

This PDF document contains both of the following Certificate of Constancy of Performance:

Page 2 - 5

Adexon-FC60EW & FC90EW Vertical Fire Curtain (Integrity & Radiation & Smoke) - Certificate 0370-CPR-6418 -- EN 16034_2014 -- Exp 25,06,30

Page 6 - 10

Adexon-FC120EW Vertical Fire Curtain (Integrity & Radiation & Smoke) - Certificate 0370-CPR-6850 -- EN 16034_2014 -- Exp 25,06,30

If you only require one of these certificates, please reach out to one of the team and we will happily provide you with either

CERTIFICATE OF CONSTANCY OF PERFORMANCE

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

No. **0370-CPR-6418**

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:

PEDESTRIAN DOORSETS, INDUSTRIAL, COMMERCIAL, GARAGE DOORS AND OPENABLE WINDOWS.
COVERED BY EN 13241:2003+A2:2016.

ADEXON-FC60EW & FC90EW FIRE CURTAIN (INTEGRITY & RADIATION) 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 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.

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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



Applus+
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



0370-CPR-6418

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	EW60 EW90
Smoke control (only for applications where limitation of smoke spread is required)	4.2	NA
Ability to release	4.3	NA
Self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows)	4.4	NA
Durability of ability to release	4.5.1	NA
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	NA

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

PRODUCT

ADEXON-FC60EW & FC90EW FIRE CURTAIN (INTEGRITY & RADIATION)

- Fire rolling curtain reference "ADEXON-FC60EW & FC90EW FIRE CURTAIN (INTEGRITY & RADIATION)".
- Side guides and casing on the non-exposed to fire side, fire classification EW90
- Side guides and casing within the wall, fire classification EW60
- Curtain maximum dimensions, installed on the non-exposed side:
 - o 12.000 x 4.500 mm or 7.000 mm x 8.000 mm (width x height), with classification EW60
 - o 12.000 x 3.000 mm or 3.000 mm x 8.000 mm (width x height), with classification EW90
- Curtain maximum dimensions, installed within the wall 10.500 mm x 4.000 or 5.000 x 6.000 mm (width x height). Side guides and casing manufactured by 1.2 mm thick galvanized steel. Side guides, with dimensions form 75 mm x 75 mm up to 110 mm x 75 mm, with an Ø22 mm internal tube. Casing, with dimensions 220 mm x 220 mm, with an Ø85mm barrel. 24V motor. Bottom bar made by two metallic "L" profiles 35 x 35 x 3 mm and metallic plate 40 x 4 mm. Glass fiber fabric with aluminum foil in both sides, with 1,45 mm thickness and 1.120 g/m2. The joints between cloth it is placed strips of glass fiber fabric with steel wire reinforcement, with 0.65 mm thickness and 680 g/m2 density Fixing to supporting construction by M8 screws each 450 mm centers.

The complete technical data of the certified product are detailed in the technical file and the range report n° 15/8285-2745 y 18-8285-2476

0370-CPR-6418

CERTIFIED PERFORMANCES

ESSENTIAL CHARACTERISTICS	CLAUSES IN THIS EUROPEAN STANDARD	MANDATED LEVEL(S) OR CLASS(ES)
Resistance to fire (for fire compartmentation uses)	4.1	EW60 EW90
Smoke control (only for applications where limitation of smoke spread is required)	4.2	Sa
Ability to release	4.3 4.4	NA
Self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows)	4.5.1	NA
Durability of ability to release		NA
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	NA

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

PRODUCT

ADEXON-FC60EW & FC90EW FIRE CURTAIN (INTEGRITY & RADIATION) "KIT Sa"

- Dimensions:
 - o Option 1: 2595 x 2795 mm (W x H)
 - o Option 2:

		WIDTH (m)									
		3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
HEIGHT (m)	3,00	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	13,50
	3,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	13,50	14,00	14,50
	4,00	11,00	11,50	12,00	12,50	13,00	13,50	14,00	14,50	15,00	15,50
	4,50	12,00	12,50	13,00	13,50	14,00	14,50	15,00	15,50	16,00	16,50
	5,00	13,00	13,50	14,00	14,50	15,00	15,50	16,00	16,50	17,00	17,50
	5,50	14,00	14,50	15,00	15,50	16,00	16,50	17,00	17,50	18,00	18,50

(The width x height combinations allowed are those of the blank cells. Those highlighted in red are not possible).

