

WICLINE 75 MAX – Design, transparency and sustainability at the highest level

When planning windows and façades, architects are increasingly facing a broad range of requirements. Three of these challenges can be met with a single system, the new WICLINE 75 MAX window system – WICONA's innovative leading-edge solution for harmonious design, more transparency and true sustainability.

The new WICLINE 75 MAX aluminium window is based on the technology of the WICLINE 75 window series: developed in Germany, tried and tested over years and used all over the world in numerous buildings. "MAX" stands for top innovation and the triple performance spectrum of a harmonious appearance, greater light and comfort, and a system containing a high proportion of recycled materials.



Harmonious Design

What is a fixed light, what is an opening light? If you look at a building façade fitted with a WICLINE 75 MAX window system, it is impossible to answer this question – there is no visual difference between the two by looking at the new concealed sash from outside.

Further information:

Hydro Building Systems Germany GmbH • WICONA • Einsteinstrasse 61 • D-89077 Ulm • www.wicona.de

Press: Ina Groß, Communication Manager • T: +49 (0) 7 31 - 39 84-184 • E: ina.gross@hydro.com

Press office: Egen-Gödde • Tauberweg 8 • D-86916 Kaufering • T: +49 (0) 81 91 - 6 69 61 • E: prleg@t-online.de



Concealed hinges and fittings also create clear and uninterrupted lines from inside. Looking at the window straight on, there is not even a window handle visible: the new, innovative handle is completely integrated into the window sash, adding to the harmonious appearance. This effect is further heightened by the option of coating the window handle in exactly the same colour as the frame. The WICONA colour scheme creates the basis for exclusive shades for an individual appearance.

Awarded with coveted design prizes

WICONA's innovative design idea was worthy of an award from the international expert jury at the iF DESIGN AWARD 2018 as well as the Red Dot Design Award 2018.

The iF DESIGN AWARD 2018 was received in the "Product" discipline, in the "Building Technology" category. This award is presented once a year by the oldest independent design institution in the world, the iF International Forum Design GmbH in Hannover, Germany.

The concealed window handle also won the Red Dot Award: Product Design 2018. The expert panel awards the internationally recognised quality symbol only to products which demonstrate convincing design quality. The Red Dot Award: Product Design therefore represents one of the most noted evaluation procedures for creative design and innovation.



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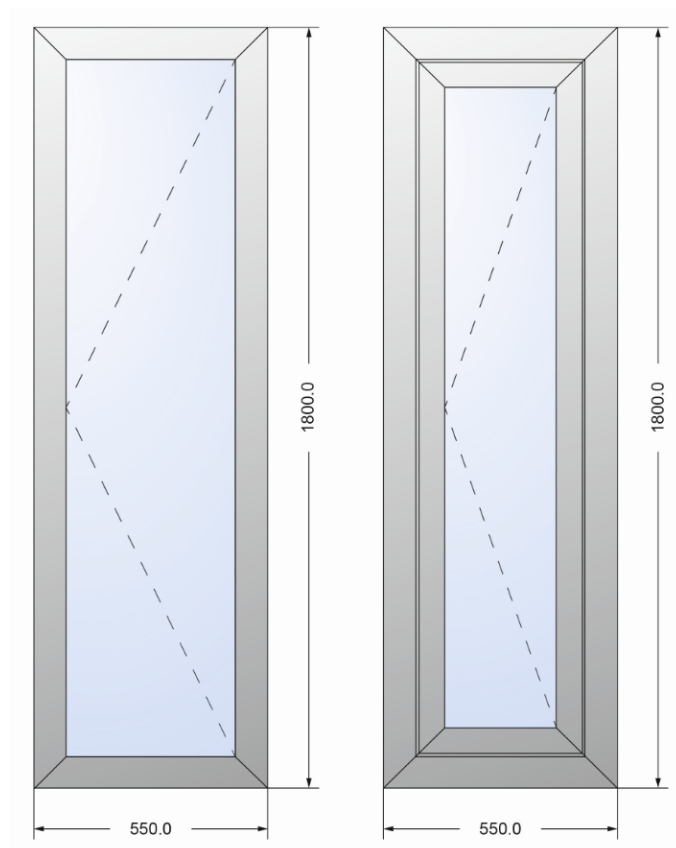
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Maximum Transparency

