



**PAVUS, a.s., Prosecká 412/74, 190 00 Praha 9 – Prosek, Czech Republic  
Notified Body 1391 Authorization No. ÚNMZ/SPR/012/4000/22-15 from 10<sup>th</sup> August 2022**

# **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

**No. 1391-CPR-2024/0105**

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 MSD**

**to be 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, 26718405**

and produced in the manufacturing plant:

**Mandík, a.s.**

**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 13<sup>th</sup> March 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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-2021/0084 of 6<sup>th</sup> September 2021 issued by NB 1391.**

Prague 31<sup>st</sup> May 2024



**Jan TRIPES**  
executive director – NB 1391

**Technical parameters of the assessed product \*)**

Cross-section shape:	Rectangular	Circular
Nominal dimensions:	160 × 180 mm - 1500 × 800 mm	DN 180 mm - DN 630 mm
Damper blade thickness:	50 mm	40 mm
Construction length:	Both shapes: 375 mm – 500 mm	
Actuators:		
- Belimo:	BLE/BEN (15 Nm) / BEE (25 Nm) / BE (40 Nm)	
- Schischek:	InMax 50.75 (75 Nm)	
Aerodynamic characteristics in accordance with EN 1751:2014:		
- Leakage through damper body:	<b>Class C</b>	
- Leakage through damper blade:	<b>Class 2, Class 3</b>	
Under pressure / over pressure:	up to <b>1500 Pa / 500 Pa</b>	
Fire resistance classification in accordance with EN 13501-4:2016:		
Rectangular damper:	<b>EI 90 (v<sub>edw</sub>-h<sub>odw</sub>-i↔o) S1500C<sub>mod</sub>HOT400/30AAmulti</b> <b>EI 120 (v<sub>edw</sub>-h<sub>odw</sub>-i↔o) S1500C<sub>mod</sub>HOT400/30AAmulti</b>	
Circular damper:	<b>EI 120 (v<sub>ew</sub>-h<sub>ow</sub>-i↔o) S1500C<sub>10000</sub>AAmulti</b>	

**Assessed product performance**

Essential characteristics	Requirement clauses in EN 12101-8	Findings
Nominal activation conditions/sensitivity	4.2.1.3	Conforms 4.2.1.3
Response delay (response time)	4.2.1.4	Conforms 4.2.1.4
Operation reliability	4.4.2.2	C <sub>10,000</sub> , loaded (circular damper) C <sub>mod</sub> , loaded (rectangular damper)
Fire resistance		
- integrity	4.1.1 a), 4.4.1	E
- insulation	4.1.1 b), 4.4.1	EI
- smoke leakage	4.1.1 c), 4.4.1	ES EIS
- mechanical stability (under E)	4.1.1 d)	-
- maintenance of the cross section (under E)	4.1.1 e)	-
- high operating temperature	4.1.1 f), 4.4.1	HOT 400/30
Durability - response delay	4.4.2.1	Conforms 4.4.2.1
Durability - operational reliability	4.4.2.2	C <sub>10,000</sub> , loaded (circular damper) C <sub>mod</sub> , loaded (rectangular damper)

\*) 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-2024/0105 of 31<sup>st</sup> May 2024.



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