

CERTIFICATE OF CONSTANCY OF PERFORMANCE

LGAI Technological Center, S.A. (APPLUS)
Notified Body Nr. 0370

No. **0370-CPR-6416**

In compliance with Regulation (EU) Nr.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:

SMOKE AND HEAT CONTROL SYSTEMS. SMOKE BARRIERS.

ADEXON-SC60DH & SC150DA MOBILE SMOKE CURTAIN

Placed on the market under the name of:

Cubex (UK) Ltd T/A ADEXON FIRE & SMOKE

L36 5SH PROSPECT HOUSE, HUYTON CHURCH ROAD
L3655H, LIVERPOOL, MERSEYSIDE, UK

And produced in the manufacturing plant:

24/32305170

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

EN 12101-1:2005; EN 12101-1:2005/A1:2006

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.

This certificate was first issued on 4th July 2022 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed and modified on 19th July 2024.

The monitoring assessment will be done before 30th June 2025

Bellaterra, 19th July 2024


LGAI Technological Center, S.A.

Xavier Ruiz Peña
Managing Director, Product Conformity B.U.



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

You can check the validity of this certificate on our website: www.appluslaboratories.com/certified_products

The manufacturer, after the completion of the conformity assessment procedures and the declaration of performance, may affix the CE Marking under his responsibility

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Annex according to **EN 12101-1:2005; EN 12101-1:2005/A1:2006**

SMOKE AND HEAT CONTROL SYSTEMS. PART 1: SPECIFICATION FOR SMOKE BARRIERS

CERTIFIED PERFORMANCE

Essential characteristics	Clauses in this European Standard	Mandated level(s) or class(es)
Operational reliability	5.3	PASS
Response delay	5.4	ASB1 & ASB3
Security Measures	5.4	ASB1 & ASB3
Resistance to fire - Smoke leakage	5.5	PASS
Resistance to fire - Mechanical stability	5.2	DH60 & DA
Resistance to fire - Integrity	5.2	DH60 & DA

PASS; NPD = No Performance Determined; NA = Not Applicable

PRODUCT

- No emission of flaming particles has been reported for the 600 first seconds
- Fibreglass gauze ref. fire resistant "TECTEX 450-PU/2" of 0,37 mm thick and 450 gr/m².
- Lap attaching method: Sewing by double sewing using a fibreglass wire with steel Inconel
- The closing action of the barrier is by gravity, the motor incorporated in the sample is activated only in the upward movement moment of the mesh.
- Galvanised sheet box of 1.2 mm thick.
- Deflectors are attached to the superior box through steel rivets of 4 mm of diameter
- Barrier's Smoke leakage does not exceed 25 m³/h·m² of leak rate at a room temperature
- Motor with reference "SMK2A" and "SMK5A".
- Spaced opening and/or perimeter spaces:

	Distance declared by the customer (mm)
Spaced head(a)	66.46 mm
Spaced head(b)	66.46 mm
Spaced head(c)	66.46 mm
Spaced head(d)	66.46 mm
Spaced head(e)	7 mm
Spaced head(f)	7 mm
Spaced edge (g)	35 mm
Head area = W x Spaced head	796.290 mm ²
Head area = D x spaced edge	98.000 mm ²

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- Total dimensions of the test (including head box): 3000 x 3000 mm (height x width)
- Dimensions of the clearance: 2770 x 2600 (height x width)
- Maximum weight of the counterweight bar 5kg/ml
- It is permitted:
 - The use of multiple rollers inside the box is allowed.
 - The increase of the roller until 20 m;
 - The increase of the total height no more than 10 m.
 - "T" and "L" pieces as accessories to ad on the corners to reduce the spaced between to casing.
- SC60DH:
 - Cloth designed by seaming with vertical overlap of 50 mm
 - Lateral deflector of the galvanized sheet of 1,5 mm thick attached to five points using 8 metric bolts fixed through metal wall plugs with a distance between them of 700 mm and 100 mm and at 100 mm at the points.
 - Counter weight on the low part of the test sample comprised of two iron angles of 40 x 30 x 3 mm.
 - Angles are jointed together and are attached to the cloth through 8 metric bolts.
 - Active smoke barrier type ASB1
 - Calculation on the deviation of the smoke barriers provided by the applicant:

$$d_c = 1,2 \frac{A_0 \rho_1 D_1^3}{3T_1(2M_b + M_c L_c)} = 0.65m$$

- SC150DA:
 - Cloth designed by double seaming 50mm with vertical overlap of 60 mm
 - Lateral deflector of the galvanized sheet of 1,5 mm thick attached to five points using 8 metric bolts fixed through metal wall plugs with a distance between them of 712,5 mm
 - Counter weight on the low part of the test sample comprised of two iron angles of 30 x 30 x 3,5 mm.
 - Angles are jointed together and are attached to the cloth through 8 metric bolts at cert distance
 - Active smoke barrier type ASB3
 - Calculation on the deviation of the smoke barriers provided by the applicant:

$$d_c = 1,2 \frac{A_0 \rho_1 D_1^3}{3T_1(2M_b + M_c L_c)} = 0.68 m$$

The complete technical data of the certified range **ADEXON-SC60DH & SC150DA MOBILE SMOKE CURTAIN** are detailed in the technical file and the range report n° 11/2257-919 M1, 11/2257-399, 12/4444-120, 7/15795-2374, 19/20079-1464 & 18/15795-396.