and excellent thermal performance, the new system provides a complete solution for both architects and fabricators.

Maximum design freedom is ensured through an extended range of inward and outward opening windows and a variety of frame design and insulation options, while fabricators profit from a wider range of products utilising fewer but interchangeable components.

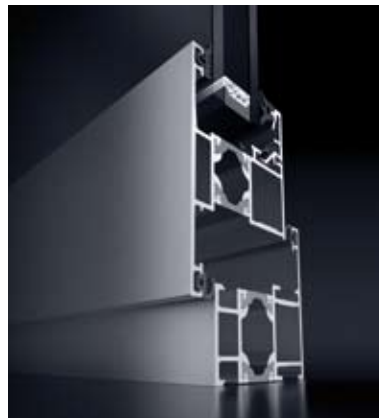
Slim sightlines from as little as 67 mm provide large glass areas, allowing the creation of elegant and streamlined façades with innovative concealed hardware. Operated manually or automatically via simple controls or a central building management system, these new fittings are complemented by the stylish, ergonomic and uniform handle range which won Schüco the Hannover Industrial Forum iF Award 2006.

The result? Interfaces between windows, doors and façades that are harmonised in both technology and appearance.

Together with energy-saving, design and automation benefits, the Schüco Window AWS system also meets the challenge of improved building security. With enhanced fittings and glazing, burglar-resistant units are able to meet security levels up to Class 3 of the new European standard BS EN 1627.



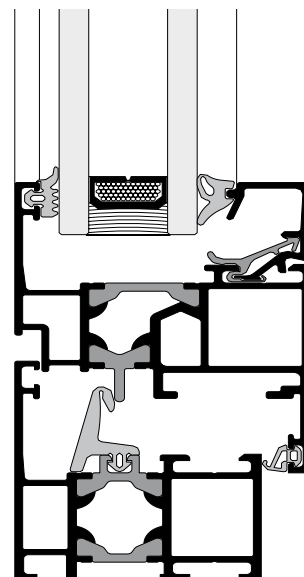
Schüco AWS 50
Inward opening window



Schüco AWS 50
Outward opening window

Features

- Thermally insulated window system with basic frame depth of 50 mm
- Inward and outward opening units including top hung, side hung, tilt turn, pivot and top swing
- Typical frame U value (U_f) 3.0 W/m²K
- Rounded (SL) and bevelled (RL) frame design options
- Comprehensive range of ancillary profiles including structural mullions, couplings, corner connections, sills and expansion joints
- Compatible with Schüco door range



Schüco AWS 50
Thermally insulated frames with
centre sealing gasket

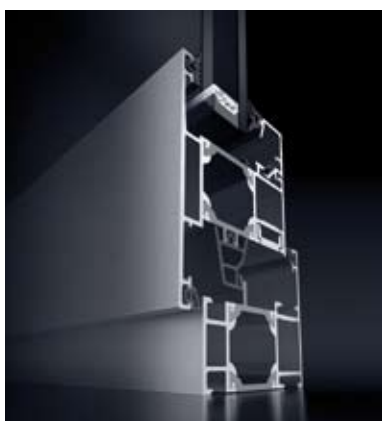
Schüco Window AWS 60 and AWS 65



Schüco AWS 60
Inward opening window



Schüco AWS 60 BS
Concealed vent block system window



Schüco AWS 60
Outward opening window



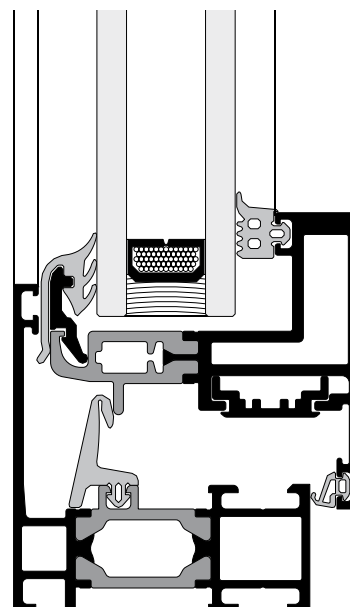
Schüco AWS 65 RL
Residential Line window with exterior bevelled frames



