



window system

Genesis 90

- three-chamber aluminium system used to construct windows with increased thermal insulation performance, meeting the requirements of the Passive House Certificate for structures with the thermal insulation performance of $U_w < 0.8 \text{ W/m}^2\text{K}$
- the system is designed to meet the highest thermal requirements for display windows and windows in Poland, Europe and worldwide; it meets all requirements for components used in passive construction; the Genesis 90 system is certified by the Passive House Institute in Darmstadt (PHI)
- available 3 thermal options:
 - standard (no insulation) – “i” option for insulation around the glass pane – “i+” option for insulation inside the profiles and around the glass pane
- the solution uses a 55 mm high chamber thermal break made of a material with increased thermal insulation performance
- the central gasket is available in 2 options: standard and equipped with a thermal insert (made of heat-resistant XPET material)
- available narrow profiles with 15 mm high glazing beads
- maximum height of window sashes is 2,6 m, with the maximum mass of the sashes of 180 kg
- available different types of window profiles integrated with window sills
- possible to use concealed drainage for frames, sashes and batten plates
- wide range of different types of extensions; available reinforcements that are bolted to or integrated with profiles, expansion joint profiles
- possible to use “Euro-groove” hardware, with a hinged part visible or concealed, compatible with hardware available in stock and from other manufacturers
- available profiles with a PVC hardware groove (9 mm axis and 10 mm axis, for hardware available on the market)
- minimised number of accessories during prefabrication; possibility of cramping or screwing corner pieces; available presses to facilitate /accelerate production
- possible to use all angular solutions: available variable-angle, diagonal profiles, all-glass corner pieces, etc.
- compatible with sun protection systems from the Aliplast offer: roller shutters, blinds (SunFas), zip screen
- the system offers solutions dedicated to the specific needs of European markets (e.g. Dutch-type frames, frames with concealed drainage, renovation French-type solutions, narrow movable post)
- possible to install the Flyscreen and Insect System (mosquito net systems)
- wide range of colours – RAL palette (Qualicoat 1518), textured colours, Aliplast Wood Colour Effect – wood-like colours, Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour



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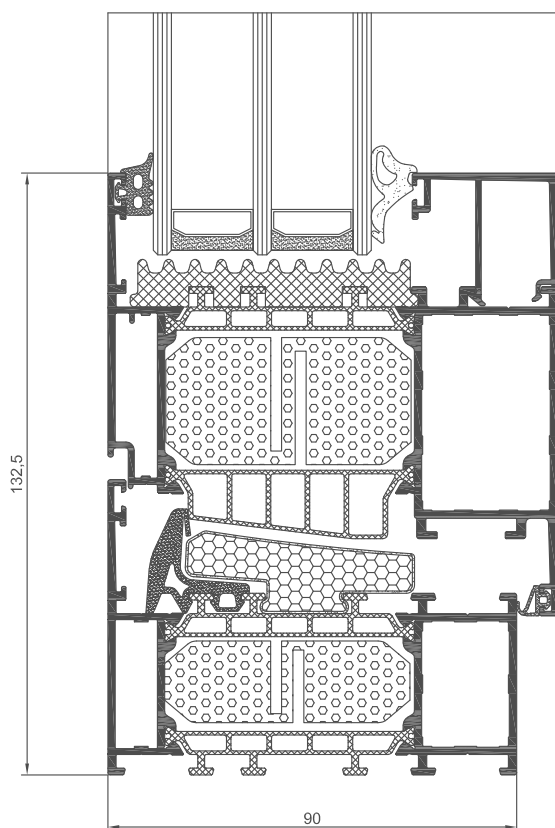
technical specification

system	material	depth of frame	depth of sash	glazing range	type of windows
GP 90	aluminium / polyamide	90 mm	99 mm	fix 16 mm to 74 mm, window 20 mm to 83 mm	FIX, R, U, RU

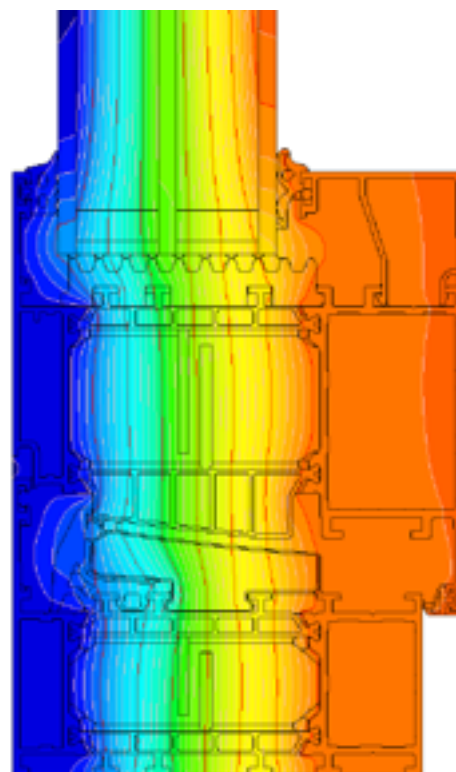
performance

system	thermal insulation U_f^*	air permeability	windload resistance	watertightness
GP 90	U_f from 0.57 W/m ² K	Class 4; EN 12207	Class C3/B3 (1200 Pa); EN 12210	Class E1200 (1200Pa); EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling



cross-section of the Genesis 90 window (GP011 + GP022)



example isotherm arrangement for the GP90 frame and sash connection (GP011 + GP022)