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DECOHYBRID 80

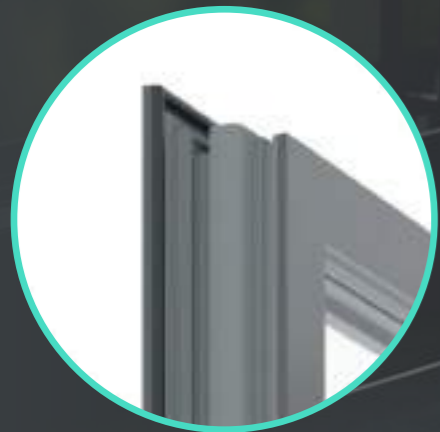
New generation of hybrid windows

ΝΕΑ ΓΕΝΙΑΡΙΑ ΟΙ ΥΛΟΓΙΑ ΜΙΑΣΟΜΣ

INNOVATIVE HYBRID TECHNOLOGY

80 HYBRID redefines the appearance of modern windows and doors through a minimalist design inspired by the elegance of aluminium systems. Clean lines, slim profiles, and flawless finishes create a contemporary look that integrates perfectly into premium residential and commercial projects. From the outside, the system preserves the authentic appearance of aluminium joinery, making it ideal for modern architecture featuring large glazed surfaces and simple forms.

The system combines external aluminium profiles with a high-performance inner core, achieving the ideal balance between design, strength, and energy efficiency. The hybrid construction reduces the weight of the structures, eliminates the need for steel reinforcements, and optimizes the manufacturing process without compromising durability or stability.





80 HYBRID

Hybrid Window and Door System

Energy Performance	Uw from 0.73 W/m ² K, suitable for energy-efficient buildings. Excellent thermal and acoustic insulation thanks to the hybrid aluminium-PVC structure.
Security	High resistance to water and wind: up to E1950 and Class C5/B5.
Durability	Aluminium profiles combined with an insulated PVC core eliminate the need for steel reinforcements, reducing weight without compromising strength.
Glazing	Supports glazing units from 24-58 mm, compatible with high-performance double or triple glazing. Ensures a high level of acoustic insulation.
Aesthetics	Elegant all-aluminium appearance, available in classic or fully flush designs. Customizable in any RAL colour.



80 HYBRID

Hybrid Window and Door System



Modern Design and Premium Appearance

The 80 HYBRID system combines the elegance of aluminium with the performance of PVC, delivering the appearance of a modern aluminium window enhanced by clean lines and premium finishes. The external aluminium profiles can be customized in RAL colours, textures, and wood-effect finishes, while maintaining a contemporary, durable design perfectly suited to modern architecture.



Fast and Efficient Manufacturing Process

The innovative 80 HYBRID technology reduces production time by at least 50%. The profiles are supplied with factory-fitted gaskets, while corner welding replaces traditional crimping. Compatibility with PVC window hardware enables production automation, improving efficiency while reducing costs and manufacturing time.



Energy Efficiency and Superior Comfort

Thanks to its innovative plastic core and advanced hybrid technology, the 80 HYBRID system achieves outstanding thermal and acoustic insulation performance. With a Uw value from 0.73 W/m²K, the solution is suitable even for passive buildings, providing a high level of indoor comfort, reduced energy losses, and effective protection against external noise.



Durability, Large Dimensions and Sustainability

The hybrid construction, free of steel reinforcements, reduces the weight of windows and doors while maintaining rigidity and structural stability. The 80 HYBRID system allows the creation of large glazed areas, with sashes up to 2700 mm high. In addition, the finished windows are 100% recyclable, supporting sustainable and energy-efficient construction.

SHADES AND TEXTURES FOR A CONTEMPORARY DESIGN



The extensive RAL colour palette, available in matte, textured, and metallic finishes, together with premium wood-effect decors and anodized surfaces, offers complete freedom in customizing windows and doors. Whether you prefer an elegant industrial style or a modern minimalist design, every detail can be tailored to your architectural vision.

The sublimation technology applied to the aluminium profiles faithfully reproduces the texture and natural look of wood, combining refined aesthetics with the durability of modern materials. The system also allows dual-colour profiles, with different shades on the interior and exterior, ensuring perfect harmony with both interior design and façade appearance.

