



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-2015/0058

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 certificates applies to the construction product:

Smoke control damper MSD-W

Technical parametres 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

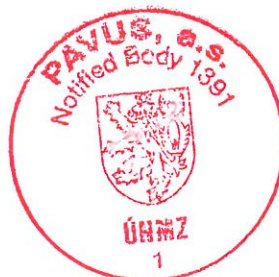
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

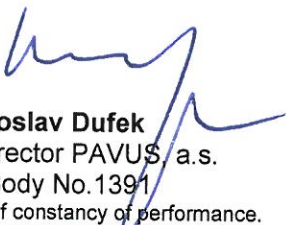
EN 12101- 8:2011

**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 13th March 2015 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construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

In Prague 13th March 2015




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

Technical parametres of the product *)

- External dimension of the element: - circular from min. diameter 180 mm to max. 630 mm
 - square from min. (160 x 180) mm to max. (1 500 x 800) mm
- Construction length: from 375 mm to 500 mm
- Starting devices and drives: - Belimo
 - Belimo with emergency function and electromagnet
 - Joventa with emergency function and electromagnet
- Material versions: - galvanized sheet metal
 - stainless sheet metal
 - painted sheet metal
- Leak tightness of the damper according to EN 1751:
 - circular over blade min. class 2, diameters from 560 mm to 630 mm min. class 3
 - square over blade min. class 2, for max. dimension 1 500 x 800 mm min. class 3
 - over case min. class C

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


EI 120 (v_{ew} - h_{ow} -i↔o) S1500C₁₀₀₀₀ AAmulti

Assessing product performances

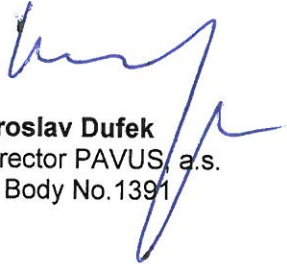
Essential characteristics	Requirement clauses in EN 12101-8	Findings	Conformity Assessment
Nominal activation conditions/sensitivity	4.2.1.3	Closure/opening during the test in right time during right period.	Conforms
Response delay(response time)	4.2.1.4	< 60 s	Conforms
Operational reliability	4.4.2.2	C 10 000	Conforms **)
Fire resistance			
- integrity (E)	4.1.1 a), 4.4.1	E 120 < 360 m ³ /(h.m ²)	Conforms
- insulation (EI)	4.1.1 b), 4.4.1	EI 120	Conforms
- smoke leakage (EIS)	4.1.1 c), 4.4.1	EIS 120 < 200 m ³ /(h.m ²)	Conforms
- mechanical stability (under E)	4.1.1 d)	120 min	Conforms
- maintenance of cross-section (under E)	4.1.1 e)	120 min	Conforms
- high operational temperature	4.1.1 f), 4.4.1	No performance determined	NPD
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-2015/0058 of 13th March 2015.

***) On the request of producer was cycling test performed without load, therefore damper can change own position only before initiation of exhaust.


1391 MANDIK a.s., Dobříšská 550, 267 24 Hostomice, Czech rep. 15 1391 – CPR - 2015/0058
EN 12101-8 Smoke control damper type/model: Smoke control damper MSD-W
Classification EI 120 (v_{ew} - h_{ow} -i↔o) S1500C ₁₀₀₀₀ AAmulti




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