MB-79N

WINDOW AND DOOR SYSTEMS

TECHNICAL DATA	MB-79N ST / MB-79N SI
Frame depth	70 mm
Leaf depth	79 mm
Glazing thickness	1,5 - 63 mm
MIN. VISIBLE PROFILE WIDTH	
Frame	50,5 mm
Leaf	from 33,5 mm
MAX STRUCTURE DIMENSIONS AND WEIGHT	
Max. door leaf dimensions (H×L)	H to 2700 mm L to 1700 mm
Max. sash weight	180 kg

MB-79N

MB 79N is an economical window and door system that meets improved thermal and acoustic insulation norms. It is the successor of the acclaimed and widely used in the construction industry MB-70 system. Due to its high strength and durability, it creates rich constructional possibilities.

It is used to make a wide range of joinery, including fixed windows, casements, tilt and tilt and slide windows, single- and double-leaf external doors and shop window solutions with doors.

The system comes in several variants:

- the economical MB-79N E, with a single-component central gasket in the windows,
- the MB-79N ST version with a two-component central gasket,
- and the MB-79N SI variant with the best thermal insulation and profiles equipped with insulating inserts and a two-component central gasket.

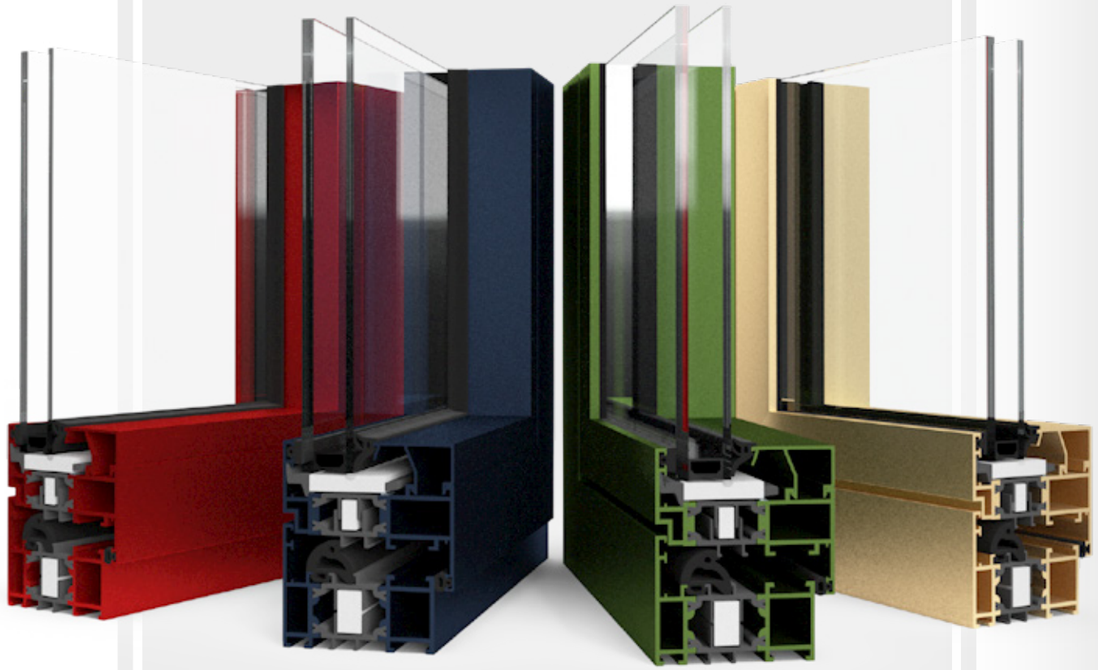
Alternative variants of MB-79N window profiles

MB-79N SI

MB-79N E

COLOURS

Aluminium profiles create unlimited possibilities. To achieve the desired colour effect, the windows can be varnished using RAL K7 palette colours or wood-like coatings.



