

Fire rated walls systems

MB-78EI MB-118EI MB-SR50 EI MB-SR50N EI

Aluprof fire rated systems provide an extensive range of solutions to encompass all requirements in protecting "fire zones" in the building, and help to secure evacuation routes. Our Fire Rated product range includes a door & external window wall and internal partition wall system as well as high-rise curtain walling system, complemented by slope glazing & roof light options. Depending on requirements, these applications can achieve different level of performance in terms of fire rating, starting from El30 to El120 for vertical screens, and REl30/RE30 for roof glazing. On the top of that fire rated doors can be fitted with an additional elements to provide smoke proof performance.

• fire resistance to El 120





FEATURES AND BENEFITS



MB-78EI

- rebated single and double doors up to 2,5 m height or automatic sliding doors MB-78EI DPA up to 2,45 m height
- wall partitions and door and wall sets of height up to 4,0 m
- angular door mid-rail option
- large selection of specialized hardware



MB-118EI

- internal and external wall partitions of height up to 4,0 mm
- ability to combine large number of units in the width offering flexibility and variety of use
- fabrication and instalation specs alike MB-78EI guidelines



MB-SR50 EI / MB-SR50N EI

- the same appearance for fire and non-fire rated elements of curtain wall facade
- various design and aesthetics options for capping
- system flexibility allows facetted joints up to ± 7,5° per side, and inclined facades up to ± 15° as well as slope & roof glazing between 0 and 80°
- full compatibility with MB-78EI system allows fire rated door to be fitted into a curtain wall

TECHNICAL SPECIFICATION	MB-78EI	MB-118EI	MB-SR50 EI	MB-SR50N EI	
Frame / mullions width	78 mm	118 mm	85 – 185 mm	85 – 225 mm	
Leaf / transom width	78 mm	_	65 – 145 mm	69,5 – 189,5 mm	
Inertia mullions (range Ix)	_	_	88,47 – 725,81 cm ⁴	81,34 – 1222,14 cm ⁴	
Inertia transoms (range Iz)	_	_	42,02 – 263,48 cm ⁴	49,54 – 629,54 cm ⁴	
Glazing rang	6 – 49 mm	31 – 84 mm	15 – 52 mm		
MIN VISIBLE WIDTH T PROFILE					
Door frame / mullion	51 (72) mm	83 mm	50 mm		
Door leaf / transom	72 (51) mm	110 mm	50 mm		
MAX SIZE AND WEIGHT LIMITATIONS					
Max size of door leaf / curtain wall element (H×W)	H to 2500 mm W to 1400 mm	H to 3000 mm W to 1500 mm	H to 3000 mm / 1200 mm W to 1500 mm / 1800 mm		
Max weight of door leaf / curtain wall	250 kg	410 kg	300 kg		

PERFORMANCE	MB-78EI	MB-118EI	MB-SR50 EI / MB-SR50N EI
Air Permeability	class 2 PN-EN 12207:2001	class A4 PN-EN 12152:2004	class AE 1050 Pa, PN-EN 12152
Watertightness	class 5A, PN-EN 12208:2001	class RE750 PN-EN 12154:2004	class RE1200, PN-EN 12154
Fire resistance	partition walls & rebated doors: El15, El30, El45, El60 or El90, EN 13501-2, automatic sliding doors: El30, EN 1634-1	El120, EN 13501-2	EI15, EI30, EI45, EI60, EN-13501-2, roof lights: REI20 / RE30, EN 13501-2
Thermal insulation (U _f)	from 1,6 W/(m²K)	_	from 1,9 W/(m²K)
Acoustic insulation (R _W)	to 41 dB	_	-







Fire rated walls systems

MB-60E EI **MB-78EI MB-118EI MB-SR50N EI**

Aluprof fire rated systems provide an extensive range of solutions to encompass all requirements in protecting "fire zones" in the building, and help to secure evacuation routes. Our Fire Rated product range includes a door & external window wall and internal partition wall system as well as high-rise curtain walling system, complemented by slope glazing & roof light options. Depending on requirements, these applications can achieve different level of performance in terms of fire rating, starting from EI30 to EI120 for vertical screens, and REI30/RE30 for roof glazing. On the top of that fire rated doors can be fitted with an additional elements to provide smoke proof performance.



