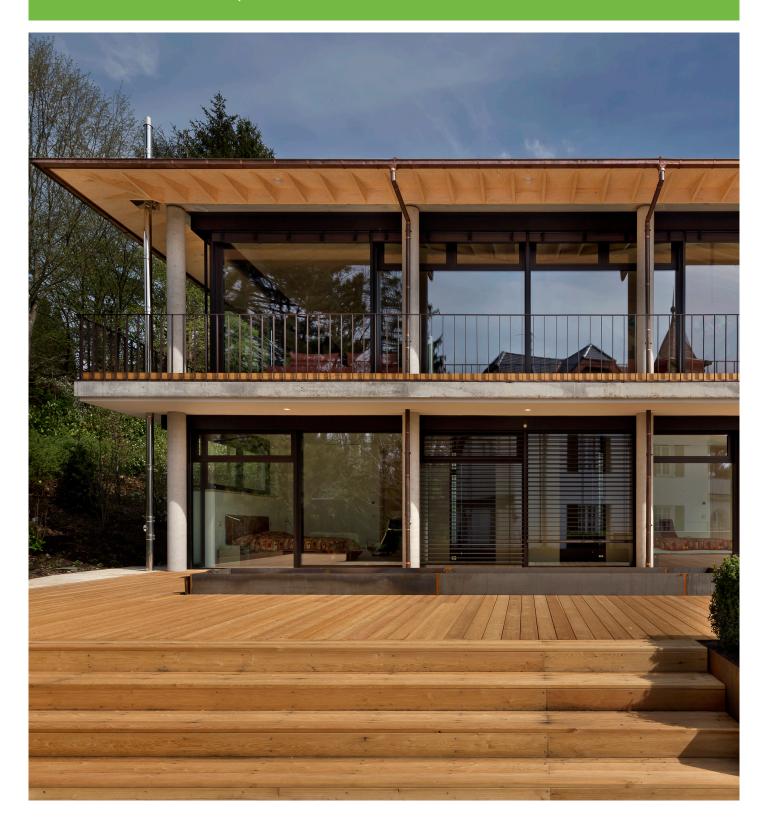




# Schüco AWS 90

Aluminium window system



# Schüco AWS 90



Schüco window AWS 90.SI+ Green



Schüco window AWS 90 BS.SI+



Schüco window AWS 90.SI+

The aluminium window system with thermal insulation to passive house standard

To complement the increasingly popular 90 mm basic depth, Schüco is adding these new window series with AWS 90.SI+ Green and 90 BS.SI+ versions.

The new Schüco AWS 90 BS.SI+ aluminium block window system features ground-breaking thermal insulation and allows diverse architectural designs of the highest quality to be created with a basic depth of just 90mm. With a Uf value of 1.2 W/(m2K) and a face width of 95mm, it achieves passive house standard. Narrow face widths also allow flush sightlines to be created with no visible window vents.

Furthermore, with the new AWS 90.SI+ Green generation of widows, Schüco is responding to the stricter guidelines and higher potential CO2 savings for the building sector. Ground-breaking ecological materials are being used for this, such as castor oil in the polyamide insulating bars. This has allowed Schüco to become the first provider to offer an approved aluminium window suitable for series production, which contains significant proportions of renewable materials in the plastics, and to substitute raw fossil materials.

AWS 90.SI+ Standard

door series.

### **Product benefits** Schüco AWS 90.SI+ Schüco AWS 90 BS.SI+ AWS 90.SI+ Green • Highest levels of thermal insulation with • The perfect combination of design and · Highly thermally insulated aluminium a 90mm basic depth and Uf values from energy efficiency with Uf values from 0.8 W/ window to passive house standard with a 0.71 W/(m2K) (m2K) Uw value of 0.8 W/(m2K) with triple glazing Average Uf value of 1.0 W/(m2K) with a Average Uf value of 1.2 W/(m2K) with a face and a face width of 117mm face width of 117 mm and a Uw value of width of 95mm and a Uw value of 0.84 W/ Insulating bars, foams and glazing gaskets 0.8 W/(m2K) with a with a Ug value of 0.6 (m2K) with plastic spacers and a Ug value of W/(m2K) and plastic spacers 0.6 W/(m2K) proportions of renewable raw materials Co-extruded centre gasket with fins • Face widths from 77mm can be constructed • Tested profile and insulating bar system as a • Optimised insulation zone with foam-• Glass thicknesses of up to 58mm can be used series product filled insulating bars Certification for bio-based products through TÜV quality seal DIN CERTCO Colour of bar material: slate grey **Fabrication benefits** • Compatible with the Schüco ADS 90.SI Use of identical parts from Schüco AWS • Comprehensive profile range identical to

