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CTO S.A.

Jednostka Notyfikowana Nr 2434

PCA
POLSKIE CENTRUM AKREDYTACJI
CERTYFIKACJA WYROBOW

CENTRUM TECHNIKI OKRĘTOWEJ S.A.

OŚRODEK CERTYFIKACJI WYROBÓW

CERTIFICATE OF CONSTANCY OF PERFORMANCE

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

Fire resistant and smoke control rolling shutter,

in fire resistance classes, acc. to PN-EN 13501-2:2016

$EI_1 60$, $EI_2 120$, EW120

in smoke control classes, acc. to PN-EN 13501-2:2016

S_a, S_{200}

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

and produced in the manufacturing plant:

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 EN 13241:2003+A2:2016 standard under system 3 of assessment and verification of constancy of performance.

This certificate first issued on 09.04.2019 was amended on 02.10.2020, 26.02.2021 and 09.08.2021 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of performance methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

Zbigniew Karpiński
President of Board of CTO S.A.

Gdańsk, 09.08.2021

Certificate of Performance Constancy [redacted] **issued on 09.08.2021.**

Product performance characteristics: fire resistant and smoke control rolling shutter [redacted]

Essential characteristics	Requirements of standard EN 16034:2014	Level, class and/or description
Resistance to fire	4.1	$EI_1$60, $EI_2$120, EW120
Smoke control	4.2	S_a, S_{200}
Ability to release	4.3	fulfils
Self-closing	4.4	C
Durability to ability to release	4.5.1	fulfils
Durability of self-closing against degradation	4.5.2.1	Category of use 2
Durability of self-closing against ageing (corrosion)	4.5.2.2	fulfils

The performance characteristics, resulting from EN 13241:2003+A2:2016 harmonised standard, which are subject of the system of assessment and verification of constancy of performance 3, shall be obtained from the product manufacturer's declaration of performance.

Product description:

A fire resistant rolling shutter of [redacted] EI120/EW120 type with maximum dimensions: width 18m, height 10 m, consists of the following elements: a rolling shutter jacket, a winding shaft, winding shaft supports, guides, a ballast strip, a drive system.

A fire resistant and smoke control rolling shutter with maximum dimensions:

- 2 x high + width ≤ 15,08 m (in the clear of the frame), (Sa, pressure 10 Pa),
- 2 x high + width ≤ 8,46 m (in the clear of the frame), (Sa, pressure 25 Pa),
- width 2850mm, height 2325 mm (S_{200}, pressure 10, 25 and 50 Pa)

consists of the elements listed above. In addition, the edges of the shaft casing gap, through which the curtain jacket passes and the curtain guides are protected by seals.

The rolling shutter jacket consists of five layers, including two identical external layers (FM1D), two internal layers (MH-6) and a middle layer (FM2D). The particular parts of the materials are sewn together with Dg thread.

The upper edge of the rolling shutter jacket is attached to the winding shaft, made of a steel tube. The external layers of the jacket, along its lower edge, are connected with each other with [redacted] material, with a ballast of the rolling shutter inside, made of a steel bar. The guides are made of galvanised steel sheet and protected with fire-resistant plates.

The rolling shutter opening is driven by a tubular motor or an external driving system.

The rolling shutter control is provided by a control centre.

Detailed technical parameters and final classification conditions, acc. to PN-EN 13501-2:2016 standard, are provided in Classification Report No. [redacted] March 2019 and LBO-124.1-KD/21 of 09th July 2021.

Assembly

A standard rigid fixing structure of high or low density.

Intended use

To be used as a vertical, mobile partition to close the passage between fire separation zones at industrial premises and public buildings.