REMARKABLE UV RESISTANCE OF POLFLAM FIRE-RESISTANT GLASS ACCORDING TO EN ISO 12543-4:2022-05

We are pleased to announce that the exceptional UV resistance of POLFLAM fire-resistant glass has been officially confirmed by an independent testing institute Łukasiewicz – Instytut Ceramiki i Materiałów Budowlanych / Institute of Ceramics and Building Materials (ICiMB).

Attached you will find the official test certificate issued by ICiMB, confirming the superior UV durability of POLFLAM fire-resistant glass – **significantly exceeding the requirements set by the relevant standard.**

Many types of fire-resistant glass that contain special fire-resistant interlayers are vulnerable to both direct or indirect UV exposure. Over time, this can result in visible signs of deterioration such as discoloration, yellowing, haziness, cloudiness, bubble formation, or even delamination. Although the fire resistance performance itself remains intact, the visual appearance of the glass can degrade significantly - even after a relatively short period.

The standard EN ISO 12543-4:2022-05 defines testing method laminated safety glass, including fire-resistant laminated safety glass, assessing its durability under exposure to heat, humidity, and UV radiation simulating natural sunlight. While UV resistance is typically tested for products intended for external use, internal applications are also often subject to UV light, whether direct or indirect.

ICiMB tested our standard POLFLAM EI 30 fire-resistant glass without any special UV-protective interlayers or coatings for 4,000 hours of UV exposure. The normative requirement is only 2,000 hours. This means our product withstood twice the exposure time required by the standard.

The certificate applies to the standard POLFLAM EI 30 as a reference glass for all product lines with hydrogel interlayer, and is therefore **representative of the entire POLFLAM EI and EW product family.**
Outstanding UV resistance and long-lasting durability are crucial for maximizing the service life of a product.

The proven reliability and versatile performance of POLFLAM fire-resistant glass are among the key attributes that have been established it as a benchmark of the industry.

Łukasiewicz
Instytut Ceramiki
i Materiałów Budowlanych

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TEST CERTIFICATE 2599/ICiMB/KT/25

Subject of testing: Laminated glass POLFLAM EI30 with a thickness of 20 mm, consisting of:
5mm ESG float glass /10mm gel/5mm ESG float glass

Principal Orderer: **POLFLAM Sp. z o. o.**
Jeziorzany, Aleja Krakowska 3,
05-555 Tarczyn

Type of testing: Radiation resistance test of laminated glass samples according to PN-EN ISO 12543-4:2022-05

Judgement: POLFLAM EI30 laminated glass with a thickness of 20 mm, consisting of:
5 mm ESG float glass/10 mm gel/5 mm ESG float glass.
Meets the requirements of PN-EN ISO 12543-2:2022- 05 and PN-EN ISO 12543-4:2022-05. No changes indicated in point 7.5.2 of PN-EN ISO 12543-4:2022-05 were found in the field of view (outside the marginal strip) of samples exposed to radiation for a period of 4000 hours.

The basic of judgement: Test Report No. 066b.W.24.B dated 16.12.2024 r.

Responsible person for the test:

p.o. Dyrektora Centrum Bezpieczeństwa Pożarowego i Akustyki
dr inż. Magda Kosmal

Krakow, date: 11.06.2025 **DIRECTOR**