



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

## **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

**No. 1391-CPR-2021/0008**

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:

### **Smoke control damper SEDM**

**Intended use of the product in the building:**

Smoke control damper that is used in smoke control systems, in multi-compartment applications, either up to 600 °C or at fire temperatures

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 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 24<sup>th</sup> July 2015 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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/2020/0066/O1 of 11<sup>th</sup> June 2020 issued by NB 1391.**

Prague 11<sup>th</sup> January 2021



  
**Ing. Jan Tripes**  
executive director – NB 1391

**Technical parameters of the assessed product <sup>\*)</sup>**

External dimension of the element: min. (160 × 160) mm, max. (1 600 × 1 000) mm

Construction length: 500 mm – 1 000 mm

Starting devices and drives: Belimo  
SchischekLeak 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

Classification according to EN 13501-4:2016 <sup>\*)</sup>:

Vertical duct	EI 120 (h <sub>od</sub> - i↔o)S1000C <sub>mod</sub> HOT 400/30AAmulti EI 120 (h <sub>od</sub> - i↔o)S1000C <sub>mod</sub> HOT 400/30AAmulti
Horizontal duct	EI 120 (v <sub>ed</sub> - i↔o)S1000C <sub>mod</sub> HOT 400/30AAmulti EI 120 (v <sub>ed</sub> - i↔o)S1000C <sub>mod</sub> HOT 400/30AAmulti
Ceiling	EI 120 (h <sub>ow</sub> - i↔o)S1500C <sub>mod</sub> HOT 400/30AAmulti EI 120 (h <sub>ow</sub> - i↔o)S1500C <sub>mod</sub> HOT 400/30AAmulti EI 90 (h <sub>ow</sub> - i↔o)S1000C <sub>mod</sub> HOT 400/30AAmulti
Wall	EI 120 (v <sub>ew</sub> - i↔o)S1000C <sub>mod</sub> HOT 400/30AAmulti EI 90 (v <sub>ew</sub> - i↔o)S1500C <sub>mod</sub> HOT 400/30AAmulti EI 90 (v <sub>ew</sub> - i↔o)S1500C <sub>mod</sub> HOT 400/30AAmulti

**Assessed product performance**

Essential characteristics	Requirement clauses in EN 12101-8	Findings	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	C10000, Cmod	Conforms
Fire resistance – integrity	cl. 4.1.1 a)	E 120, E 90 < 360 m <sup>3</sup> /(h.m <sup>2</sup> )	Conforms
Fire resistance – insulation	cl. 4.1.1 b)	EI 120, EI 90	Conforms
Fire resistance – smoke leakage	cl. 4.1.1c)	EI 120 S1000, EI 120 S1500, EI 90 S1000, EI 90 S1500 < 200 m <sup>3</sup> /(h.m <sup>2</sup> )	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	C10000, Cmod < 120 s	Conforms

<sup>\*)</sup> Detailed technical parameters and conditions of the final classification according to EN 13501-4:2016 are stated in the Assessment Report of Performance of the Construction product No. P-1391-CPR-2021/0008 of 11<sup>th</sup> January 2021.

<sup>\*\*)</sup> The smoke control dampers will never be, in practice, in the open position at the beginning of the smoke hazard when manually operated (MA).



  
Ing. Jan Tripes  
executive director – NB 1391