ALUPROF
ALUMINIUM SYSTEMS

LET'S BUILD A BETTER FUTURE

Window and door system
MB-79N

The MB-79N is the latest cutting-edge, budget-friendly window and door system in the ALUPROF range. Introduced with a view to meeting heightened thermal insulation requirements, it is employed for a broad range of structures, including fixed, turn, tilt, tilt and turn, and tilt-and-slide windows, singe and double exterior doors and shop windowtype solutions with doors. Besides the economical version, the MB-79N E, which features a one-component central seal, and the MB-79N ST version, with a two-component central seal, we also offer the MB-79N SI variant with top-end thermal insulation and profiles that come equipped with insulating inserts and a two-component central seal. For external doors, the MB-79N SI+ variant, which comes with a central seal and insulating inserts inside the profiles, is available. In addition, the product range includes the MB-79N Casement system for outward-opening windows with a thermal break and the MB-79N US window system, which features a concealed vent.

U_w from 0.64 W/(m²K)

WINDOWS

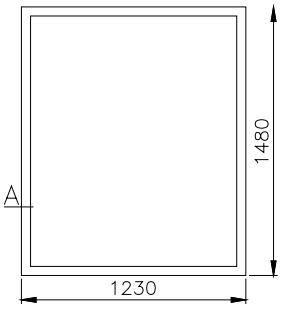
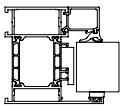
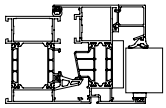
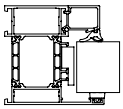
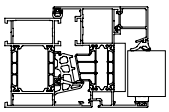
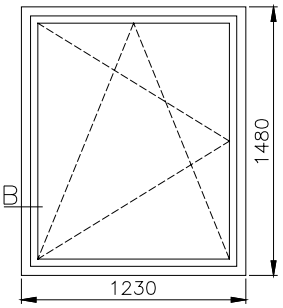
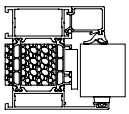
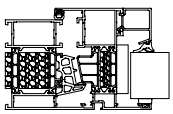
MB-79N ST

MB-79N SI

MB-79N US SI

MB-79N CASEMENT SI

Examples of heat transfer coefficients U_w

WINDOWS SCHEMES	SECTION A OR B		Value U_w [W/m²K]		
			Glass with Multitech frame		
			Double chamber		Single chamber
			U_g=0.5	U_g=0.7	U_g=1.0
	MB-79N E	 K520012X	0.82	0.98	1.25
		 K520012X + K520102X	0.98	1.12	1.37
	MB-79N ST	 K520012X	0.82	0.98	1.25
		 K520012X + K520102X	0.95	1.09	1.30
	MB-79N SI	 K520012X	0.70	0.86	1.13
		 K520012X + K520102X	0.79	0.93	1.18

DOORS

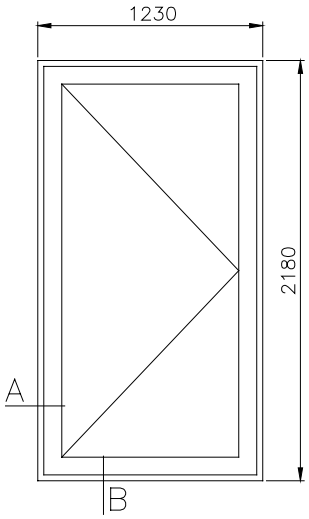
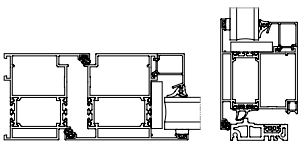
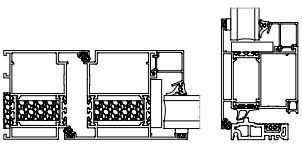
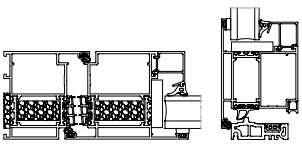
MB-79N ST