FIRE RATED WALLS SYSTEMS / MB-60E EI / MB-78EI / MB-118EI / MB-SR50N EI



MB-60E EI





- · a fire-rated system based on the MB-60E. Common elements can be used
- product range: single and double doors with transom light and partitions
- · the system can be used with all typical, fire-rated glass of various classifications, with a thickness of 5 to 41 mm
- · simple and quick to prefabricate



- · pinternal and external wall partitions of height up to 4.0 mm
- ability to combine large number of units in the width offering flexibility and variety of use $% \left\{ 1,2,...,4\right\}$
- · fabrication and instalation specs alike MB-78El guidelines



MB-78EI



MB-SR50N EI



- rebated single and double doors up to 2.5 m height or automatic sliding doors MB-78EI DPA up to 2.45 m height
- wall partitions and door and wall sets of height up to 4.0 m
- · angular door mid-rail option
- $\cdot\,$ large selection of specialized hardware



- the same appearance for fire and non-fire rated elements of curtain wall facade
- various design and aesthetics options for capping
- system flexibility allows facetted joints up to $\pm 7.5^{\circ}$ per side, and inclined facades up to \pm 15° as well as slope & roof glazing between 0 and 80° • full compatibility with MB-78EI system allows
- fire rated door to be fitted into a curtain wall

TECHNICAL SPECIFICATION	MB-60E EI	MB-78EI	MB-118EI	MB-SR50N EI	
Frame / mullions width	60 mm	78 mm	118 mm	85 – 225 mm	
Leaf / transom width	60 mm	78 mm	_	69.5 – 189.5 mm	
Inertia mullions (range Ix)	_	_	_	81.34 – 1222.14 cm ⁴	
Inertia transoms (range Iz)	_	_	_	49.54 - 629.54 cm ⁴	
Glazing thickness	5 – 41 mm	6 – 49 mm	31 – 84 mm	15 – 52 mm	
MIN VISIBLE WIDTH T PROFILE					
Door frame / mullion	62.5 / 55 mm	51 (72) mm	83 mm	50 mm	
Door leaf / transom	67 / 76 mm	72 (51) mm	110 mm	50 mm	
SIZE AND WEIGHT LIMITATIONS					
Max. size of door leaf / curtain wall element (H×L)	H to 2475 mm L to 1400 mm	H to 3000 mm L to 1400 mm	H to 3000 mm L to 1500 mm	H to 3000 mm / 1200 mm L to 1500 mm / 1800 mm	
Max. weight of door leaf / curtain wall	120 kg	250 kg	410 kg	300 kg	

PERFORMANCE	MB-60E EI	MB-78EI	MB-118EI	MB-SR50N EI
Air permeability	class 2, EN 12207	class 2, EN 12207	class A4, EN 12152	class AE 1050 Pa, EN 12152
Water tightness	class 3A, EN 12208	class 5A, EN 12208	class RE750, EN 12154	class RE1200, EN 12154
Fire resistance	Ei15 – Ei30, EN 13501-2	partition walls & rebated doors: E115, E130, E145, E160 or E190, EN 13501-2, sliding doors: E130, EN 1634-1	El120, EN 13501-2	EI15, EI30, EI45, EI60, EN-13501-2, roof lights: REI30 / RE30, EN 13501-2
Thermal insulation	_	U _f from 1.6 W/(m ² K)	_	U _f from 1.9 W/(m ² K)
Acoustic insulation	_	R _w to 41 dB	_	_



ALUPROF SA

ul. Warszawska 153, 43-300 Bielsko-Biała, Poland tel. +48 33 81 95 300, fax +48 33 82 20 512 e-mail: aluprof@aluprof.eu www.aluprof.eu