0370-CPR-6418

- Fabric: Fibreglass reinforced with steel mesh coated with aluminium foil on both sides, thickness 1.45 mm and density 1120 g/m² and fibreglass interwoven with steel mesh coated on both sides in polyurethane with aluminium pigments of 0.7 mm and 710 g/m². Aramid fibre filament sewing thread with internal steel inconel reinforcement.
- Galvanised steel box:
 - o Option 1 (for curtain with maximum dimensions 2595 x 2795 mm):
 - Dimensions of the box: 220 x 220 mm (W x H)
 - 2 mm galvanised steel brackets located inside the box with the centre of each bracket 500 mm from the centre of the drawer.
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick supported at each end by the supporting structure.
 - o Option 2 (For the large curtain):
 - Dimensions of the box: 220 x 220 mm (W x H)
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick, supported at each end by the supporting structure and with intermediate supports by means of brackets with intermediate support rollers located every 1000 mm along the inside of the box.
 - o Option 3 (For the large curtain):
 - Dimensions of the box: 240 x 260 mm (W x H)
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick, supported at each end by the supporting structure and with intermediate supports by means of brackets with intermediate support rollers located every 1000 mm along the inside of the box.
 - o Option 4 (For the large curtain):
 - Dimensions of the box: 260 x 3000 mm (W x H)
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick, supported at each end by the supporting structure and with intermediate supports by means of brackets with intermediate support rollers located every 1000 mm along the inside of the box.
- Deflectors in fibreglass fabric on side guides and drawer.
- Bottom bar: 1.7 mm thick aluminium funnel.
- Motor:
 - o Tubular motor with planetary gearbox 24 V, 3100 r.p.m and 20 W (For curtain 2595 x 2795 mm (width x height).
 - o Tubular motor with 24 V planetary gearbox, 3350 rpm and 120 W (For the large curtain)
- Acrylic sealant in the gap between runners, drawer and supporting structure, and in the joint between drawer and runners.
- High-density rigid supporting structure with a minimum thickness of 200 mm and a minimum density of 1950 kg/m³.

The complete technical data of the certified product are detailed in the technical file and the report nº 23/32300947

CERTIFICATE OF CONSTANCY OF PERFORMANCE

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

No. **0370-CPR-6850**

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:

PEDESTRIAN DOORSETS, INDUSTRIAL, COMMERCIAL, GARAGE DOORS AND OPENABLE WINDOWS.

COVERED BY EN 13241:2003+A2:2016.

PRODUCT RANGE: **FC120EW**

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 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.

This certificate was first issued on 16th June 2023 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

0370-CPR-6850

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	EW 120
Smoke control (only for applications where limitation of smoke spread is required)	4.2	NA
Ability to release	4.3	NA
Self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows)	4.4	NA
Durability of ability to release	4.5.1	NA
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	NA
	4.5.2.2	NA

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

0370-CPR-6850

PRODUCT

- Maximum dimensions:
 - Width between guides: 8800 mm
 - Opening height: 5500 mm
- Fabric: Fiberglass interwoven with steel mesh coated by aluminium foil 1,45 mm thickness and weight 1120 g/m².
- Sewing thread by aramid fibre filaments with internal reinforcement of steel inconel.
- Galvanized steel box:
 - Option 1 (For the 3000 x 3000 mm or 8800 x 5500 mm curtain)
 - Dimensions of the box: 240 x 260 mm (width x height) and 1,2mm thick.
 - Intermediate support with rollers made of galvanized steel of 2 mm thick and dimensions 240 x 260 mm. Each intermediate barrel support has two rollers with a diameter of 50 mm.
 - Tube-shaped roller made of galvanized steel with a thickness of 1,5 mm and a diameter of Ø80 mm or Ø 100 mm
 - Option 2 (For the 8800 x 5500 mm curtain)
 - Dimensions of the box: 260 x 300 mm (width x height) and 1,2 mm thick.
 - Intermediate support with rollers made of galvanized steel of 2 mm thick and dimensions 260 x 300 mm. Each intermediate barrel support has two rollers with a diameter of 50 mm.
 - Tube-shaped roller made of galvanized steel with a thickness of 1,5 mm and a diameter of Ø80 mm or Ø 100 mm
 - Option 3 (For the 3000 x 3000 mm curtain)
 - Dimensions of the box: 220 x 2200 mm (width x height) and 1,2 mm thick as long as the barrel used has an outside diameter of 80 mm.
 - Intermediate support with rollers made of galvanized steel of 2 mm thick and dimensions 220 x 220 mm. Each intermediate barrel support has two rollers with a diameter of 50 mm.
 - Tube-shaped roller made of galvanized steel with a thickness of 1,5 mm and a diameter of Ø80 mm or Ø 100 mm
- Length of the bottom bar:
 - Option 1 (For the 3000 x 3000 mm curtain): Width of the clear opening
 - Option 2 (For the 8800 x 5500 mm): It must be respected at least a total expansion allowance between the bottom bar and side guides of 127,24 mm.
- Tubular motor of 24 V, 50 W and 32 r.p.m.
- Rigid supporting construction with a minimum thickness of 200 mm and a minimum density of 2045 kg/m³.

