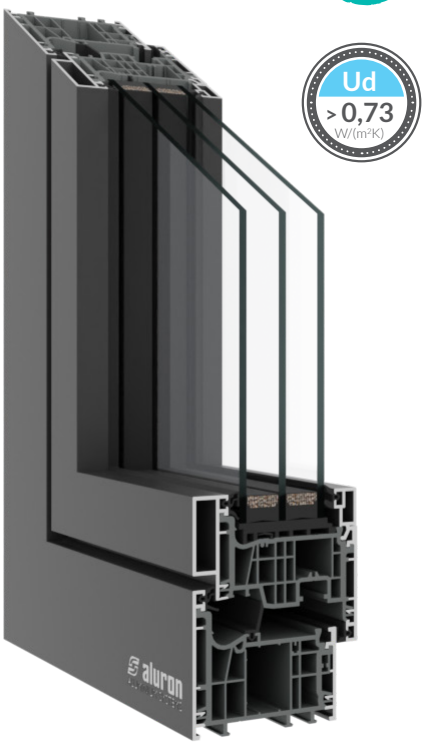
Hybrid window and door system
ASH 80 HYBRID

The use of a plastic core and the well-thought-out design of the ASH 80 HYBRID system provide investors with energy efficiency at the level of passive windows (Uw from 0.73 W/m²K).

External aluminum profiles are connected to an internal two-component core made of PVC. An advanced isomization process connects aluminum half-shells with a core with high insulating properties, guaranteeing the quality, durability, and statics of the finished profiles. The use of aluminum sections has made it possible to remove the steel reinforcements typical of PVC windows from the system's structure. The ASH 80 HYBRID system has been adapted to work with fittings typical for plastic joinery, and thanks to the PVC fitting rebate, automatic fittings can be used. The entire production process is further accelerated by aluminum profiles supplied by Aluron with factory-installed gaskets and the replacement of corner crimping with a welding process.



SELECTED PARAMETERS AND CHARACTERISTICS OF THE SYSTEM

from 0.73 W/m²K	class 4	from E900 to E1950	B5, C5	130 kg	24-58 mm	80 mm, 92,5 mm
Thermal insulation of window structures Uw	Air permeability of walls with and without windows (PN-EN 12152)	Water tightness	Wind load resistance	Max. weight of the sash	Glazing range	Depth of installation

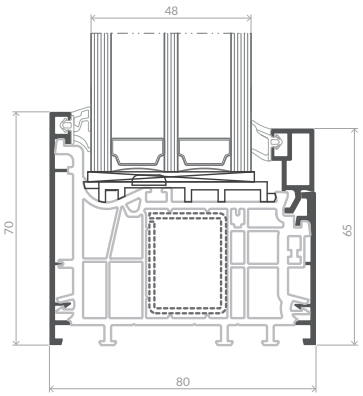
DESIGN & FUNCTIONALITY

- Production time reduced by at least 50%.
- Solution compatible with Aluron aluminum HST, door, and facade systems.
- Lower weight of finished structures – no steel reinforcements inside the structure.
- Possibility of creating windows and doors with maximum dimensions.
- The system is available in a classic version and a version that is completely flush with the aesthetics of a typical aluminum window.
- Visual effect of a typical aluminum window.
- Finished windows are 100% recyclable.
- Shorter manufacturing time thanks to profiles supplied with factory-installed gaskets.
- Possibility of using classic perimeter fittings and concealed hinges.
- Perfect 45-degree corner joints using standard PVC welding technology.
- Three-component seals that provide exceptional protection against wind, rain, and noise. Designs available in two- or three-seal variants.

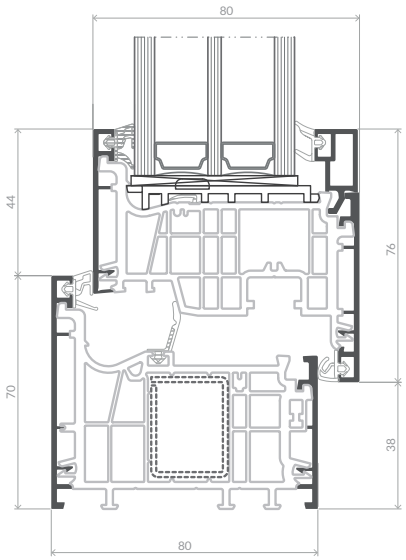
SYSTEM CHARACTERISTICS

2500 mm	2700 mm	1500 mm	1600 mm	2500 mm	2600 mm	1200 mm	1300 mm
Max. window sash height	Max. window sash height for glued glass	Max. window sash width	Max. window sash width for glued glass	Max. door leaf height	Max. door leaf height for glued glass	Max. width of door leaf	Max. door leaf width for glued glass

Cross-section through a fixed window



Cross-section through an opening window



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