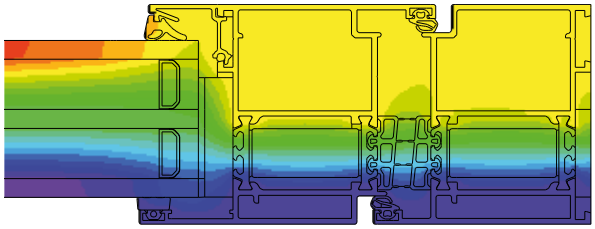
MB-79N SI

MB-79N SI+

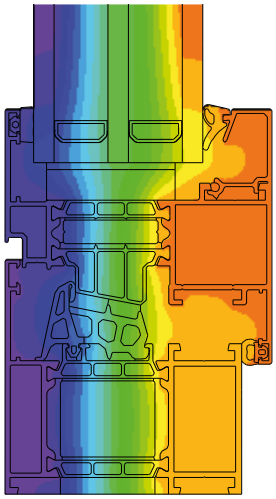
MB-79N SI, SI+

Examples of heat transfer coefficients U_D

DOORS SCHEMES	SECTION A OR B		Value U_D [W/m²K]		
			Glass with Multitech frame		
			Double chamber		Single chamber
			U_g=0.5	U_g=0.7	U_g=1.0
	MB-79N E (ST)	 K520131X+K520146X+8G00031X	1.16	1.29	1.51
	MB-79N SI	 K520131X+K520146X+8G00031X	1.06	1.20	1.44
	MB-79N SI+	 K520131X+K520146X+8G00031X	1.01	1.14	1.35



Distribution of isotherms in **MB-79N SI+** door



Distribution of isotherms in **MB-79N SI** window

FEATURES AND AESTHETICS

- profile depth: 79 mm for the vent and 70 mm for the window frame and door leaf
- the windows and doors feature thermal breaks made of an innovative material with a brand-new shape, allowing the use of a seal in the profile insulation
- three thermal variants for the window structures, the MB-79N E, MB-79N ST and MB-79N SI. Three variants for the door structures, the MB-79N ST, MB-79N SI and MB-79N SI+
- the structure meets the Technical Requirements which came into force in 2021, at 0.9 W/(m²K) for the windows and 1.3 W/(m²K) for the doors
- thermal insulation: U_W from 0.64 W/(m²K)
- excellent kinematics, making it possible to build narrow, operable windows
- door leaf profiles have an isolation joint, which eliminates thermal stresses during operation
- invisible hinges and the most popular multi-point hardware can be used, including concealed fittings, together with state-of-the art AluPilot fittings. For doors, hardware with automation and access control functions is also available
- suitable for a wide range of double or triple glazing of up to 63 mm for windows and 54 mm for doors, making it possible to use every commonly available type of glass, including acoustic and burglary-resistant glass
- class RC1 to RC3 burglary-resistant doors can be produced using the system, as can panelled front doors, providing a wealth of aesthetic potential
- a large selection of handles in a range of styles is available, including a minimalist look, with a rosette or without
- the MB-79N Casement variant, with outward-opening windows and a thermal break, is also available

TECHNICAL SPECIFICATION	MB-79N WINDOWS	MB-79N DOORS	MB-79N CASEMENT
Frame depth	70 mm	70 mm	70 mm
Casement depth	79 mm	70 mm	79 mm
Glazing thickness	frame: 1.5 – 54 mm, vent: 10.5 – 63 mm	vent: 1.5 – 54 mm	frame: 1.5 – 54 mm, vent: 10.5 – 63 mm
Max. casement size (H×L)	H to 2700 mm, L to 1350 mm / H to 2150 mm, L to 1700 mm	H to 2800 mm, L to 1400 mm	H to 2700 mm, L to 1400 mm / H to 2500 mm, L to 2400 mm

PERFORMANCE	MB-79N WINDOWS	MB-79N DOORS	MB-79N CASEMENT
Air permeability	class 4, EN 12207	class 4, EN 12207	class 4, EN 12207
Water tightness	class E 1950, EN 12208	class E 900, EN 12208	class E 1800, EN 12208
Thermal insulation	U_w from 0.64 W/(m²K)* U_w from 0.72 W/(m²K)**	U_D from 0.90 W/(m²K)***	U_w from 0.74 W/(m²K)****
Windload resistance	class C5, EN 12210	class C5/B5, EN 12210	class C5/B5, EN 12210

* - U_w for MB-79N SI-based fixed window casement size 1700×2700 mm, with glazing U_g=0.5 W/(m²K)
** - U_w for MB-79N SI-based openable window casement size 1700×2150 mm, with glazing U_g=0.5 W/(m²K)
*** - U_D for MB-79N SI+ door size 1400×2800 mm, with glazing U_g=0.5 W/(m²K)
**** - U_w for MB-79N Casement SI-based openable window casement size 1900×2500 mm, with glazing U_g=0.5 W/(m²K)

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