



Centrum Techniki Okrętowej S.A.
Ośrodek Certyfikacji Wyrobów
ul. Szczecińska 65, 80-392 Gdańsk
tel.: +48 58 307 45 28
e-mail: certyfikacja@cto.gda.pl

CENTRUM TECHNIKI OKRĘTOWEJ S.A.
OŚRODEK CERTYFIKACJI WYROBÓW



AC 170

CERTIFICATE OF CONSTANCY OF PERFORMANCE

2434-CPR-0049

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product:

External fire doors and technical windows of the ALUPROF® MB-78EI system

with fire resistance class according to EN 13501-2:2016

EI₂30, EW30, E30, EI₂60, EW60, E60, EI₂90, EW90, E90

placed on the market under the name or trade mark of:

PLASTIXAL Sp. z o. o.
Stare Bożewo 44, 18-430 Wizna

and produced in the manufacturing plants:

PLASTIXAL Sp. z o. o.
Al. J. Piłsudskiego 70, 18-400 Łomża

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard:

EN 16034:2014

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product. The product is also covered by the EN 14351-1:2006+A2:2016 standard.

This certificate, issued the first time on **20.11.2019**, was amended on **14.09.2021** and will remain valid as long as neither the harmonised standard, the construction product, the assessment and verification of constancy of performance methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Zuzanna Andrzejewska

Head of Product Certification Division of CTO S.A.

Gdańsk, 14.09.2021

Performance features of the product: fire doors and technical windows
of the ALUPROF® MB-78EI system

Basic 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
The ability to release	4.3	NPD
Self-closing ability	4.4	NPD
The durability of release ability	4.5.1	NPD
The durability of self-closing ability with reference to degradation	4.5.2.1	Class 0
The durability of self-closing ability with reference to ageing (corrosion)	4.5.2.2	NPD

The performance characteristics, resulting from EN 14351-1:2006+A2:2016 harmonised standard, which are subject of the system of evaluation and verification of performance characteristics 3, shall be obtained from the product manufacturer's declaration of performance parameters.

Product description:

Technical casement doors and windows, made of aluminium, are manufactured as technical profile doors and windows, single and double leaf, glazed and with non-transparent filling, with sidelights and with or without a transom window.

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

H × W = 3006 × 1400 mm in case of technical, single leaf doors and windows,

H × W = 3006 × 2500 mm in case of technical, double leaf doors and windows.

The maximum dimensions of EI30 and EI60 class transom window and sidelight:

height = 2238 mm; width = 2800 mm.

The maximum dimensions of EI90 class leaf dimensions (height x width):

H × W = 2500 × 1400 mm in case of technical, single leaf doors and windows,

H × W = 2500 × 2500 mm in case of technical, double leaf doors and windows.

The maximum dimensions of EI90 and EI60 class transom window and sidelight:

height = 2350 mm; width = 1800 mm.

Door frames, leaf frames and thresholds are made of aluminium profiles. The depth of constructive profiles is 78 mm. The profiles are provided with thermal inserts, made of glass-fibre strengthened polyamide and 34 mm wide. The profiles of door frames, leaves and crosspieces have a three-chamber structure. The chambers of the profiles are filled with insulation inserts.

The frames and leaves of technical doors and windows are provided with swelling and cover gaskets. The leaf of a technical door/window may be provided with a dividing crosspiece, made of a three-chamber profile with a depth as specified above.

The doors can be made with or without a threshold.

The filling of a technical door and window leaf (class EI₂30) is provided by:

- a Contraflam EI30 glass, 16 mm thick; Pyrobel 16, 17.3 mm thick; Polflam EI30, 20 mm thick;
- a double-glazed unit with a maximum thickness of 40.0 mm, consisting of a fire resistant glass (internal), possibly a Polflam EI30 glass with a minimum thickness of 20 mm and a safety glass (external),
- a sandwich, non-transparent panel with a minimum thickness of 26.5 mm (a plasterboard panel) or of 46.5 mm (mineral wool).

The filling of a technical door and window leaf (class EI₂60) is provided by:

- a Contraflam EI60 glass, 25 mm thick; Pyrobel 25, 26.6 mm thick; Polflam EI60, 25 mm thick;

Certificate of Constancy of Performance No. 2434-CPR-0049 issued on 14.09.2021

- a sealed glazing unit (SGU) with a maximum thickness of 41.0 mm, consisting of a fire resistant glass (internal), possibly a Polflam EI60 glass with a minimum thickness of 25 mm and a safety glass (external),
- a double-glazed unit (DGU) with a maximum thickness of 55.0 mm, consisting of a fire resistant glass (internal), possibly a Polflam EI60 glass with a minimum thickness of 25 mm and a safety glass (external),
- a sandwich, non-transparent panel with a minimum thickness of 46.5 mm (combined insulation panels) or 61.5 mm (mineral wool).

The filling of a technical door and window leaf (class EI290) is provided by:

- a Contraflam EI90 glass, 40 mm thick; Pyrostop 90-102, 37 mm thick; Polflam EI90, 32 mm thick;

Increasing the glazing thickness is possible, whereby the weight of a door leaf must not increase by more than 25%.

The fillings are seated on hardwood supports, using glazing corners. The sealing of the seat structure is ensured by EPDM drop seals, fitted in aluminium glazing beads.

The leaves of technical doors and windows are provided with, at least, 2 or 3 hinges per leaf (depending on size and fire resistance class), a standard (one-, two- or three-point) lock or an anti-panic ((one-, two- or three-point) lock, a door closer, an aluminium handle with a steel core.

Detailed technical parameters and final fire classification terms are included in the Classification Report with regards to fire resistance, in conformity with *PN-EN 13501-2:2016-07* standard (*Report No. 1036.1/19/R436N2P*), issued on 4th October 2019 by the Building Research Institute.

Assembly

The technical doors and windows of the ALUPROF® MB-78EI system, class EI30, can be mounted in:

- rigid supporting structures with a thickness of not below 120 mm and at density of 650 kg/m³,
- flexible structures with a thickness of not below 105 mm (plasterboards on a steel grid),
- a profiled aluminium wall of the Aluprof® MB-78EI system,
- a profiled aluminium wall of the Aluprof® MB-SR50N EI system.

The technical doors and windows of the ALUPROF® MB-78EI system, class EI60, can be mounted in:

- rigid supporting structures with a thickness of not below 175 mm and at density of 650 kg/m³,
- a profiled aluminium wall of the Aluprof® MB-78EI EI60 system,
- a profiled aluminium wall of the Aluprof® MB-SR50N EI EI60 system,

The technical doors and windows of the ALUPROF® MB-78EI system, class EI90, can be mounted in:

- rigid supporting structures with a thickness of not below 175 mm and at density of 650 kg/m³.

Intended use

As external technical doors/windows to close wall openings with required fire resistance.