ALUPROF
ALUMINIUM SYSTEMS

LET'S BUILD A BETTER FUTURE

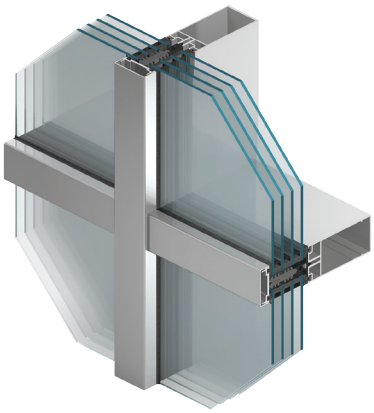
PASSIVHAUS
CERTIFIED SYSTEMS

Passivhaus Trust PATRON

FACADE SYSTEMS

STICK CURTAIN WALL SYSTEMS WITH HIGH THERMAL INSULATION

MB-TT50



Air permeability

Class AE 1350 Pa

EN 12152

Water tightness

Class RE 1800 Pa

EN 12154

Impact resistance

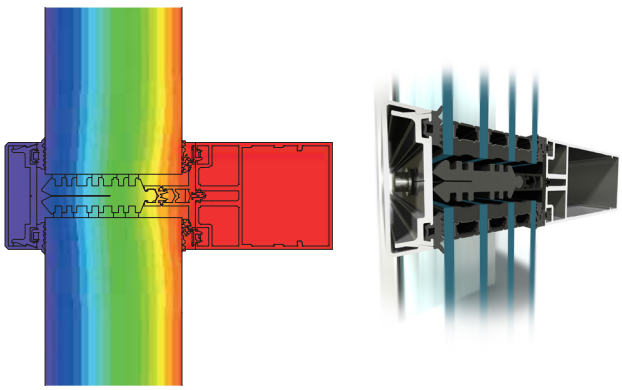
I5/E5

EN 14019

Thermal insulation

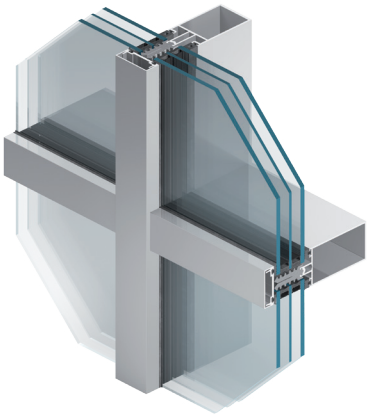
U_{cw} from 0,59 W/(m²K)

- Enhanced thermal insulation – U_{cw} from 0.59 W/(m²K)
- Triple glazed units can be installed up to 64 mm thick
- Wide variety of angular connections to allow greater design flexibility
- High capacity connections that allow the use of large size, heavy glazing units weighing up to 1100 kgs
- Pressure equalized system with concealed drainage
- Selection of windows and doors available including roof vents, concealed vents and parallel windows
- Curtain wall systems certfied to a PhA+ Passivhaus efficiency class



Distribution of isotherms in façade MB-TT50

MB-SR50N HI+



Air permeabilit

AE 1200 Pa

EN 12152

Water tightness

RE 1200 Pa

EN 12154

Impact resistance

I5/E5

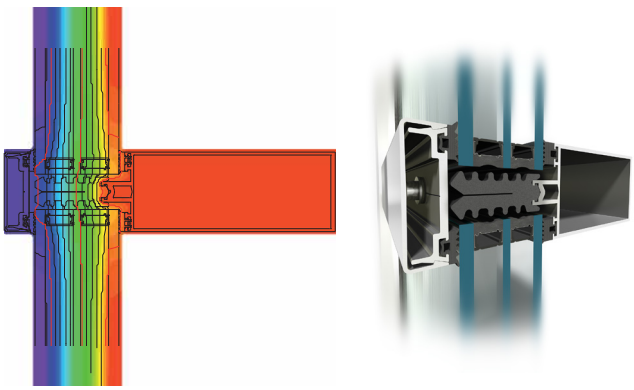
EN 14019

Thermal insulation

U_{cw} from 0,62 W/(m²K)

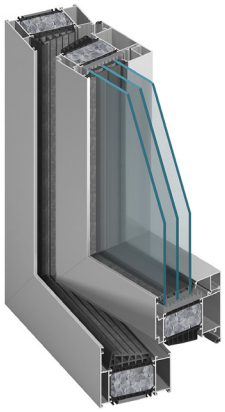
EN 12154

- Extensive connection options which enable the system to achieve raked and faceted designs with minimal sightlines
- External cover caps are available up to 300 mm deep in a variety of designs, providing numerous solutions for the external aesthetics of our curtain wall systems
- Arched and curved sections can be achieved through the bending process provided by Aluprof UK



Distribution of isotherms in façade MB-SR50N HI+

MB-104 PASSIVE SI



CERTIFIED COMPONENT
Passive House Institute

Windload resistance

Class CE3300/BE3300

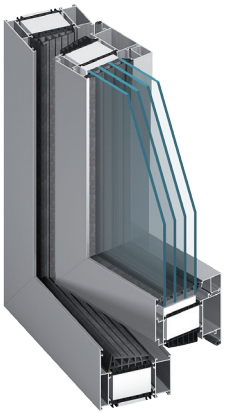
EN 12210

Water tightness
for openable window

Class AE 3600

EN 12208

MB-104 PASSIVE AERO



CERTIFIED COMPONENT
Passive House Institute

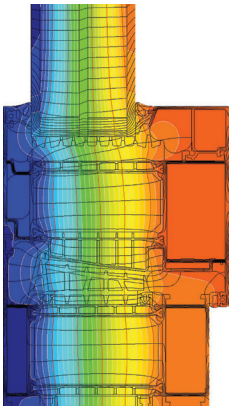
Air permeability
for openable window

Class 4

EN 12207

Thermal insulation

U_w from 0.53 W/(m²K)

