



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, single 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.



Uw from 0.11 BTU/(h·ft²·°F)

— WINDOWS



MB-79N ST



MB-79N SI

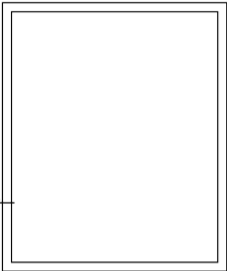
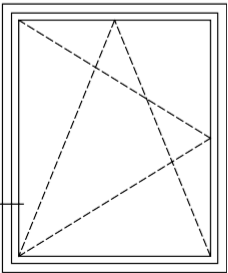
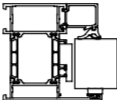
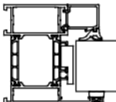
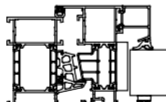
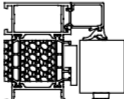
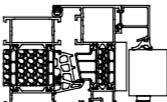


MB-79N US SI



MB-79N CASEMENT SI

Examples of heat transfer coefficients U_w

WINDOWS SCHEMES	SECTION A OR B		Value Uw [BTU/hr·ft²·°F]		
			Glass with Multitech frame		
			Double glazed		Triple Glazed
			Ug=0.09	Ug=0.12	Ug=0.18
48 ½" x 58 ¼" A  B 	MB-79N E	 K520012X	0.14	0.17	0.22
		 K520012X + K520102X	0.17	0.20	0.24
	MB-79N ST	 K520012X	0.14	0.17	0.22
		 K520012X + K520102X	0.17	0.19	0.23
	MB-79N SI	 K520012X	0.12	0.15	0.20
		 K520012X + K520102X	0.14	0.16	0.21

DOORS


MB-79N ST

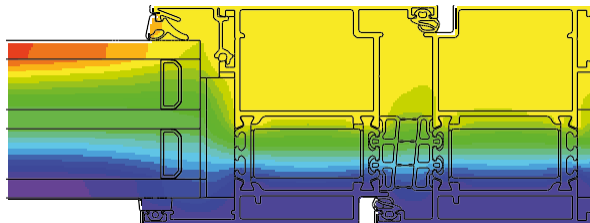
MB-79N SI

MB-79N SI+

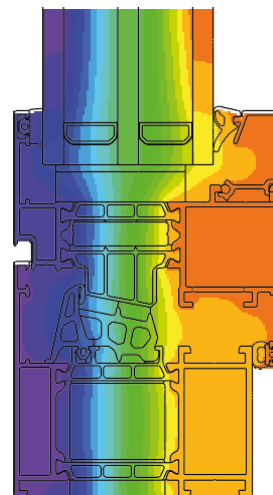
MB-79N SI, SI+

Examples of heat transfer coefficients UD

DOORS SCHEMES	SECTION A OR B	Value UD [W/m²K]		
		Glass with Multitech frame		
		Double chamber		Single chamber
		U _g =0.09	U _g =0.12	U _g =0.18
48 1/2" x 85 7/8"	MB-79N E (ST) K520131X+K520146X+8G00031X	0.20	0.23	0.27
	MB-79N SI K520131X+K520146X+8G00031X	0.19	0.21	0.25
	MB-79N SI+ K520131X+K520146X+8G00031X	0.18	0.20	0.24



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



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

FEATURES AND AESTHETICS

- profile depth: 3 1/8" (79 mm) for the vent and 2 3/4" (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 0.16 BTU/(h·ft²·°F) for the windows and 0.23 BTU/(h·ft²·°F) for the doors
- thermal insulation: UW from 0.11 BTU/(h·ft²·°F)
- 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 2 1/2" (63 mm) for windows and 2 1/8" (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	2 3/4" (70 mm)	2 3/4" (70 mm)	2 3/4" (70 mm)
Casement depth	3 1/8" (79 mm)	2 3/4" (70 mm)	3 1/8" (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 106", L to 53" / H to 84 1/2", L to 67"	H to 110", L to 55"	H to 106", L to 55" / H to 98 1/2", L to 94 1/2"

PERFORMANCE	MB-79N WINDOWS	MB-79N DOORS	MB-79N CASEMENT
Air permeability	12.5 psf	12.5 psf	12.5 psf
Water tightness	40.7 psf	18.8 psf	37.6 psf
Thermal insulation	Uw from 0.11 BTU/(h·ft²·°F)	0.16 BTU/(h·ft²·°F)	0.13 BTU/(h·ft²·°F)
Windload resistance	69 psf	69 psf	69 psf

* - Uw for MB-79N SI-based fixed window casement size 67" x 106", with glazing Ug=0.09 BTU/(h·ft²·°F)

** - Uw for MB-79N SI-based openable window casement size 67"x85", with glazing Ug=0.09 BTU/(h·ft²·°F)

*** - UD for MB-79N SI+ door size 55" x 110", with glazing Ug=0.09 BTU/(h·ft²·°F)

**** - Uw for MB-79N Casement SI-based openable window casement size 79" x 98" , with glazing Ug=0.09 BTU/(h·ft²·°F)