

MB-78EI system

Essential characteristics	The requirements of EN 16034:2014 standard	Level and/or class
Fire resistance	4.1	EI ₂ 30, EW30, E30 EI ₂ 60, EW60, E60 EI ₂ 90, EW90, E90
Smoke resistance	4.2	NPD
Release capacity	4.3	NPD
Self-closing	4.4	NPD
Persistence of release capacity	4.5.1	NPD
Durability of self-closing with respect to degradation	4.5.2.1	Class 0
Durability of self-closing with respect to ageing (corrosion)	4.5.2.2	NPD

The performance characteristics resulting from the harmonized standard EN 14351-1:2006 + A2:2016, subject to the system of assessment and verification of performance characteristics 3, should be taken from the declaration of performance of the Product Manufacturer.

Description of product:

Technical doors and windows made of aluminium, hinged, are manufactured as single-leaf and double-leaf technical doors and windows, glazed and with non-transparent filling, with side lighting, with or without overlight.

Maximum dimensions of leaf class EI30 and EI60 (height x width):

H x s = 3006 x 1400 mm in the case of single-leaf technical doors and windows,

H x s = 3006 x 2500 mm in the case of double-leaf technical doors and windows,

Maximum dimensions of overlight and sidelight class EI30 and EI60:

2238 mm height, 2800 mm width.

Maximum dimensions of leaf class EI90 (height x width):

H x s = 2500 x 1400 mm in the case of single-leaf technical doors and windows,

H x s = 2500 x 2500 mm in the case of double-leaf technical doors and windows,

Maximum dimensions of overlight and sidelight class EI90:

2350 mm height, 1800 mm width.

Sashes, leaf frames and thresholds are made of aluminium profiles. The depth of the structural profiles is 78 mm. The profiles have thermal inserts made of glass fibre reinforced polyamide, 34 mm wide. Sash, leaf and crossbar profiles have a three-chamber structure. The chambers of the profiles are filled with insulating inserts.

The sash and leaves of technical doors and windows are equipped with intumescent and closing gaskets. The technical door / technical window leaf can be equipped with a divider bar made of a three-chamber aluminium profile with a depth as indicated above.

The door can be made with or without a threshold.

Filling of the leaf of the technical door and window class EI₂30 is:

- Contraflam EI30 glass, thickness 16 mm; Pyrobel 16, thickness 17.3 mm; Polflam EI30, thickness 20 mm,
- composite glazing with a maximum thickness of 40.0 mm consisting of fire-resistant (internal) glass, which can be a Polflam EI30 glass of minimum 20 mm of thickness and safety glass (external),
- layered opaque element, minimum panel thickness 26.5 mm (GKF board) or 46.5 mm (mineral wool).

Filling of the leaf of the technical door and window class EI₂60 is:

- Contraflam EI60 glass, thickness 25 mm; Pyrobel 25, thickness 26.6 mm; Polflam EI60, thickness 25 mm,