



PAVUS, a.s.

Notified Body No. 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-2020/0066/O1

In compliance with the 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:

Smoke control damper SEDM

Intended use of the product in buildings:

Multi compartment smoke control dampers are used in smoke and heat control systems at 600°C or under fire conditions.

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

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 12101-8:2011

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 24th July 2015 as the certificate according to CPR and remains valid until the harmonised standard, the construction product, the assessment and verification procedures for constancy of performance or the manufacturing conditions in the plant of manufacture are significantly modified or the notified product certification body amends or cancels the certificate.

This Certificate replaces and cancels Certificate of Constancy of Performance No. 1391-CPR-2020/0066 of 29th April 2020 issued by NB 1391.

Prague, 11th June 2020




Jaroslav Dufek
Managing Director PAVUS, a.s.
Notified Body No.1391

Technical parameters of the assessed product *)

External dimension of the element: min. (160 x 160) mm, max. (1 600 x 1 000) mm
 Construction length: from 500 mm to 1 000 mm
 Starting devices and drives: - Belimo
 - Schischek
 Leak tightness of the damper according to EN 1751: leakage through blade – min class 2
 case leakage - min. class C
 Underpressure 1500 Pa, overpressure 500 Pa

The classification according to EN 13501-4:2017 **):

Vertical duct	EI 120 (h _{od} - i↔o)S1000C _{mod} HOT 400/30MAmulti EI 120 (h _{od} - i↔o)S1000C _{mod} HOT 400/30AAmulti
Horizontal duct	EI 120 (v _{ed} - i↔o)S1000C _{mod} HOT 400/30MAmulti EI 120 (v _{ed} - i↔o)S1000C _{mod} HOT 400/30AAmulti
Ceiling	EI 120 (h _{ow} - i↔o)S1500C _{mod} HOT 400/30MAmulti **) EI 120 (h _{ow} - i↔o)S1500C _{mod} HOT 400/30AAmulti EI 90 (h _{ow} - i↔o)S1000C _{mod} HOT 400/30AAmulti
Wall	EI 120 (v _{ew} - i↔o)S1000C _{mod} HOT 400/30AAmulti EI 90 (v _{ew} - i↔o)S1500C _{mod} HOT 400/30AAmulti EI 90 (v _{ew} - i↔o)S1500C _{mod} HOT 400/30MAmulti **)


Assessed product performance

Essential characteristics	Requirements of EN 12101-8	Findings ¹⁾	Conformity Assessment
Nominal activation conditions/sensitivity	cl. 4.2.1.3	Closing / opening during the test at the right time	Conforms
Response delay (response time)	cl. 4.2.1.4	< 60 s	Conforms
Operational reliability	cl. 4.4.2.2	C 10 000, C _{mod}	Conforms
Fire resistance – integrity	cl. 4.1.1 a)	E 120, E 90; < 360 m ³ /(h.m ²)	Conforms
Fire resistance – insulation	cl. 4.1.1 b)	EI 120, EI 90	Conforms
Fire resistance – smoke leakage	cl. 4.1.1 c)	EI 120 S1000, EI 120 S1500, EI 90 S1000, EI 90 S1500; < 200 m ³ /(h.m ²)	Conforms
Fire resistance – mechanical stability (under E)	cl. 4.1.1 d)	120/90 min	Conforms
Fire resistance – maintenance of cross-section (under E)	cl. 4.1.1 e)	120/90 min	Conforms
Fire resistance – high operational temperature	cl. 4.1.1 f)	HOT 400/30	Conforms
Durability of response delay	cl. 4.4.2.1	< 60 s	Conforms
Durability of operational reliability	cl. 4.4.2.2	C 10 000, C _{mod} ; < 120 s	Conforms


*) Detailed technical parameters and conditions of the fire classification according to EN 13501-4:2017 are stated in the Assessment Report of Performance of the Construction product No. P-1391-CPR-2020/0066/O1 of 11th June 2020.

**) In practice, the dampers will never be in the open position at the beginning of the smoke hazard.

The smoke control damper SEDM can also be manufactured and placed on the market under the trade names MULTI EKM, BRK/E/EI90M/HOT and Halton Sec Mighty Rectangular, Multi (SMR).


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MANDÍK a.s., Dobříšská 550, 267 24 Hostomice, CZ 20 1391 - CPR - 2020/0066/O1
EN 12101-8 Smoke control damper type/model: Smoke control damper SEDM
Classification EI 120 (h _{od} - i↔o)S1000C _{mod} HOT 400/30MAmulti EI 120 (h _{od} - i↔o)S1000C _{mod} HOT 400/30AAmulti EI 120 (v _{ed} - i↔o)S1000C _{mod} HOT 400/30MAmulti EI 120 (v _{ed} - i↔o)S1000C _{mod} HOT 400/30AAmulti EI 120 (h _{ow} - i↔o)S1500C _{mod} HOT 400/30MAmulti EI 120 (h _{ow} - i↔o)S1500C _{mod} HOT 400/30AAmulti EI 90 (h _{ow} - i↔o)S1000C _{mod} HOT 400/30AAmulti EI 120 (v _{ew} - i↔o)S1000C _{mod} HOT 400/30AAmulti EI 90 (v _{ew} - i↔o)S1500C _{mod} HOT 400/30AAmulti EI 90 (v _{ew} - i↔o)S1500C _{mod} HOT 400/30MAmulti




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