Slim and narrow façade sightlines meet the requirements of many investors and clients for refined urban architecture and sophisticated building projects. The uniform sightlines of the WICLINE 75 MAX aluminium profiles mean that this requirement can be met perfectly, so that even large glazed surfaces can be created, allowing the building to speak for itself. Users inside the building benefit from the significantly higher proportion of glass per window with a high incidence of daylight and natural illumination in the rooms.

The gain in transparent area is demonstrated particularly in the high narrow windows which are the latest trend: With the specified U_w value of $1.0 \text{ W/m}^2\text{K}$ and identical glass, a WICLINE 75 MAX unit with dimensions $0.55 \text{ m} \times 1.8 \text{ m}$ has an up to 56% higher proportion of transparent area compared to a traditional window series with very good U_f value.



True Sustainability

WICLINE 75 MAX lives up to WICONA's long-held ideals of sustainability particularly well. The WICLINE 75 MAX window profile is manufactured mainly from recycled aluminium – certified by the DNV GL Business Assurance (Norway) AS. Even the glazing beads of the sashes are made of recycled material. WICONA uses the tried and tested thermal insulation bars made of recycled polyamide for thermal barrier, and continues to use it for WICLINE 75 MAX.

Thanks to the high proportion of recycled material, the WICLINE 75 MAX features a significantly reduced environmental impact.

High energy efficiency is one of the most important criteria for true sustainability. With a U_w value of up to $0.81 \text{ W/(m}^2\text{K)}$ (for a standard window size of $1230 \text{ mm} \times 1480 \text{ mm}$ and $U_g = 0.5 \text{ W/(m}^2\text{K)}$), WICLINE 75 MAX sets the highest standards, contributing to energy saving and climate protection.

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C2C Certification

Like other WICONA systems, WICLINE 75 MAX has been awarded the Cradle to Cradle (C2C) Bronze certification. The C2C certificate is an addition and alternative to the well-known building certificates (DGNB, LEED, BREEAM, etc.). The criteria used here apply directly to the product and not to the entire building. The responsibility of the product manufacturer, including the entire prefabrication and supply chain, comes into focus. From the planning perspective, there is a clear advantage that WICLINE 75 MAX automatically meets at least the Bronze level of the C2C standard, a benefit which lets WICONA partners stand out from the competition.

**“Building the City of the Future Together”**

The new WICLINE 75 MAX window system fits in with this WICONA concept. It brings together important future trends and technologies for urban living and working into a single system. A bright working atmosphere and a feeling of wellbeing in living spaces; intelligent façade design as an expression of modern city architecture; sustainability in the key sense of tried and tested recycling loops; and the highest levels of energy efficiency – all these things are hallmarks of this City of the Future.

**Technical performance:****Further information:**

Hydro Building Systems Germany GmbH • WICONA • Einsteinstrasse 61 • D-89077 I
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Profile technology

Frame depth: 75 mm

Frame rebate height: 44 mm

Overall construction depth of profile system: 95mm

Profile sightlines

Frame profiles: 74 mm

Transom profiles: 79 mm

Sash profiles, concealed: 57 mm (internal sightline)

Types of opening

Side-hung window, turn-tilt window, bottom-hung window, tilt-first window

Air permeability: Class 4

Watertightness: E750

Resistance to wind load: Class C5 / B5

Acoustic performance: R_w up to 48 dB

Operating forces: Class 1

Mechanical strength: Class 4

Repeated opening/closing: Class 2 (10,000 cycles)

Impact resistance: Class 2

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