Schüco AWS 65 BS
High levels of thermal insulation thanks to hollow chamber insulating bar and multi-chamber centre gasket

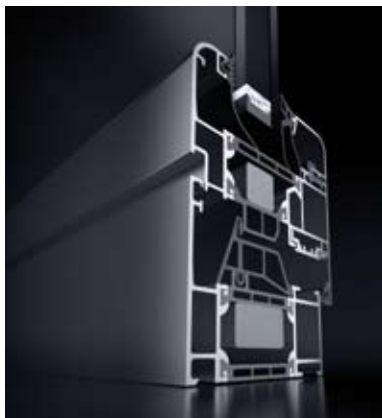
Features

- Thermally insulated window systems with basic frame depths of 60 mm and 65 mm
- Improved thermal performance plus High Insulation (HI) versions
- Typical frame U values (U_f) from 2.6 W/m²K to 2.0 W/m²K
- Inward and outward opening units including top hung, side hung, tilt turn, pivot and top swing
- Wide choice of frame design options including bevelled (RL), rounded (SL) and concealed vent (BS)
- Security levels up to WK3
- TipTronic window operation possible
- Compatible with Schüco door range



Schüco AWS 60 BS
Concealed vent window with slim face widths from 67 mm

Schüco Window AWS 70 and AWS 75

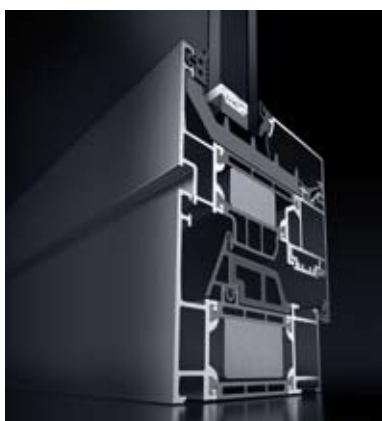


Schüco AWS 70 SL.HI
Softline High Insulation window
with rounded vent contour

Schüco AWS 70

Features

- Thermally insulated window system with basic frame depth of 70 mm
- Increased thermal performance across the range with High Insulation (HI) profiles as standard
- Typical frame U value (U_f) 1.6 W/m²K with 117 mm face width
- Full range of inward opening windows including crank handle operation for extra large elements
- Rounded (SL), bevelled (RL), steel look (ST), concealed vent (BS) and window façade (WF) frame design options
- Security levels up to WK3
- TipTronic option
- Compatible with Schüco door range



Schüco AWS 75.SI
Super Insulation window with
U value of 1.4 W/m²K

Schüco AWS 75

Features

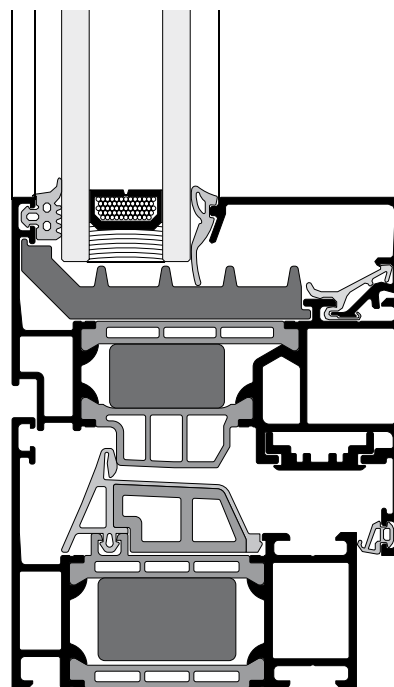
- Outstanding thermal insulation with basic frame depth of 75 mm
- Class-leading frame U values (U_f) down to 1.4 W/m²K with 117 mm face width with top of the range Schüco AWS 75.SI
- Complete system of tilt turn, side hung and bottom hung inward opening windows
- Concealed vent (BS.HI) frame design option
- Security levels up to WK3
- TipTronic option



Schüco TipTronic
The first fully mechatronic turn/tilt fitting. Burglar resistant to security class 2 with at least four security locking points



Schüco AvanTec
This mechanical, concealed fitting offers the advantages of clear-cut styling. Burglar resistant to security classes 2 and 3