90.SI+ windows and Schüco AWS 112 IC

• U<sub>r</sub> values achievable without bonding the

windows

panes

Technical data	AWS 90.SI+	AWS 90 BS.SI+	AWS 90.SI⁺ Green
U <sub>r</sub> values in W/(m²K) from	0.71	0.8	0.79
Basic depths in mm	90	90	90
Compatible with Schüco TipTronic	•	•	
Sound insulation/standard DIN EN 20140 up to $\rm R_{_{\rm W}}$ value in dB	47	47	47
Burglar resistance/standard DIN EN 1627 (Class)	RC3 (WK3)	RC3 (WK3)	RC3 (WK3)
Watertightness/standard DIN EN 12208 (Class)	9a	9a	9a
Air permeability, DIN 12207 (Class)	4	4	4
Wind load resistance, DIN 12210 (Class)	C5/B5	C5/B5	C5/B5

# The "Schüco" logo and other logos are protected in Germany and various international markets. We will provide detailed information upon request.

# Schüco AWS 90



With the Schüco AWS 90.SI+ Green window, Schüco is the first provider to successfully manufacture an approved aluminium window system which is suitable for series production and which contains significant proportions of renewable raw materials in the plastics. This means that raw fossil materials are partially replaced with tested, bio-based materials.

### 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









# Overview

	Schüco AWS 90 BS.SI+	Schüco AWS 90.SI+	Schüco AWS 75.SI	Schüco AWS 75 BS.SI	Schüco AWS 75 BS.HI	Schüco AWS 75 WF.SI	Schüco AWS 65	Schüco AWS 65 BS	Schüco AWS 65 WF	Schüco AWS 60	Schüco AWS 60.HI	Schüco AWS 60 BS
	Series											
Energy												
Thermally insulated												
High Thermally insulated												
Suitable for passive houses												
U <sub>r</sub> -values in W/(m²K) from	0.71	0.8	0.92	1.3	1.3	1.4	1.9	2.0	2.6	1.9	1.7	2.1
Weighted sound insulation index $\boldsymbol{R}_{w}$ in dB	47	49	48	49	45	49	47	44	44	45	45	43
Design												
Basic depth in mm	90	90	75	75	75	75	65	65	65	60	60	60
Fittings												
Schüco AvanTec, concealed												
Schüco TipTronic, concealed												
Design Options				,								
RL (Residential Line)												
SL (Soft Line)												
MC (Multi Contour)												
BS (Block system)												
WF (Window Facade)												
Areas of Use												
Facade insert unit			•									
Window facade												
Floating window												
Compatible Schüco ADS door system												

# Overview

	Schüco AWS 90 BS.SI+	Schüco AWS 90.SI+	Schüco AWS 75.SI	Schüco AWS 75 BS.SI	Schüco AWS 75 BS.HI	Schüco AWS 75 WF.SI	Schüco AWS 65	Schüco AWS 65 BS	Schüco AWS 65 WF	Schüco AWS 60	Schüco AWS 60.HI	Schüco AWS 60 BS
	Series											
Schüco Avan Tec												
Side -hung (SH), turn/tilt (TT), bottom-hung (BH), tilt-before-turn (TbT)												
Double-vent												
Crank-operated turn/tilt vent												
Tilt/slide vent												
Bottom-hung toplight												
Outward-opening												
Side-hung, top-hung vent												
Horizontal and vertical pivot vent												
Security												
Burglar resistance in accordance with DIN EN 1627												
Schüco AvanTec WK1												
Schüco AvanTec RC2 (WK2)												
Schüco AvanTec RC3 (WK3)												
Schüco TipTronic WK1												
Schüco TipTronic RC2 WK2												
Monitoring of opening and closing, display												
Automation	,											
Schüco TipTronic												
Turn / tilt fitting	•											
Toplight			-									
Outward opening			-									
Group control, bus automation			-									
Automatic night-time cooling, automatic ventilation												





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