

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

OF CONSTANCY OF PERFORMANCE

No. 1391-CPR-2021/0084

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

Intended use: 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

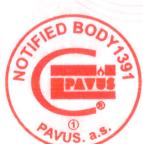
under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This Certificate was first issued on 13th 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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/2021/0011 of 11th January 2021 issued by NB 1391.

Prague 6th September 2021



Ing. Jan Tripes executive director – NB 1391

Technical parameters of the assessed product *)

External dimension of the element: Circular damper – min. Ø 180 mm – max. Ø 630 mm

Rectangular damper – min. (160 \times 180) mm – max. (1 500 \times 800) mm

Construction length:

375 mm - 500 mm

Starting devices and drives:

Belimo

Schischek

Leak tightness of the damper according to EN 1751:2014:

Circular damper:

- leakage through blade – min. class 2; for \varnothing 560 mm to 630 mm – class 3

- case leakage - min. class C

Rectangular damper:

- leakage through blade - min. class 2; for 1 500 × 800 mm - class 3

- case leakage - min. class C

Underpressure 1500 Pa, overpressure 500 Pa Classification according to EN 13501-4:2016 *):

- Circular damper:

El 120 (vew-how - i↔o)S1500C10000AAmulti

- Rectangular damper:

El 120 (v_{edw}-h_{odw} - i↔o)S1500C_{mod}HOT400/30AAmulti

in construction with Ablative coated batt on vertical duct without grille

El 90 (v_{ew-}h_{ow} - i \leftrightarrow o)S1500C_{mod}HOT 400/30AAmulti

El 90 (v_{ed} - i↔o)S1500C_{mod}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	conforms
Fire resistance – integrity	cl. 4.1.1 a)	E 120, E 90 < 360 m³/(h.m²)	conforms
Fire resistance – insulation	cl. 4.1.1 b)	EI 120, EI 90	conforms
Fire resistance – smoke leakage	cl. 4.1.1c)	EI 120 S, EI 90 S < 200 m³/(h.m²)	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

^{*)} 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-2021/0084 of 6th September 2021.

PAVUS. a.5.

Ing. Jan Tripes executive director – NB 1391