



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

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1391-CPR-2021/0145

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 FDMR

Intended use: Fire damper is used to maintain fire compartments and protect means of escape in case of fire in heating, ventilation and air conditioning (HVAC) systems in buildings

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

Mandík, a.s.
Dobříšská 550, 267 24 Hostomice, Czech Republic, ID 26718405

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 5th November 2019 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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-2020/0004 of 27th January 2020 issued by NB 1391.

Prague 25th October 2021




Ing. Jan Tripes
executive director – NB 1391

Technical parameters of the assessed product *)

External dimension of the element:	Ø 100 mm - 200 mm – blade thickness 20 mm Ø 225 mm - 315 mm – blade thickness 25 mm Ø 350 mm - 630 mm – blade thickness 30 mm Ø 710 mm - 800 mm – blade thickness 40 mm
Construction length:	300 mm – 500 mm
Starting devices and drives:	manual mechanism - fuse safety lock 72°C/104°C/147°C with closing spring servo drive: - Bellimo - spring drive with thermal release mechanism 72°C/95°C/120°C/140°C - Gruner - spring drive with thermal release mechanism 72°C - Schischek - spring drive with thermal release mechanism 72°C All used types of drives fulfil 10 000 cycles according to EN 15650
Material versions:	galvanized sheet metal stainless sheet metal painted sheet metal
Tested underpressure:	300 Pa 500 Pa
Leak tightness of the damper according to EN 1751:2014:	leakage through blade – min class 3 case leakage - min. class C
The classification according to EN 13501-3+A1:2009:	EI 90 (ve ho i↔o) S EI 120 (ve ho i↔o) S

Assessed product performance

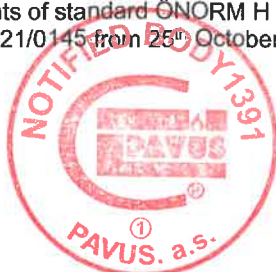
Essential characteristics	Requirements of EN 15650	Findings	Conformity Assessment
Nominal activation conditions/sensitivity:	4.2.1.2	Comply with EN 15650, 4.2.1.2	conforms
- sensing element load bearing capacity	4.2.1.2.2	Comply with EN 15650, 5.2.5, ISO 10294-4:2001, 4.2	conforms
- sensing element response temperature	4.2.1.2.3	Comply with EN 15650, 5.2.5, ISO 10294-4:2001, 4.2	conforms
Response delay (response time):			
- closure time	4.2.1.3	< 2 min, according to EN 15650, 5.2.4, EN 1366-2, 10.4.6	conforms
Operational reliability:			
- cycling	4.3.1, a)	50 cycles performed prior to test	conforms
Fire resistance			
- integrity	4.1.1, a)	E 120, E 90	conforms
- insulation	4.1.1, b)	EI 120, EI 90	conforms
- smoke leakage	4.1.1, c)	EI 120 S, EI 90 S	conforms
- mechanical stability (under E)	4.1.1, a)	-	conforms
- maintenance of the cross section (under E)	4.1.1, a)	-	conforms
Durability of response delay:			
- sensing element response to temperature and load bearing capacity	4.2.1.2.2 4.2.1.2.3	EN 15650, 4.2.1.2	conforms
Durability of operational reliability:			
- open and closing cycle tests	4.3.3.2	Cycling test performed (10 000+100+100 cycles) according to EN 15650, Annex C.3.2	conforms


Other characteristics

Resistance against corrosion	4.2.2 Annex B	Salt spray exposure test (EN 60068-2-52) – no corrosion occurred	conforms
------------------------------	------------------	--	-----------------

*) Detailed technical parameters and conditions of the final classification according to EN 13501-3+A1 are stated in the Assessment Report of Performance of the Construction product No. P-1391-CPR-2021/0145 of 25th October 2021.

Fire damper FDMR fulfils also requirements of standard ONORM H 6025, see Assessment Report of Performance of the Construction product No. P-1391-CPR-2021/0145 from 25th October 2021.




Ing. Jan Tripes
 executive director – NB 1391