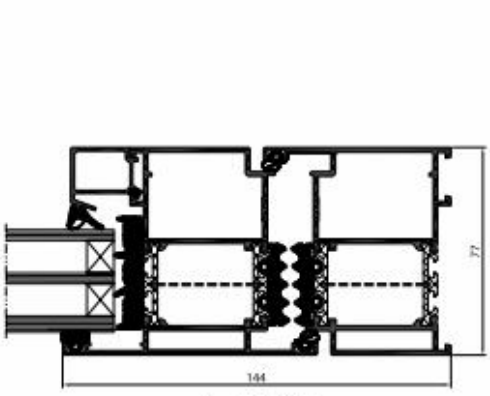
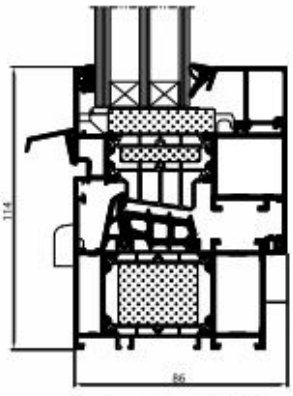
- U_f from 0,57 W/m²K
- Innovative Nanotechnology
- Large unit sizes

Window and door system

MB-86



Door MB-86SI+



Opening window MB-86 Aero

The new MB-86 window and door series have been designed to offer outstanding insulation properties. It meets the increasing requirements from the legislative and general market demands for the enhanced energy saving construction of new windows and doors. Offered in three varieties ST, SI and AERO it is the first aluminum system to employ silica aerogel, The nanoporous material that has a very high proportion of free void volume compared to conventional solid materials. Its high pore volume, low solid content, and torturous path amorphous structure give rise to low values of thermal conductivity. Therefore the system features the industry leading thermal performance. In addition it also features exceptional rate of profiles inertia that allows for greater construction in size and weight.

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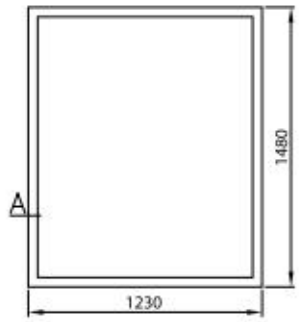
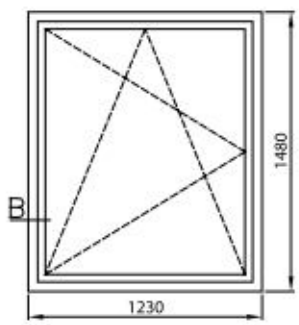
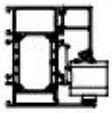
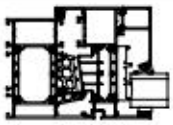
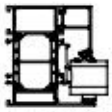
MB-86 WINDOWS

window MB-86 ST

window MB-86 SI

window MB-86 Aero

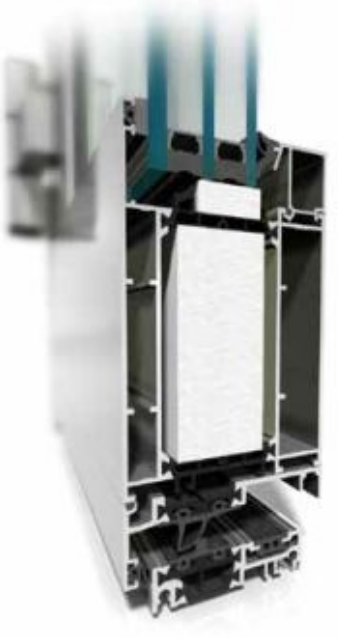
Examples of heat transfer coefficients U_W

WINDOWS SCHEMES	SECTION A OR B		Value U_w [W/m²K] Glass with Thermfix frame		
			Double chamber		Single chamber
			U_g=0,5	U_g=0,7	U_g=1,1
 	MB-86 ST	 K518612X	0,77	0,94	1,29
		 K518612X + K518702X	0,90	1,04	1,33
	MB-86 SI	 K718612X	0,74	0,91	1,26
		 K718612X + K718702X	0,85	0,99	1,28
	MB-86 AERO	 K818612X	0,72	0,88	1,23
		 K818612X + K818702X	0,80	0,93	1,20

