

# FIRE SAFETY CERTIFICATION

## FIRE PERFORMANCE

No. **APF-2136**

**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>	ADEXON-HFC120EW
<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>	24/32305170
<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 24/32303442



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 / Modification** of the initial certificate issued on 28th June 2024

**Valid until 30<sup>th</sup> June 2025**

Bellaterra, 19<sup>th</sup> July 2024

 <b>Applus<sup>+</sup></b> 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-2136

### CERTIFIED PERFORMANCES

Fire resistance: Integrity 120 minutes Radiation 120 minutes
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#### Product Application

- Maximum overall dimensions:
  - Option 1: 2600 x 3600 mm (width x length)
  - Option 2: Considering integrity criteria: 10000 x 10000 mm (width x length).
  - Option3: Considering radiation criteria for 60 minutes: The following table shows the possible dimension combinations:

		Configuration factors of the test specimen after extension													
		Width (m)													
		3	3,5	4	4,5	5	5,5	6	7	7,5	8	8,5	9	9,5	10
Length* (m)	3,5	9,15	9,50	9,73	9,90	10,02	10,11	10,17	10,26	10,29	10,31	10,33	10,35	10,36	10,37
	4	9,37	9,73	9,99	10,16	10,29	10,39	10,46	10,55	10,59	10,61	10,63	10,65	10,66	10,67
	4,5	9,52	9,90	10,16	10,35	10,49	10,59	10,66	10,77	10,80	10,83	10,85	10,87	10,89	10,90
	5	9,63	10,02	10,29	10,49	10,63	10,74	10,82	10,93	10,96	10,99	11,02	11,04	11,05	11,07
	5,5	9,71	10,11	10,39	10,59	10,74	10,85	10,93	11,05	11,09	11,12	11,14	11,17	11,18	11,20
	6	9,77	10,17	10,46	10,66	10,82	10,93	11,02	11,14	11,18	11,21	11,24	11,26	11,28	11,30
	6,5	9,81	10,22	10,51	10,72	10,88	11,00	11,09	11,21	11,25	11,29	11,32	11,34	11,36	11,38
	7	9,85	10,26	10,55	10,77	10,93	11,05	11,14	11,27	11,31	11,35	11,38	11,40	11,42	11,44
	7,5	9,87	10,29	10,59	10,80	10,96	11,09	11,18	11,31	11,36	11,39	11,43	11,45	11,47	11,49
	8	9,89	10,31	10,61	10,83	10,99	11,12	11,21	11,35	11,39	11,43	11,46	11,49	11,51	11,53
	8,5	9,91	10,33	10,63	10,85	11,02	11,14	11,24	11,38	11,43	11,46	11,50	11,52	11,55	11,56
	9	9,92	10,35	10,65	10,87	11,04	11,17	11,26	11,40	11,45	11,49	11,52	11,55	11,57	11,59
9,5	9,93	10,36	10,66	10,89	11,05	11,18	11,28	11,42	11,47	11,51	11,55	11,57	11,60	11,62	
10	9,94	10,37	10,67	10,90	11,07	11,20	11,30	11,44	11,49	11,53	11,56	11,59	11,62	11,64	

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- Option 4: Considering radiation criteria for 90 minutes: The following table shows the possible dimension combinations:

		Configuration factors of the test specimen after extension						
		Width (m)						
		3	3,5	4	4,5	5	5,5	6
Length* (m)	3,5	13,65	14,17	14,52	14,77	14,95	15,08	15,17
	4	13,98	14,52	14,89	15,16	15,35	15,49	15,60
	4,5	14,20	14,77	15,16	15,44	15,64	15,79	15,91
	5	14,37	14,95	15,35	15,64	15,86	16,01	16,13
	5,5	14,48	15,08	15,49	15,79	16,01	16,18	16,30
	6	14,57	15,17	15,60	15,91	16,13	16,30	16,43
	6,5	14,64	15,25	15,68	15,99	16,23	16,40	16,53
	7	14,69	15,30	15,74	16,06	16,30	16,48	16,61
	7,5	14,72	15,35	15,79	16,11	16,35	16,53	16,67
	8	14,76	15,38	15,83	16,15	16,40	16,58	16,72
	8,5	14,78	15,41	15,86	16,19	16,43	16,62	16,77
	9	14,80	15,43	15,88	16,22	16,46	16,65	16,80
9,5	14,82	15,45	15,90	16,24	16,49	16,68	16,83	
10	14,83	15,46	15,92	16,26	16,51	16,70	16,85	

- Option 5: Considering radiation criteria for 120 minutes: The following table shows the possible dimension combinations:

		Configuration factors of the test specimen after extension						
		Width (m)						
		2,6	2,7	2,8	2,9	3	3,1	3,2
Length (m)	3,6	14,69	14,87	15,05	15,20	15,35	15,48	15,61
	3,7	14,76	14,95	15,12	15,28	15,43	15,56	15,69
	3,8	14,83	15,02	15,19	15,35	15,50	15,64	15,76
	3,9	14,89	15,08	15,25	15,42	15,57	15,70	15,83
	4	14,95	15,14	15,31	15,48	15,63	15,77	15,90
	4,1	15,00	15,19	15,37	15,53	15,69	15,83	15,96
	4,2	15,05	15,24	15,42	15,59	15,74	15,88	16,01

## **APF-2136**

- Maximum clear opening dimensions:
  - Option 1: 2300 x 2950 mm (width x length)
  - Option 2: Considering integrity criteria: 9700 x 9350 mm (width x length).
- Fabric: Considering integrity criteria: 9700 x 9350 mm (width x length) thickness 1,45 mm and weight of finished fabric 1120 g/m<sup>2</sup>.
- Sewing thread: Thread created by aramid fibre filaments with internal reinforcement of steel Inconel
- Vertical joint: Fiberglass interwoven with steel mesh, coated with fire retardant polyurethane in both sides of thickness 0,7 mm and weight of the finished fabric: 680 g/m<sup>2</sup>.
- Head boxes made of galvanized steel sheet of thickness 1,2 mm.
- Vertical guides made of galvanized steel of thickness 2 mm.
- Bottom bar: For the curtain of 10000 x 10000 mm (overall width x overall length): It must be respected at least a total expansion allowance between the bottom bar and side guides of 14,74 mm per bottom bar metre.
- Motor: Tubular motor SMK5A. Nominal voltage: 24 V, Nominal power: 120 W and nominal speed: 14 r.p.m.
- Supporting construction: Aerated concrete wall of two lines of blocks with 200 mm thickness, with total minimum thickness of 400 mm and density of at least 650 kg/m<sup>3</sup>.