The complete technical data of the certified product FC120EW are detailed in the technical file and the report n° 23/32301421.

0370-CPR-6850

EW120-SA

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	EW 120
Smoke control (only for applications where limitation of smoke spread is required)	4.2	Sa
Ability to release	4.3	NA
Self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows)	4.4	NA
Durability of ability to release	4.5.1	NA
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	NA
	4.5.2.2	NA

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

PRODUCT

FC120EW "Kit Sa"

- Dimensions:
 - o Option 1: 2595 x 2795 mm (W x H)
 - o Option 2:

		WIDTH (m)									
		3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50
HEIGHT (m)	3,00	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	13,50
	3,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00	13,50	14,00	14,50
	4,00	11,00	11,50	12,00	12,50	13,00	13,50	14,00	14,50	15,00	15,50
	4,50	12,00	12,50	13,00	13,50	14,00	14,50	15,00	15,50	16,00	16,50
	5,00	13,00	13,50	14,00	14,50	15,00	15,50	16,00	16,50	17,00	17,50
	5,50	14,00	14,50	15,00	15,50	16,00	16,50	17,00	17,50	18,00	18,50

(The width x height combinations allowed are those of the blank cells. Those highlighted in red are not possible).

0370-CPR-6850

- Fabric: Fibreglass reinforced with steel mesh coated with aluminium foil on both sides, thickness 1.45 mm and density 1120 g/m² and fibreglass interwoven with steel mesh coated on both sides in polyurethane with aluminium pigments of 0.7 mm and 710 g/m².
- Aramid fibre filament sewing thread with internal steel inconel reinforcement.

- Galvanised steel box:
 - Option 1 (for curtain with maximum dimensions 2595 x 2795 mm):
 - Dimensions of the box: 220 x 220 mm (W x H)
 - 2 mm galvanised steel brackets located inside the box with the centre of each bracket 500 mm from the centre of the drawer.
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick supported at each end by the supporting structure.

 - Option 2 (For the large curtain):
 - Dimensions of the box: 220 x 220 mm (W x H)
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick, supported at each end by the supporting structure and with intermediate supports by means of brackets with intermediate support rollers located every 1000 mm along the inside of the box.

 - Option 3 (For the large curtain):
 - Dimensions of the box: 240 x 260 mm (W x H)
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick, supported at each end by the supporting structure and with intermediate supports by means of brackets with intermediate support rollers located every 1000 mm along the inside of the box.

 - Option 4 (For the large curtain):
 - Dimensions of the box: 260 x 3000 mm (W x H)
 - Galvanised steel tubular roller with dimensions Ø 78 mm and 1.5 mm thick, supported at each end by the supporting structure and with intermediate supports by means of brackets with intermediate support rollers located every 1000 mm along the inside of the box.

- Deflectors in fibreglass fabric on side guides and drawer.
- Bottom bar: 1.7 mm thick aluminium funnel.
- Motor:
 - Tubular motor with planetary gearbox 24 V, 3100 r.p.m and 20 W (For curtain 2595 x 2795 mm (width x height).
 - Tubular motor with 24 V planetary gearbox, 3350 rpm and 120 W (For the large curtain)
- Acrylic sealant in the gap between runners, drawer and supporting structure, and in the joint between drawer and runners.
- High-density rigid supporting structure with a minimum thickness of 200 mm and a minimum density of 1950 kg/m³.

The complete technical data of the certified product EW120 are detailed in the technical file and the report n° 23/32300949