



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-2021/0012

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-W

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 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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/2015/0058 of 13th March 2015 issued by NB 1391.

Prague 11th January 2021




Ing. Jan Tripes
executive director – NB 1391

Technical parameters of the assessed product ^{*)}

External dimension of the element: Circular damper – min. \varnothing 180 mm – max. \varnothing 630 mm
 Rectangular damper – min. (160 × 180) mm – max. (1500 × 800) mm

Construction length: 375 mm – 500 mm

Starting devices and drives: Belimo
 Joventa

Leak tightness of the damper according to EN 1751:
 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 1500 × 800 mm – class 3
 - case leakage – min. class C

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

EI 120 (v_{ew}-h_{ow} - i↔o)S1500C₁₀₀₀₀AAmulti**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 < 360 m ³ /(h.m ²)	Conforms
Fire resistance – insulation	cl. 4.1.1 b)	EI 120	Conforms
Fire resistance – smoke leakage	cl. 4.1.1c)	EIS 120 < 200 m ³ /(h.m ²)	Conforms
Fire resistance – mechanical stability (under E)	cl. 4.1.1 d)	120 min	Conforms
Fire resistance – maintenance of cross-section (under E)	cl. 4.1.1 e)	120 min	Conforms
Fire resistance – high operational temperature	cl. 4.1.1 f)	NPD	NPD
Durability of response delay	cl. 4.4.2.1	< 60 s	Conforms
Durability of operational reliability	cl. 4.4.2.2	C10000 < 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-2021/0012 of 11th January 2021.



Jan Tripes
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 executive director – NB 1391