



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

## **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

**No. 1391-CPR-2016/0009**

In compliance with Regulation (EU) No. 305/2011/EU 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 SEDS**

**E<sub>600</sub> 90 (v<sub>e</sub>-i↔o) S1000C<sub>300</sub>AA single**

Smoke control dampers that are to be used in smoke control systems, either at 600 °C or under fire conditions.

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**

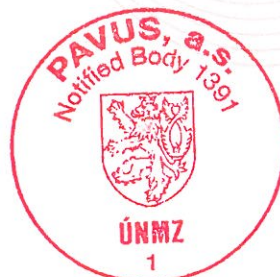
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

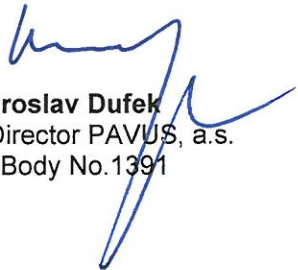
### **EN 12101- 8:2011**

under system 1 for the performances set out in this certificate are applied and that **the performance of the construction product is assessed to remain constant.**

This certificate was first issued on 28<sup>th</sup> January 2016 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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 EC certificate of conformity No. 1391-CPD-0077/2012/O of 24<sup>th</sup> September 2012 issued by NB 1391.

Prague, 28<sup>th</sup> January 2016



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

### Technical parametres of the product \*)

External dimension of the element: from min. (180 x 180) mm to max. (1 600 x 1 000) mm  
 Construction length: 450 mm  
 Starting devices and drives: - Belimo  
 - Schischek  
 Material versions: - galvanized sheet metal,  
 - stainless sheet metal,  
 - painted sheet metal.  
 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 \*):

**E<sub>600</sub> 90 (v<sub>e</sub>-i↔o) S1000C<sub>300</sub>AAsingle**

### Assessing product performances

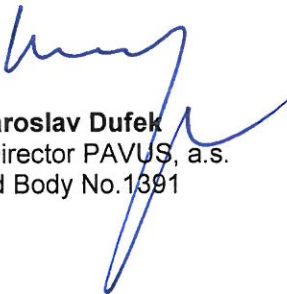
Essential characteristics	Requirement clauses in EN 12101-8	Findings	Conformity Assessment
Nominal activation conditions/sensitivity	4.2.1.3	Closure/opening during the test in right time during right period.	Conforms
Response delay(response time)	4.2.1.4	< 60 s	Conforms
Operational reliability	4.3.2.2	C 300	Conforms
<b>Fire resistance</b>			
- integrity (E)	4.1.1 a), 4.3.1	E <sub>600</sub> 90 < 360 m <sup>3</sup> /(h.m <sup>2</sup> )	Conforms
- insulation (EI)	-	For single compartment dampers is not required/declared.	-
- smoke leakage (ES)	4.1.1 c), 4.3.1	E <sub>600</sub> S 90 < 200 m <sup>3</sup> /(h.m <sup>2</sup> )	Conforms
- mechanical stability (under E)	4.1.1 d)	90 min	Conforms
- maintenance of cross-section (under E)	4.1.1 e)	90 min	Conforms
- high operational temperature	4.1.1 f), 4.3.1	No performance determined	NPD
<b>Durability</b>			
- of response delay	4.3.2.1	< 60 s	Conforms
- of operational reliability	4.3.2.2	C 300, < 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-2016/0009 of 28<sup>th</sup> January 2016.

The smoke control damper SEDS may be produced and placed on the market also with trade name EKS.


1391 MANDÍK a.s., Dobříšská 550, 267 24 Hostomice, Czech republic 16 1391 – CPR - 2016/0009
EN 12101-8:2011 Single compartment smoke control damper type/model: Smoke control damper SEDS
E <sub>600</sub> 90 (v <sub>e</sub> -i↔o) S1000C <sub>300</sub> AAsingle



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