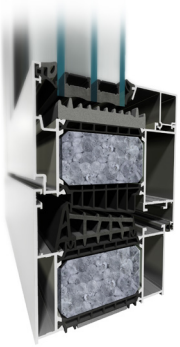


Isothermal lines in MB-104 Passive Aero window

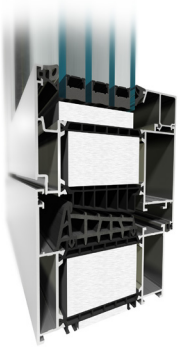
The MB-104 Passive window & door system provides class leading thermal insulation performance and meets all the requirements for certified Passivhaus building components.

WHY MB-104 PASSIVE?

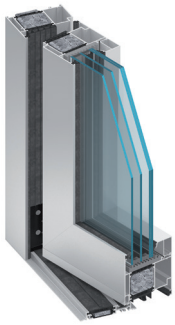
- Passivhaus Institute Darmstadt - certified windows in either the MB-104 Passive SI or MB-104 Passive Aero thermal options
- Excellent thermal insulation performance for openable glazing with window U values from 0.53 W/(m²K) and door U values from 0.53 W/(m²K)
- Improved levels of weather tightness and insulation performance
- Wide range of glazing options up to 81 mm thick
- Exterior doors are available in both glazed and panelled options making it a perfect choice for all building types; from a modern home through to commercial properties and everything in between



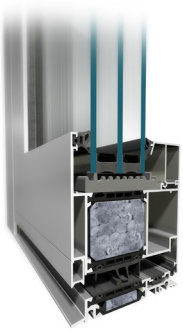
MB-104 Passive SI Window



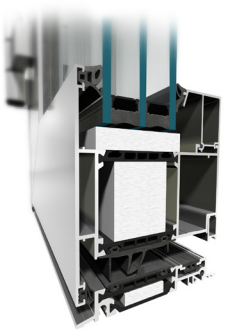
MB-104 Passive Aero Window



MB-104 Passive SI Door

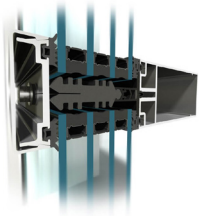


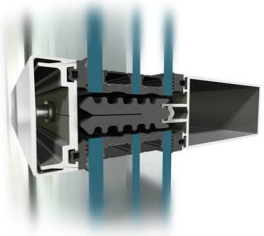
MB-104 Passive SI Door



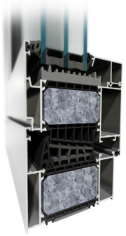
MB-104 Passive Aero Door

TECHNICAL SPECIFICATIONS





	MB-TT50	MB-SR50N HI+
Mullions width	50 mm	50 mm
Mullions depth	65 – 245 mm	50 – 325 mm
Inertia mullions (range Ix)	35.41 – 1639.59 cm⁴	26.04 – 4123.45 cm⁴
Glazing thickness	24-64 mm	24 – 64 mm
Maximum weight of façade pane	600 kg	1,100 kg
Air permeability	Class AE1350, EN12152	Class AE1200, EN12152
Water tightness	Class RE1800, EN12154	Class RE1200, EN12154
Windload resistance	2700 Pa, EN13116	2400 Pa, EN 13116
Thermal insulation	U_{cw} from 0.59 W/(m²K)	U_{cw} from 0.62 W/(m²K)
Impact resistance	Class I5/E5, EN14019	Class I5/E5, EN14019
CWCT tested	Yes	Yes
Acoustic performance R_w (C; Ctr)	46 (-1;-5)	46 (-1;-6)
PassivHaus effiwciency class	phA	phA+



	Windows MB-104 Passive	Doors MB-104 Passive
Depth of frame	95 mm	95 mm
Depth of leaf	104 mm	104 mm
Glazing thickness	frame: 27 – 72 mm / vent: 34.5 – 81 mm	27 – 72 mm
Maximum size of leaf (H×W)	H to 2900 mm W to 1700 mm	H to 3000 mm W to 1400 mm
Maximum weight of leaf	160 kg	200 kg
Air permeability	Class 4, EN 12207:2001	Class 4, EN 12207:2001
Water tightness	Class E3600, EN12208:2001	Class E1200 Pa, EN 12208:2001
Windload resistance	Class CE3300/BE3300, EN12210:2016	Class C4/B5, EN 12210:2001
Thermal insulation	U_w from 0.53 W/(m²K) *	U_D from 0.53 W/(m²K) **
Burglary resistance	Class RC1 to RC3, EN 1627	Class RC1 to RC3, EN 1627
Acoustic performance R_w (C; Ctr)	42 (-1;-5)	–
PassivHaus efficiency class	phB	N/A

* – U_w for MB-104 Passive Aero-based openable window casement size 1700×2100 mm, with glazing Ug=0,4 W/(m²K)

** – U_D for panel door MB-104 Passive Aero casement size 1230×2180 mm

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