

# FIRE SAFETY CERTIFICATION

## FIRE PERFORMANCE

No. **APF-1963**

**LGAI TECHNOLOGICAL CENTER S.A. (APPLUS)**, according to the requirements of the SPC-117 certifies the Fire Performances following the Classification and Testing standard for:

<b>Product</b>	Horizontal Active fire curtain ADEXON-HFC 120E HORIZONTAL FIRE CURTAIN (INTEGRITY)
<b>Company</b>	<b>Cubex (UK) Ltd T/A ADEXON FIRE &amp; SMOKE</b> L36 5SH PROSPECT HOUSE, HUYTON CHURCH ROAD L3655H, LIVERPOOL, MERSEYSIDE, UK
<b>Manufactured</b>	23/32305610
<b>Classification and testing standards</b>	ISO/DIS 21524-1:2019 "Fire resistance tests. Elements of building construction. Requirements for active fire curtains"
<b>Product Details and Test Report</b>	Check at the technical annex report nº 21/32302879-2



LGAI has performed the product initial tests and the initial assessment of the management system. Periodically, the entity does a follow-up assessment of the management system.

**Renovation** of the initial certificate issued on 27<sup>th</sup> May 2022

**Valid until 30<sup>th</sup> June 2024**

Bellaterra, 11<sup>th</sup> August 2023

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

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



## APF-1963

### CERTIFIED PERFORMANCES

Fire resistance classification: RE 120

#### Product Application

- Fire exposition from below.
- Total dimensions (accessories included): 3290 x 4610 mm (width x length).
- Dimensions of clearance: 3050 x 4050 mm (width x length).
- Dimensions exposed to fire: 3000 x 4000 mm (width x length).
- Fabric made of fiberglass interwoven with steel mesh, coated with fire retardant polyurethane on both sides and with aluminium pigments, with 0.7 mm thickness and 710 g/m<sup>2</sup> density.
- Sewing thread created by aramid fiber filaments with internal reinforcement of steel Inconel.
- Overlaps: Simple overlap of 70 mm between sections, with two rows of simple seam, one placed at 10 mm in from the end of the fabric, and the other one at 50 mm from the first one.
- Head and lower box made of 1.2 mm thick galvanized steel sheet with overall dimensions 3290 x 280 x 170mm.
- Each lateral guide elements:
  - Galvanized steel profiles, 2 mm thick
  - Galvanized steel profiles, 1.2 mm thick.
  - One galvanized steel guide rail, 2 mm thick.
  - One rear galvanized steel profile, 1.2 mm thick.
  - galvanized steel u-shaped reinforcements, section 89 x 61 mm, 3 mm thick, each 750 mm, fixed to lateral guides by means of screws threads M5 x 16 mm.
  - two aluminium Z-point profiles, placed on the ends of guide (lower head box), 1.2 mm thick, section 120 x 29 x 14 mm.
  - galvanized steel trim, 1.2 mm thick, section 151 x 123 x 72 mm, and fixed to the lateral guides by means of screws threads M5 x 16 mm, each 200 mm.
  - one galvanized steel guide rail per lateral guide, 2 mm thick, 4200 mm long, section 35 x 30 mm and fixed to the brackets for supporting guide rails by means of rivets, dimensions Ø 4 x 8 mm. Each guide rail incorporates a galvanized steel carriage slide, diameter of 23 mm, section of 26 x 61 mm with self-locking nut.
  - seven galvanized steel brackets for supporting each guide rails, 2 mm thick, section 111 x 152 x 104 mm, and fixed to the lateral guides and to the rail guide by means of rivets, dimensions Ø 4 x 8 mm.
  - Inside the side guides is located a galvanized steel shaft, 1.5 mm thick, dimensions Ø 20 x 4400 mm, placed inside each lateral hem of the fabric.
  - Guides fixed to head and lower box by means of screwed galvanized steel auxiliary profiles.
  - Guides fixed to the supporting construction by means of screws with plastic plug and washer, reference W-UR 10, code 0912 810401 by Würth, 10 x 10/80 placed each 800 mm.
- Lower bar made of iron profiles with section 50 x 5 mm and 3184 mm length, is placed inside the lower hem of the fabric each end incorporates an iron tube, 1.5 mm thick and outer diameter of 23 mm
- The opening/closing mechanism consists on electric motors reference "SMK5A", of which two are located on the upper roller (1 per end) and 2 on the lower roller (1 per end).
- Supporting construction made of concrete blocks filled in with mortar; height of 200 mm.