



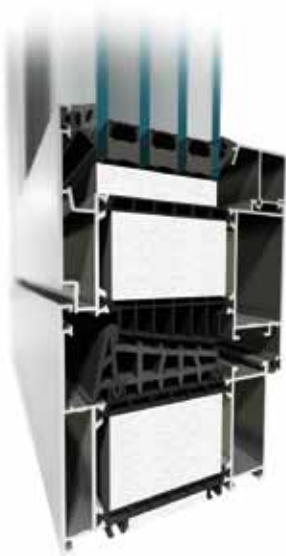
Window System

# MB-104 Passive

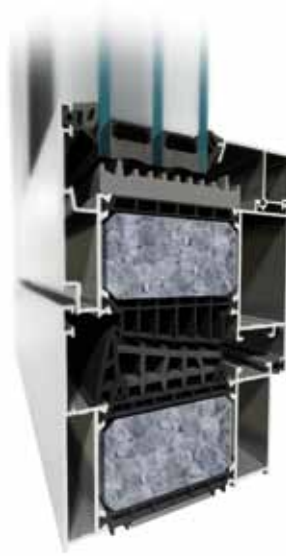
Thanks to its excellent thermal performances, the thermally broken window system **MB-104 Passive** meets all the requirements for the components used in passive buildings. This was confirmed by certificates granted by the Passive House Institute PHI Darmstadt. This system is intended for fabrication of external structure elements such as various types of windows, balcony doors, shop fronts and spatial structures, which are highly resistant and characterized by excellent water & air tightness, and thermal & acoustic insulation performance.

▪  $U_w$  for openable window from  $0,53 \text{ W/(m}^2\text{K)}$

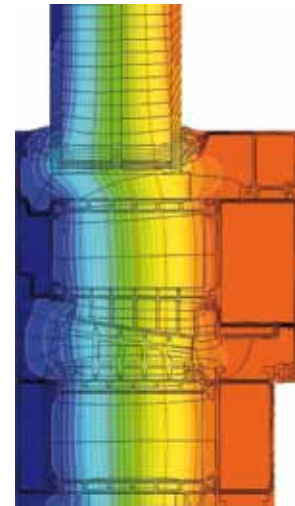




MB-104 Passive Aero



MB-104 Passive SI



Isotherm distribution  
MB-104 Passive Aero

## FUNCTIONALITY AND GOOD APPEARANCE

- windows certified by the Passive House Institute PHI Darmstadt (MB-104 Passive SI & MB-104 Passive Aero)
- excellent weather tightness & thermal insulation performance
- wide range of glazing, up to 81 mm allowing for triple and fourfold glazing units
- "Euro" grooves allow the fitting of most of the available hardware, both for aluminium and PVC windows
- possibility to use typical or concealed hinges

TECHNICAL DATA	WINDOWS MB-104 PASSIVE
Frame depth	95 mm
Vent depth	104 mm
Glazing thickness	frame: 27 - 72 mm vent: 34,5 - 81 mm
MAX DIMENSIONS AND WEIGHT OF THE CONSTRUCTION	
Max vent dimensions (H×W)	H up to 2900 mm W up to 1700 mm
Max vent weight	160 kg

TECHNICAL PARAMETERS	WINDOWS MB-104 PASSIVE
Air tightness	class 4, PN-EN 12207:2001
Water tightness	up to AE 1800, PN-EN 12208:2001
Thermal insulation	$U_w$ from 0,53 W/(m <sup>2</sup> K)*
Wind load resistanc	class C5/B5, PN-EN 12210:2001

\* -  $U_w$  for MB-104 Passive Aero-based openable window casement size 1700 × 2100 mm, with glazing  $U_g=0,4$  W/(m<sup>2</sup>K)