



PAVUS, a.s.
Notified Body No. 1391
Prosecká 412/74, 190 00 Praha 9 - Prosek
Decision No. 27/2013-CPR of 13th December 2013

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1391-CPR-2015/0128

In compliance with Regulation 305/2011/EU of 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

Technical parameters of the product:
are stated in the Annex No. 1 of this certificate of constancy of performance

Intended use of the product in buildings:
Multi compartment smoke control dampers that are to be used in smoke and heat control systems at 600°C or under fire conditions.

produced by or for:
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

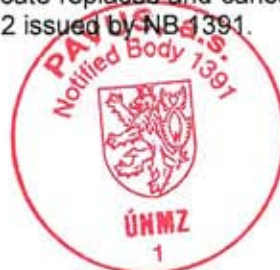
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

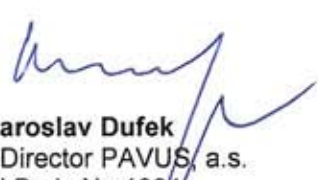
EN 12101- 8:2011

**under system 1 for the performances set out in this certificate are applied and that
the construction product fulfils all the prescribed requirements for these
performances**

This certificate was first issued on 31st May 2012 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performances of the declared essential characteristics, do not change, and the construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body. This Certificate replaces and cancels ES certificate of conformity No. 1391-CPD-0098/2012/O of 19th September 2012 issued by NB 1391.

In Prague 24th July 2015




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

Product parameters and assessing performances are stated on the 2nd side in Annex No.1 of the certificate of constancy of performance.

Technical parametres of the product *)

External dimension of the element: from min. (160 x 160) mm to max. (1 600 x 1 000) mm

Construction length: from 500 mm to 1 000 mm

Starting devices and drives:
- Belimo
- Schischek

Material versions: - Promatect-MS

Leak tightness of the damper according to EN 1751:
- over blade min. class 2
- over case min. class C

The classification according to EN 13501-4:2007+A1:2009 *):

horizontal duct:	EI 120 (v _{ed} -i↔o) S1000C ₁₀₀₀₀ AAMulti EI 120 (v _{ed} -i↔o) S1000C ₁₀₀₀₀ MAMulti
vertical duct:	EI 120 (h _{od} -i↔o) S1000C ₁₀₀₀₀ AAMulti EI 120 (h _{od} -i↔o) S1000C ₁₀₀₀₀ MAMulti
walls:	EI 120 (v _{ew} -i↔o) S1000C ₁₀₀₀₀ AAMulti EI 90 (v _{ew} -i↔o) S1500C ₁₀₀₀₀ AAMulti EI 90 (v _{ew} -i↔o) S1500C ₁₀₀₀₀ MAMulti **)
ceiling:	EI 120 (h _{ow} -i↔o) S1000C ₁₀₀₀₀ AAMulti EI 90 (h _{ow} -i↔o) S1500C ₁₀₀₀₀ AAMulti EI 90 (h _{ow} -i↔o) S1500C ₁₀₀₀₀ MAMulti **)

Assessing product performances

Essential characteristics	Requirement clauses in EN 12101-8	Findings	Conformity Assessment
Nominal activation conditions/sensitivity	4.2.1.3	Closure/opening during the test in right time during right period.	Conforms
Response delay(response time)	4.2.1.4	< 60 s	Conforms
Operational reliability	4.4.2.2	C 10 000	Conforms
Fire resistance			
- integrity (E)	4.1.1 a), 4.4.1	E 120, E 90 < 360 m ³ /(h.m ²)	Conforms
- insulation (EI)	4.1.1 b), 4.4.1	EI 120, EI 90	Conforms
- smoke leakage (EIS)	4.1.1 c), 4.4.1	EIS 120, EIS 90 < 200 m ³ /(h.m ²)	Conforms
- mechanical stability (under E)	4.1.1 d)	120/90 min	Conforms
- maintenance of cross-section (under E)	4.1.1 e)	120/90 min	Conforms
- high operational temperature	4.1.1 f), 4.4.1	HOT 400/30	Conforms
Durability			
- of response delay	4.4.2.1	< 60 s	Conforms
- of operational reliability	4.4.2.2	C 10 000, < 120 s	Conforms

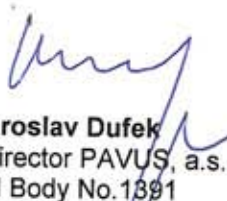
*) Detailed technical parametres and conditions of final classification according to EN 13501-4:2007+A1:2009 are stated in the Assessment Report of performance of the construction product No. P-1391-CPR-2015/0128 of 24th July 2015.

***) In practice dampers will be not on the beginning of danger of smoke in opened position.

The smoke control damper SEDM may be produced and placed on the market also with trade name MULTI EKM.


1391 MANDIK a.s., Dobříšská 550, 267 24 Hostomice, Czech rep. 15 1391 – CPR - 2015/0128
EN 12101-8 Smoke control damper type/model: Smoke control damper SEDM
Classification EI 120 (v _{ed} -h _{od} -i↔o) S1000C ₁₀₀₀₀ AAMulti EI 120 (v _{ed} -h _{od} -i↔o) S1000C ₁₀₀₀₀ MAMulti EI 120 (v _{ew} -h _{ow} -i↔o) S1000C ₁₀₀₀₀ AAMulti EI 90 (v _{ew} -h _{ow} -i↔o) S1500C ₁₀₀₀₀ AAMulti EI 90 (v _{ew} -h _{ow} -i↔o) S1500C ₁₀₀₀₀ MAMulti **)




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