

FIRE SAFETY CERTIFICATION

PRODUCT APPROVAL

No. **APF-1973**

LGAI TECHNOLOGICAL CENTER S.A. (APPLUS), according to the requirements of the SPC-102 Ed. 5, certifies the performances stated in the technical annex following the reference standard for:

Product range	ADEXON-CFC120E CONCERTINA FIRE CURTAIN (INTEGRITY) (* EN 13241:2003+A2:2016 INDUSTRIAL COMMERCIAL, GARAGE DOORS AND GATES. PRODUCT STANDARD, PERFORMANCE CHARACTERISTICS
Company	Cubex (UK) Ltd T/A ADEXON FIRE & SMOKE L36 5SH PROSPECT HOUSE, HUYTON CHURCH ROAD L3655H, LIVERPOOL, MERSEYSIDE, UK
Manufactured	23/32305610
Standard Reference	EN 16034:2014 "Pedestrian doorsets, industrial, commercial, garage doors and openable windows. Product standard, performance characteristics. Fire resisting and/or smoke control characteristics".
Product Details and Test Report	Please check at the technical annex file and the range report nº 21/25141-818 & 21/25141-818-1





(* This standard is not the subject of this certification; it is used only for clarification of the type of product to which the fire performances according to the standards specified in the clause Classification and testing standards are certified

Renovation of the initial certificate issued on 4th July 2022

Valid until 30th June 2024

Bellaterra, 11th August 2023

 LGAI Technological Center, S.A. Xavier Ruiz Peña Product Conformity B. U., Managing Director	
You can check the validity of this certificate on our website: www.appluslaboratories.com/certified_products	

This document is not valid without its technical annex, whose number coincides with the number of certificate



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Annex according to **EN 16034:2014**

PEDESTRIAN DOORSETS, INDUSTRIAL, COMMERCIAL, GARAGE DOORS AND OPENABLE WINDOWS.
 PRODUCT STANDARD, PERFORMANCE CHARACTERISTICS. FIRE RESISTING AND/OR SMOKE CONTROL
 CHARACTERISTICS

CERTIFIED PERFORMANCES

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Resistance to fire (for fire compartmentation uses)	4.1	E120
Smoke control (only for applications where limitation of smoke spread is required)	4.2	NPD
Ability to release	4.3	Released
Self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows)	4.4	C
Durability of ability to release	4.5.1	Release maintained
Durability of self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows): - against degradation (cycling testing) - against ageing (corrosion)	4.5.2.1	1
	4.5.2.2	NDP

PASS; NPD = No Performance Determined, NA = Not Apply

PRODUCT

- Concertina fabric curtain reference "ADEXON-CFC120E CONCERTINA FIRE CURTAIN (INTEGRITY)".
- Overall dimensions: 2940 x 2555 x 780 mm (width x height x depth).
- Head box exposed to fire and guides placed on the wall.
- Fabric made of fiberglass interwoven with steel mesh, coated with fire retardant polyurethane on one side and with aluminium pigments, with 0.7 mm thickness and 710 g/m² density.
- Sewing thread created by aramid fiber filaments with internal reinforcement of steel Inconel.
- Overlaps:
 - Frontal side: by means of simple seam and U-steel clamps dimensions of 35 x 15 mm and 0,8 mm in thickness.
 - Vertical side: by means of simple seam.
- Frontal and vertical sides of fabric incorporates a concertina technique with two simple seams on opposite sides and on the vertical sides, no seam is located on corners.
- Head box made of 1.2 mm thick galvanized steel sheet with overall dimensions 2940 x 200 x 450 mm (width x height x depth).
- Each lateral guide elements:
 - Two galvanized steel profiles (blade type), 2 mm thick
 - Two galvanized steel profiles (blade type), 1.2 mm thick.
 - One galvanized steel guide rail, 2 mm thick.

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- One rear galvanized steel profile, 1.2 mm thick.
- 5 steel spring hinges with dimensions of 120 x 40 x 40 mm.
- 8 threaded rods, dimensions \varnothing 6 x 80 mm, with a washer of outer diameter of 30 mm, each 300 mm. Threaded rods go across galvanized steel clamps, 0.8 mm thick and fixed to the fabric by means of rivets, dimensions \varnothing 4 x 8 mm
- 8 screws with plastic plug, dimensions 10 x 10 /80 mm by Würth, each 600 mm, which fix the guide to the supporting construction.
- Closing bar made of 1.5 mm thick galvanized steel profile with 272 mm of depth and 8 kg per lineal meter weight, which incorporates:
 - a galvanized steel angular profile per side, 2 mm thick.
 - Galvanized steel profiles for fixing the metal bands.
 - Four additional weights of 1.5 kg each one.
- The opening/closing mechanism consists on electric motors reference "SMK2A-128", of which two are located on the frontal roller (1 per end) and one per lateral roller.
- Standard high density rigid supporting construction made of:
 - Two vertical elements made of concrete block coated with mortar on the exposed side to fire with a thickness of 190 mm (concrete blocks) and 10 mm (coated with mortar) and 2043 kg/m³ density.
 - One horizontal element made of concrete block slab with a thickness of 250 mm. and 2043 kg/m³ density.