MB-86 DOORS

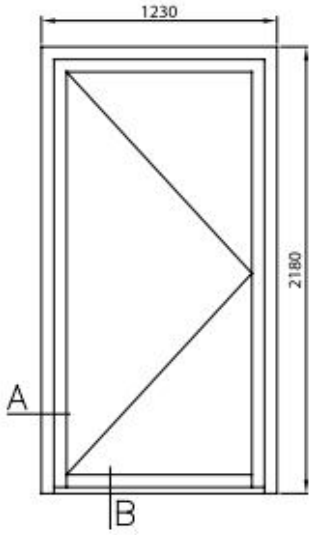
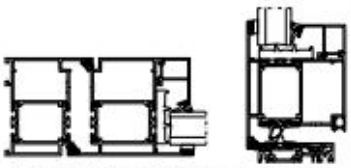
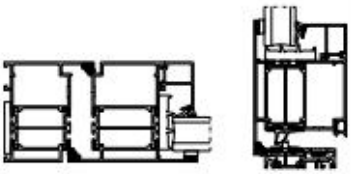
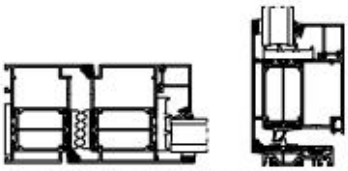
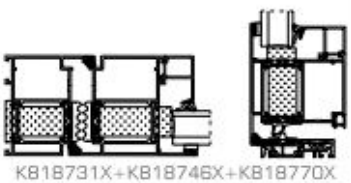
door MB-86 ST

door MB-86 SI

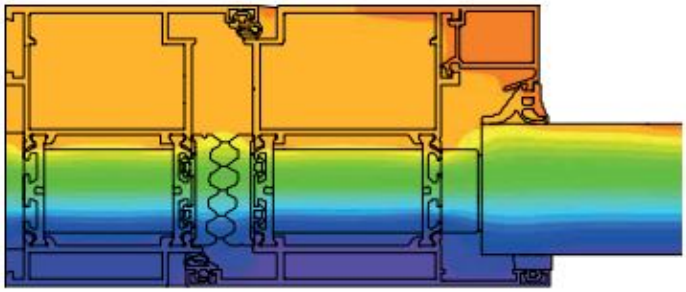


door MB-86 Aero

Examples of heat transfer coefficients U_D

DOOR SCHEME	SECTION A OR B		Value U_D [W/m²K] Glass with Thermfix frame		
			Double chamber		Single chamber
			U_g=0.5	U_g=0.7	U_g=1.1
	MB-86 ST	 K518731X+K518746X+K518770X	1,19	1,32	1,60
	MB-86 SI	 K718731X+K718746X+K718770X	1,07	1,20	1,48
	MB-86 SI+	 K718731X+K718746X+K718770X	0,98	1,11	1,40
	MB-86 AERO	 K818731X+K818746X+K818770X	0,88	1,02	1,33

MB-86



Distribution of isotherms in MB-86 AERO door

Distribution of isotherms in MB-86 AERO window

FEATURES AND BENEFITS

- large selection of profiles
- newly shaped, extra thick thermal breaks
- multi component central gasket
- glazing strips with additional sealing option
- glazing up to 67,5 mm enabling all types of three chamber glazing, acoustic and security, anti burglary glazing
- large, wire-free glass areas
- appropriate for variety of hardware including concealed hinges
- water draining available in both traditional and concealed options
- highly energy efficient from 0,5 W/m²K
- clean, sharp lines of narrow extruded aluminum framing
- multitude of finish options

TECHNICAL SPECIFICATION	WINDOWS	DOORS
Depth of frame	77 mm	77 mm
Depth of leaf	86 mm	77 mm
Glazing range (frame / leaf)	frame: 13,5 - 58,5 mm leaf: 21 - 67,5 mm	13,5 - 58,5 mm
Size and weight limitations		
Maximum size (HxW)	H 2800 mm, W 1700 mm	H 3000 mm, L 1400 mm
Max weight	150 kg	200 kg

PERFORMANCE	WINDOWS	DOORS
Air Permeability	Class 4, EN 12207:2001	Class 3, PN-EN 12207:2001
Watertightness	Class E 1500, EN 12208:2001	Class 5A (200 Pa), PN-EN 12208:2001
Thermal insulation window U_f	MB-86 ST from 1,39 W/(m²K) MB-86 SI from 0,92 W/(m²K) MB-86 AERO from 0,57 W/(m²K)	MB-86 ST from 2,16 W/(m²K) MB-86 SI from 1,76 W/(m²K) MB-86 SI+ from 1,49 W/(m²K) MB-86 AERO from 1,22 W/(m²K)
Resistance to windload	Class C5 (2000Pa) EN 12211:2001; EN 12210:2001	Class C1/B2, PN-EN 12210:2001

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