AS 80 HYBRID transforms windows and doors into a true design feature, where technical performance meets contemporary elegance, giving buildings a distinctive and memorable character.



TECHNICAL FEATURES

Wind load resistance:
Class B5 | C5

Air permeability:
Class 4

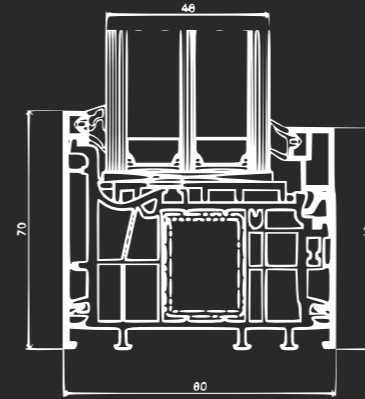
Water tightness:
from E900 to E1950 (up to 2600mm
in bonded-glass version)

Max door sash width: 1200mm (up to
1300 mm in bonded-glass version)

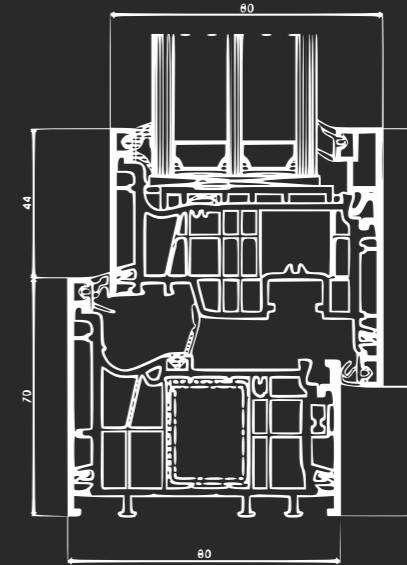


Profile depth	80 mm 92.5 mm
Max sash weight	130 kg
Max window sash height	2500 mm (2700 mm in bonded-glass version)
Max window sash width	1500 mm (1600 mm in bonded-glass version)
Glazing thickness	24–58 mm
Max door leaf weight	130 kg
Max door leaf height	2500 mm (2600 mm in bonded-glass version)
Max door leaf width	1200 mm (1300 mm in bonded-glass version)

