## **KW90**







- ▶ Modern aluminium system designed for the construction of windows with increased thermal insulation, meets the requirements of the Passive House Institute certificate for structures with thermal insulation Uw<0.8 W/m²K.
- ▶ The system is designed to meet the highest thermal requirements for shop windows and window installations , worldwide. It meets the requirements for components used in passive construction. The **KШ90** system is certified by the Passive House Institute in Darmstadt (PHI).
- \_ There are 3 thermal variants available:
  - standard (no insulation)
  - "i" version, insulation around the glass pane
  - $\bullet$  "i+" version with insulation inside the profiles and around the glass pane
- \_ The solution uses a 55 high chamber-type thermal spacer made of a material with increased thermal insulation performance.
- \_ The central gasket is available in 2 versions: standard and equipped with a thermal insert (made of heat resistant XPET material).
- \_ Available very narrow profiles with 15 mm high glazing beads.
- \_ The system offers a large number of profiles of frames, sashes, posts adapted to static requirements.
- \_ The maximum height of window sashes is 3 m, with the maximum weight of the sashes of 180 kg.
- \_ Available different types of window profiles integrated with window sills, possibility of using concealed drainage for frames, sashes and batten plates.
- \_ Wide range of different types of extensions; available reinforcements that are screwed to or integrated with profiles, expansion joint profiles.
- \_ It is 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 axis 10 mm axis, for hardware available on the market).
- \_ Minimised number of accessories during prefabrication, availability of presses facilitating/accelerating production.
- \_ It is possible to use all angular solutions: available variable-angle, diagonal profiles, all-glass corners, etc.
- \_ The solution is 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 frames, frames with concealed drainage, renovation French solutions, narrow movable post).
- \_ Wide range of colours RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour.

## technical specification

system	material	depth of frame	depth of leaf	glazing range	type of windows
<b>КШ90</b> window	aluminium/polyamid	90 mm	99 mm	fix 16 mm - 74 mm, window 20 mm - 83 mm	FIX, R, U, RU

## performance

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
КШ90	Uf from 0,57 W/m <sup>2</sup> K	Class 4; EN 12207	C3/B3 (1200 Pa); EN 12210	E1200 (1200Pa); EN 12208

<sup>\*</sup> Thermal insulation is dependent on a combination of profiles and thickness of the filling.

Example isotherm distribution for the combination of a frame and a window sash in the system.