Schüco AWS 75.SI
The new thermal insulation standard for aluminium windows

	AWS 50	AWS 50 RL	AWS 50 SL	AWS 60	AWS 60 RL	AWS 60 SL	AWS 60 BS	AWS 60 HI	AWS 60 SL HI	AWS 65	AWS 65 RL	AWS 65 SL	AWS 65 BS	AWS 70 HI	AWS 70 RL HI	AWS 70 SL HI	AWS 70 BS HI	AWS 70 ST HI	AWS 70 WF HI	AWS 75 SL	AWS 75 BS HI
Energy																					
Thermally insulated	■	■	■	■	■	■			■	■	■	■									
Highly thermally insulated							■	■					■	■	■	■	■	■	■	■	■
U _v values (Wm ² /K)	3.0	3.1	3.0	2.6	2.6	2.6	2.5	2.0	2.0	2.2	2.2	2.2	1.6	1.6	1.6	2.0	1.9	2.2	1.4	1.8	
Face width (mm)	117	117	117	117	117	117	89	117	117	117	117	89	117	117	117	89	99	82	117	89	
Design																					
Basic depth																					
50 mm	■		■																		
60 mm		■		■	■	■	■	■	■												
65 mm									■	■		■									
70 mm					■								■		■	■	■	■			
75 mm										■										■	■
80 mm															■						
Fittings																					
Schüco AvanTec concealed	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Schüco TipTronic concealed				■			■	■				■	■			■		■	■	■	■
Design options																					
SL (Softline)			■			■		■		■					■						
RL (Residential Line)		■			■					■					■						
BS (Block System)							■					■				■					■
ST (Steel Contour)																	■				
WF (Window Façade)																			■		
Dual colour	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Areas of use																					
Compatible door system	■			■					■	■			■	■							
Façade insert unit	■		■	■		■	■	■	■		■	■	■		■	■				■	■
Window façade																		■			
Opening types																					
Inward opening																					
Side-hung (SH), turn/tilt (TT), bottom hung (BH)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Tilt-before turn (TbT)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Double vent window	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Crank operated turn/tilt														■							
Tilt/slide	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bottom-hung toplight	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Flush fitted as SH, TT, BH									■			■			■		■		■		
Outward opening																					
Side-hung, top-hung window	■			■					■												
Horizontal/vertical pivot window	■			■					■			■									
Top swing window	■			■																	
Security																					
Burglary resistance to BS V EN 1627																					
Schüco AvanTec WK 1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Schüco AvanTec WK 2				■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■
Schüco AvanTec WK 3									■	■	■	■	■	■	■	■	■	■	■	■	■
Schüco TipTronic WK 1									■			■	■			■		■	■	■	■
Schüco TipTronic WK 2									■			■	■			■		■	■	■	■
Monitoring of opening and closing display	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Automation																					
Schüco TipTronic turn/tilt fitting				■			■	■			■	■			■		■	■	■	■	■
Schüco TipTronic toplight drive				■			■	■			■	■			■		■	■	■	■	■
Group control				■			■	■			■	■			■		■	■	■	■	■
Bus automation				■			■	■			■	■			■		■	■	■	■	■
Automatic night-time cooling				■			■	■			■	■			■		■	■	■	■	■
Automatic ventilation				■			■	■			■	■			■		■	■	■	■	■
Remote control				■			■	■			■	■			■		■	■	■	■	■



Schüco – your partner for windows and solar products

As leading innovator in system-based construction, Schüco supplies components for the whole building envelope, including specialised software solutions for design, construction, calculation and fabrication.

- Aluminium systems
- Steel systems
- Solar products
- Schüco Design

Schüco International

Whitehall Avenue Kingston
Milton Keynes MK10 0AL
Telephone: 01908 282111 Fax: 01908 282124
www.schueco.co.uk



All aluminium, steel and solar products developed by Schüco are characterised by their high level of structural reliability and superior quality. The pursuit of perfection, teamwork and a dynamic organisation ensure success. The corporate partnership with Team McLaren Mercedes is a commitment that symbolises the leading position of Schüco International.