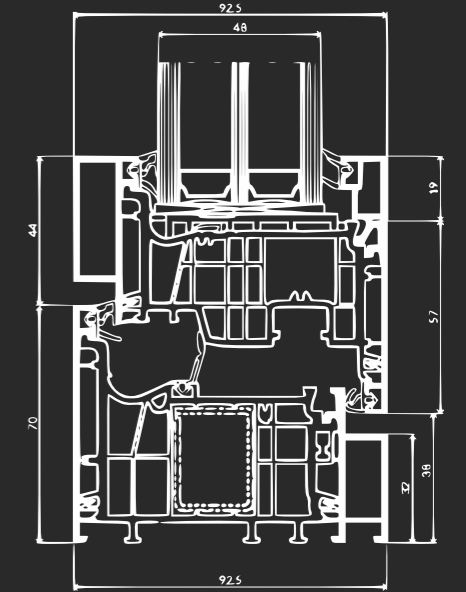
Cross-Section
of a Fixed Window



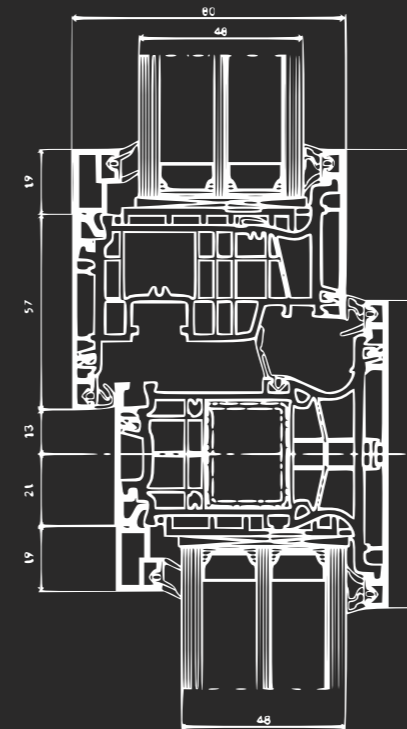
Cross-Section
of an Opening Window



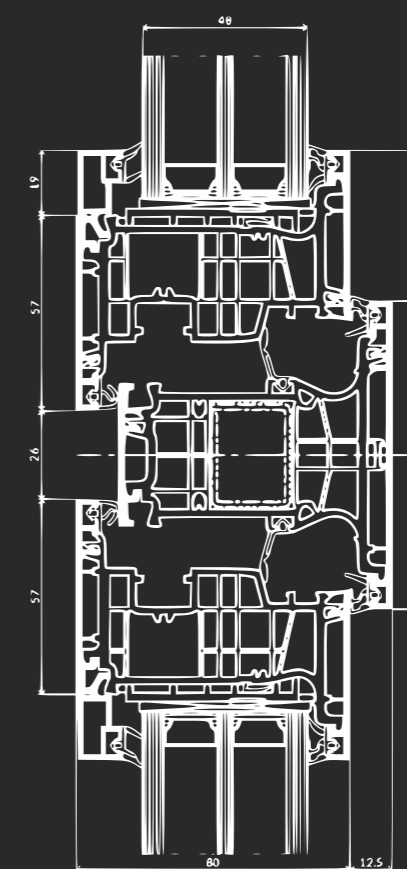
Cross-Section of a
Flush Opening Window



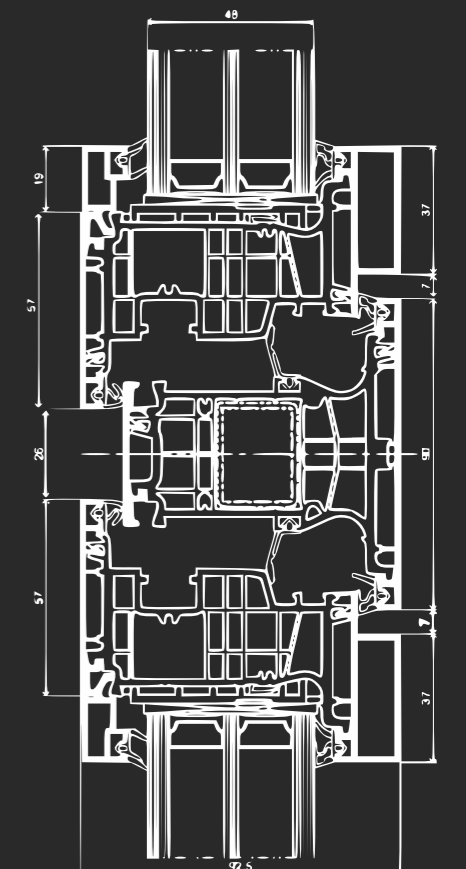
Cross-Section of a
Tilt-and-Turn Window
with Fixed Panel



Cross-Section
of a Mullion



Cross-Section
of a Mullion,
Flush Window



* Value determined for a reference window sized 1230 x 1480 mm (W x H), fitted with a glazing unit with $U_g = 0.5$ W/m^2K and Swisspacer Ultimate spacer.



ENERGY EFFICIENCY

The system enables modern architectural solutions aligned with sustainable building principles. The integration of a plastic core and advanced technical design ensures high thermal performance, suitable for passive-house windows (U_w from 0.73 W/m^2K).

The high energy efficiency of hybrid windows and doors helps reduce heating and cooling costs.



PLASTIC CORE

The system's aluminium profiles are complemented by an innovative black plastic core, designed to replicate the appearance of the thermal spacer used in traditional aluminium windows. Its glossy black finish fits perfectly with contemporary architectural trends.

Its robust construction, with thick and durable walls, allows the use of mounting anchors.



SUSTAINABLE PRODUCTION

The system core has been designed to optimize resource consumption. Therefore, 60–80% recycled materials are used in the manufacturing process.

The AS 80 HYBRID system meets the most demanding European environmental standards.



Residential Homes



Office Spaces



Commercial Buildings



Hotels and Resorts

80 HYBRID

Hybrid Window and Door System



Lightweight structure, without steel reinforcements



Lower costs thanks to high energy efficiency



Wide range of colours and decorative finishes



100% recyclable and sustainable

