Efectis UK/Ireland

Efectis UK / Ireland Limited
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CERTIFICATE OF CONSTANCY OF PERFORMANCE N° 2822-UKCA-CPR-0139

In compliance with Regulation 2020 N°1359 of The construction Products (EU exit) Regulation 2020, it was established that the construction product:

Product	**Smoke and heat control systems - Smoke control dampers.**
Reference of the product	**SEDM-L**
Placed on the market by or for	**MANDIK, a.s.** **Dobrisska 550, 26724, Czech Republic**
and produced in the manufacturing plant located in	**Dobrisska 550, 26724, Czech Republic**

is submitted by the manufacturer to a factory production control, and that the approved certification body EFECTIS UK/Ireland, has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of factory production control.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance, described in Annex ZA of the standard **EN 12101-8 : 2011** under system 1 are applied, and that the product(s) fulfil(s) all the prescribed requirements set out above.

This certificate, first issued on **30th April, 2024**, remains valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product and the manufacturing conditions in the plant are not modified significantly.

This certificate allows the manufacturer, its mandatories or its distributors, stated in the United Kingdom Economic Area, to affix the UKCA marking.

Certificate established at Belfast on: **15th May 2024.**

The Certification Technical Director,

Daniel JOYEUX
Certification Technical Director

UKAS PRODUCT CERTIFICATION
10169

Approved body
Nr 2822

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ANNEX TO THE CERTIFICATE OF CONSTANCY OF PERFORMANCE TO THE STANDARD EN 12101-8 : 2011

N° 2822-UKCA-CPR-0139

Product: **Smoke and heat control systems - Smoke control dampers.**

Reference of the product: **SEDM-L**

Certificate delivered to: **MANDIK, a.s.**
Dobrisska 550, 26724, Czech Republic

Description of the field covered by the certificate in accordance with the classification reports issued by PAVUS, a.s, no: PK4-02-20-003-E-0_Mandik_sg, PK4-02-20-004-E-0_Mandik_sg, PK4-02-23-002-E-0_sg, PK4-02-23-003-E-0_sg, PK4-02-23-004-E-0_sg, PK4-02-24-901-E-0_sg.

DESCRIPTION OF THE RANGE

Multi-compartment multi-blade smoke control damper.

Dimensions:	• Cross-sectional size (w x h) : 200 x 430 mm (2 blades) to 1200 x 2030 mm (10 blades) • Length: 250 mm
Body made of calcium silicate board (Promatect-MST)	thickness 40 mm
Blades made of calcium silicate board (Promatect-MST)	thickness 40 mm
Leak tightness:	silicone sealant (Silen series seals) and intumescent tape (Promaseal-LX, width 10 mm)
Actuating mechanisms:	BELIMO type BLE or BEN (15 N.m), type BEE (25 N.m) r type BE (40 N.m)
Control module:	type BRC/Mandik MTS

CLASSIFICATION

Installation as described in classification report PK4-02-20-003-E-0:
- within a wall (in a compartment structure)
- on the surface of a duct made of aerated concrete

E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	AA/ MA	mono/multi
E	**I**	**90**	**(**	**v_{edw}**	**-**	**-**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**MA**	**multi**
E	**I**	**120**	**(**	**v_{ed}**	**-**	**-**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**MA**	**multi**

Installation as described in classification report PK4-02-20-004-E-0:
- within a wall (in a compartment structure)
- on the surface of a duct made of lightweight flexible construction

E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	HOT 400/30	AA/ MA	mono/ multi
E	**I**	**120**	**(**	**v_{edw}**	**-**	**-**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**HOT 400/30**	**MA**	**multi**

Installation on the surface of a duct as described in classification report PK4-02-23-002-E-0:
- Use with cover grille only.

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E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	AA/ MA	mono/multi
E	**I**	**120**	**(**	**v_{ed}**	**-**	**-**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**MA**	**multi**

- Use without cover grille.

E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	AA/ MA	mono/multi
E	**I**	**90**	**(**	**v_{ed}**	**-**	**-**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**MA**	**multi**

Installation within flexible shaft wall construction GypWall Shaft thickness 107 mm and fire resistance EI 120 with penetration seal made of gypsum compound as described in classification report PK4-02-23-003-E-0:

- Use with cover grille or without cover grille.

E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	AA/ MA	mono/multi
E	**I**	**120**	**(**	**v_{ed}**	**-**	**-**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**MA**	**multi**

Installation within low density rigid celling construction with a thickness 150 mm with penetration seal made of gypsum compound, as described in classification report PK4-02-23-004-E-0:

- Use with cover grille only.

E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	HOT 400/30	AA/ MA	mono/ multi
E	**I**	**120**	**(**	**-**	**-**	**h_{od}**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**HOT 400/30**	**MA**	**multi**

- Use without cover grille.

E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	HOT 400/30	AA/ MA	mono/ multi
E	**I**	**90**	**(**	**-**	**-**	**h_{od}**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**HOT 400/30**	**MA**	**multi**

Installation in shaft wall GypWall shaft system (gap sealed with gypsum mortar) as described in classification report PK4-02-24-901-E-0:

E	I	t	(	v_e	-	h_o	-	i	↔	o	)	S	Operating pressure	C_{yy}	AA/ MA	mono/multi
E	**I**	**120**	**(**	**v_{edw}**	**-**	**-**	**-**	**i**	**↔**	**o**	**)**	**S**	**-1000/ +500 Pa**	**C_{mod}**	**MA**	**multi**

DECLARED CHARACTERISTICS

Nominal activation conditions / sensibility:	Compliant
Response delay (response time):	Compliant (< 1 min)
Operational reliability:	Compliant
Durability of response delay:	Compliant (< 1 min)
Durability of operational reliability:	10000 + 10000 cycles - Compliant

DIRECT FIELD OF APPLICATION

Multi-compartment smoke control dampers may be applied to ducts that have been tested to EN 1366-9 and EN 1366-8 as appropriate, constructed from materials of the same density as those tested or of the same material with a greater density or thickness. Application may not be made where there is a change in the surface protection materials. Any paint surface finish shall be as the duct tested or assessed.

Multi-compartment smoke control dampers tested to EN 1366-10 standard may be used in association with fire resisting ductwork tested to EN 1366-1, as flow control damper.

Multi-compartment smoke control dampers may be applied to builders work (created on site) ducts, concrete or aerated concrete ducts and wall, provided that the multi-compartment smoke control damper has been tested on a duct or in a wall constructed from materials of lower density and thickness (e.g. boards or sheet steel) provided that the concrete/aerated

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concrete construction has a thickness that complies with the supporting construction information shown in EN 1363-1 and EN 1366-2 for the time period of classification required. Correct fire resisting fasteners to suit the materials shall be used.

Certificate established at Belfast on: *15th* May 2024.

The Certification Technical Director,

Daniel JOYEUX
Certification Technical Director

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