

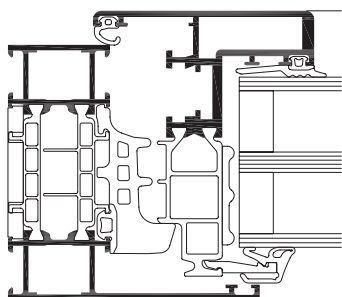
» WICLINE 75 TOP – Outstanding energy efficiency on Passive House level

- The new ETC Intelligence thermal break zone delivers highly effective energy efficiency on Passive House level
- Thermal performance of the highest standards to achieve U_w -values below $0.80 \text{ W/m}^2\text{K}$
- Achieving the balance between enhanced energy performance and cost efficiency
- Fully compatible with the WICLINE 75 evo suite – tooling, accessories and hardware

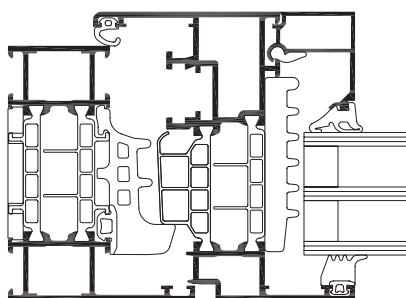


» Achieve passive house standards using 75 mm profiles

The highest energy efficiency standards are a key feature of the latest WICONA window series. WICLINE 75 TOP's highly innovative ETC Intelligence® thermal break zone ensures highly effective thermal performance equivalent to stringent passive house standards



WICLINE 75 TOP concealed sash



WICLINE 75 TOP surface-mounted sash

System checks

Air permeability:	Grade 4
Water resistance:	E900
Wind resistance:	Grade C5 / B5
Acoustic protection:	$R_w (C; C_{tr}) = 47 (-1; -4)$ dB
Impact resistance:	Grade 1
Load-bearing capacity for safety devices:	Fulfilled
Mechanical strength	Grade 4
Continuous operation:	Grade 3 (20,000 cycles)
Corrosion resistance of the hardware:	Grade 5
Burglar resistance:	RC1N, RC2N, RC2, RC3
Bullet resistance:	FB4 S, FB4 NS (depending on profile combinations)
Quality management:	Certified in accordance with DIN EN ISO 9001:2008

WICLINE 75 TOP with ETC Intelligence®

WICONA's WICLINE 75 TOP is a window system which is equivalent to passive house standards in energy performance. It combines ease of fabrication and the unrivalled quality of conventional aluminium window systems with a 75 mm frame depth and the highest levels thermal performance from one single system.

T = High levels of thermal insulation

O = Optimum performance and fabrication

P = Passive house standards

The new ETC Intelligence® thermal break zone ensures U_f values for the glazed unit/frame combination can be as low as 1.0 W/m²K as a result of an intelligent combination of materials and design – with no additional inserts for insulation

ETC Intelligence® means:

- Low Emission foil to reflect heat emissions effectively
- Low Transmission insulation webbing material to keep heat transfer to a minimum
- Low Convection insulation profile fins to minimise heat loss through convection in the thermal break zone

Other key features:

- U_w values in line with passive house standards
- U_f value improvements of up to 0.3 W/m²K for visible sash/frame combinations
- U_f value improvements of up to 0.6 W/m²K for concealed sash/frame combinations
- Concealed sashes are sufficiently robust to accommodate glazed units up to 50 mm
- Insertion frame with 44 mm insertion strength
- Improved insulation support for structural connections

Thermal performance:

- $U_f = 0.79$ to 1.3 W/(m²K) for fixed glazing with outer sightline from 48 to 155 mm
- $U_f = 1.0$ to 1.2 W/(m²K) for sash/frame combination with outer sightline from 74 to 142 mm
- U_w value below 0.80 W/(m²K)

WICSTAR DPS system hardware:

- High quality concealed fixings with a direct positioning system (DPS). Components can be installed in any order. Sash weights for concealed hinges of up to 160 kg and for surface-mounted hinges of up to 200 kg

System combinations:

- WICLINE 75 TOP window is fully compatible with WICLINE 75 windows, WICSTYLE 75 doors and the current WICTEC façades using insertion frames

