



LET'S BUILD A BETTER FUTURE

Window & door system **MB-70**

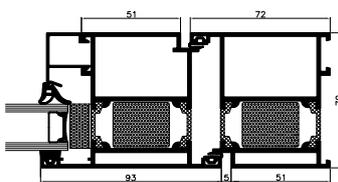
This aluminium system is intended for fabrication of various thermal & sound insulated external structures: windows, doors, entrance enclosures, shop fronts and spatial structures. It features a version with enhanced thermal insulation obtained thanks to special insulating inserts inside the profiles and in the under-the-glass area. MB-70 allows for fabrication of burglar-resistant windows & doors up to class RC4 plus smoke exhaust windows. Various types of windows including “concealed sash-windows” MB-70US / MB-70US HI, MB-70SG plus a version for historic buildings MB-70 Industrial. The system is also a base for MB-70CW / MB-70CW HI-based “cold-warm” curtain wall.



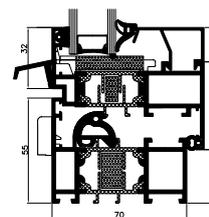
flexibility of design

thermal insulation: U_f from 1.0 W/(m²K)

MB-70 MB-70 HI



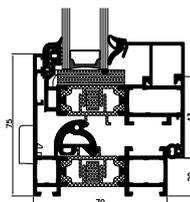
door – cross section MB-70 HI



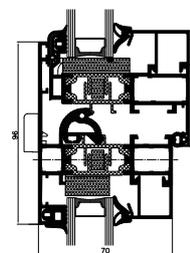
window – cross section MB-70 HI

The basic range of profiles allows the manufacturing of windows that open inwards and outwards. Thanks to its construction, it allows the use of many types of turn, tilt, turn-and-tilt and tilt-and-slide fittings as well as folding constructions. As regards doors, we have at our disposal the conventional single- or double-leaf doors as well as doors with the so-called safe doorstop. The system is also used for making bigger showcase structures using reinforcing profiles when required. It is also the basis for a number of interesting individual solutions.

MB-70US MB-70US HI



opening window – cross section

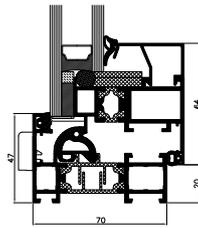


opening window and fixed window – cross section

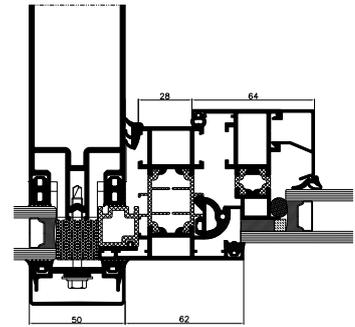
The invisible window sash variety. It enables an effect of indifferent look of series of neighboring combination of fixed and opening windows from the outside of the building. It gives an impression of light and neat look since low width of frames seen from the outside. Available in both regular and HI variety with enhanced thermal insulation.

WINDOWS SCHEMES	SECTION A OR B	Value U_w W/(m ² K)		
		Glass pane with Chromatech Ultra frame		
		$U_g=0.5$	$U_g=0.7$	
	MB-70HI	 K518101X	0.8	1.0
		 K518101X + K518111X	1.0	1.1
		 K518101X + K518112X	1.0	1.1
		 K518102X + K518112X	1.0	1.1

MB-70SG



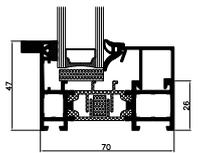
opening window – cross section



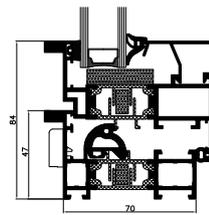
active window
in a curtain wall – cross section

The variety of system that enables to make window with sash invisible from the outer space. It resembles regular concealed sash construction but since its frame features 47 mm width it is therefore narrower than MB-70US and offers slimmer and lighter look.

