



PAVUS[®]
FIRE TESTING INSTITUTE

PAVUS, a.s., Prosecká 412/74, 190 00 Praha 9 – Prosek, Czech Republic
Notified Body 1391 Authorization No. ÚNMZ/SPR/106/4000/18-7 from 20th November 2018

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1391-CPR-2022/0033

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Product Regulation or CPR), this certificate applies to the construction product:

Fire damper FDMA

Intended use:

To be used in conjunction with partitions to maintain fire compartments in heating, ventilating and air conditioning installations.

placed on the market under the name or trade mark of:

MANDÍK, a.s.

Dobříšská 550, 267 24 Hostomice, Czech Republic

and produced in the manufacturing plant:

MANDÍK, a. s.

Dobříšská 550, 267 24 Hostomice, Czech Republic

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

EN 15650:2010

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 1st June 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

This Certificate replaces and cancels Certificate of Constancy of Performance No. 1391-CPR-2016/0158 of 9th November 2016 issued by NB 1391.

Prague 1. June 2022



Ing. Jan Tripes
executive director – NB 1391

Technical parameters of the assessed product *)

Nominal dimensions:	Rectangular damper – 180 x 180 mm to 1600 x 1000 mm Circular damper – DN 180 mm až 1000 mm
Blade thickness:	40 mm
Construction length:	375 mm
Actuator position:	On blade axis
Thermal release mechanisms and actuators	Mechanical actuators – thermal fuse 72°C/104°C/147°C, spring loaded Servo actuators: Bellimo – spring return actuator with thermal release mechanism 72°C/95°C/120°C/140°C Gruner - spring return actuator with thermal release mechanism 72°C Schischek - spring return servoactuator with thermal release mechanism 72°C. All servo actuators fulfilled 10 000 cycles according to EN 15650
Body material variants:	Galvanised steel Stainless steel Coated steel
Damper blade acc. to EN 1751:2014:	Through blade minimum class 3 Through body minimum class C

Classification acc. to EN 13501-3+A1:2010:

EI 90 (ve ho i↔o) S
EI 120 (ve ho i↔o) S

Assessed product performance

Essential characteristics	Requirement clauses in EN 15650	Findings
Nominal activation conditions/sensitivity:	4.2.1.2	Conforms EN 15650, 4.2.1.2
- sensing element load bearing capacity	4.2.1.2.2	Conforms EN 15650, 5.2.5 ISO 10294-4:2001, 4.2
- sensing element response temperature	4.2.1.2.3	Conforms EN 15650, 5.2.5 ISO 10294-4:2001, 4.2
Response delay (response time): - closure time	4.2.2.2	<2 min, acc. To EN 15650, 5.2.4 EN 1366-2, 10.4.6
Operational reliability: - cycling	4.3.1, a)	50 cycles before fire test
Fire resistance		
- integrity	4.1.1, a)	E 120, E 90
- insulation	4.1.1, b)	EI 120, EI 90
- smoke leakage	4.1.1, c)	EI 120 S, EI 90 S
- mechanical stability (Under E)	4.1.1 a)	-
- maintenance of cross section (Under E)	4.1.1 a)	-
Durability of response delay:		
- sensing element response to temperature and load bearing capacity	4.2.1.2.2 4.2.1.2.3	Conforms EN 15650, 4.2.1.2
Durability of operational reliability:		
- open and closing cycle tests	4.3.3.2	EN 15650, annex C.3.2 (10 000+100+100 cycles)

Additional characteristics

Corrosion protection	4.2.2 Annex B	Salt spray test (EN 60068-2-52 - no corrosion signs)
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*) Detailed technical parameters and conditions of the final classification according to EN 13501-3+A1:2010 are stated in the Assessment Report of Performance of the Construction product No. P-1391-CPR-2022/0033 of 1. June 2022.

Fire damper FDMA also conforms requirements provided in standard ÖNORM H 6025, see Assessment Report of Performance of the Construction product No. P-1391-CPR-2022/0033 of 1. June 2022.



Jan Tripes
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