MB-70 INDUSTRIAL
MB-70 INDUSTRIAL HI



fixed window – cross section



opening window – cross section

Whether for renovating old steel windows or giving a stylish steel look to newbuild, the MB-70 Industrial enables to keep with the original style, providing all the benefits of modern aluminum technology. Combining attractive design options with long term reliability, the system also features enhanced thermal insulation properties to ensure energy conservation.

MB-70
Casement



MB-70RC4



MB-70 Pivot



MB-70CW
MB-70CW H



The MB-70 system can be used for fabrication of the outward openable windows MB-70 Casement / MB-70HI Casement, pivot windows MB-70 Pivot, burglar proof windows including a special version of the MB-70 RC4 in class RC4, and window façade MB -70CW / MB-70CW HI. **For more information, please refer to our publications for architects or contact our technical consultants.**

FEATURES AND AESTHETICS

- variety of functions, tailored to users' needs
- possibility to bend profiles, and to create arch structures
- variety of aesthetic solutions offered by windows with concealed sash, Industrial "steel-like" variant and three types of glazing beads: Standard, Prestige, Style
- outward or inward openable single/double doors including "safe stop" doors
- structures suited to different types of hardware, including concealed hinges in windows and roller hinges in doors
- basis for solutions with enhanced thermal insulation: MB-70HI, MB-70US HI and MB-70CW HI
- possibility of fabricating two-colour constructions: profiles can have different colours on external and internal side

TECHNICAL SPECIFICATION	MB-70 MB-70 HI	MB-70US MB-70US HI	MB-70 INDUSTRIAL MB-70 INDUSTRIAL HI	MB-70SG	MB-70CW MB-70CW HI
Frame depth (door / window)	70 mm / 70 mm	70 mm			
Casement depth (door / window)	70 mm / 79 mm	79 mm			
Glazing rang (fixed window and door / opening window)	15 – 51 mm / 23 – 62 mm	9 – 45 mm / 18 – 54 mm	15 – 51 mm / 23 – 62 mm	18 – 54 mm	9 – 45 mm / 18 – 54 mm
MIN VISIBLE WIDTH T PROFILE					
Frame (door / window)	51 mm / 47 mm	75 mm	47 mm	47 mm	78.5 mm
Casement (door / window)	72 mm / 32 mm	—	32 mm	—	34.6 mm
SIZE LIMITATIONS					
Max. size of window (H×L)	H to 2400 mm L to 1600 mm	H to 2100 mm L to 1400 mm	—	H to 2400 mm L to 2000 mm	—
Max. size of door (H×L)	H to 2400 mm L to 1300 mm	—	—	—	—
Max. weight (door / window)	120 kg / 130 kg	130 kg	—	130 kg	—
TYPES OF CONSTRUCTION					
Solutions	tilt window, turn window, tilt&turn window, doors open in and open out	fixed window, tilt window, turn window, tilt&turn window	fixed window, tilt&turn window	turn window, tilt window, tilt&turn window	fixed window, tilt&turn window

PERFORMANCE	MB-70 MB-70 HI	MB-70US MB-70US HI	MB-70 INDUSTRIAL MB-70 INDUSTRIAL HI	MB-70SG	MB-70CW MB-70CW HI
Air permeability	class 4, EN 1026; EN 12207				
Windload resistance	to class C5, EN 12211; EN 12210			class C5, EN 12211; EN 12210	
Water tightness	to class E1200, EN 1027; EN 12208			E750, EN 1027; EN 12208	
Thermal insulation	U _f from 1.0 W/(m ² K)	U _f from 1.5 W/(m ² K)	U _f from 1.9 W/(m ² K)	U _f from 2.2 W/(m ² K)	U _f from 1.4 W/(m ² K)
Burglary resistance	class RC1 do RC3, EN 1627	class RC1 do RC3, EN 1627	—	—	—