



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-2016/0083

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:

Fire damper DM-S

E 90 (ve i→o) S
E 90 (ho i→o)
E 60 (ho i↔o) S
E 30 (ve ho i↔o) S

Fire dampers are used in conjunction with partitions to maintain fire compartments in heating, ventilation and air conditioning (HVAC) systems in buildings, under methods of use and installation conditions stated in Certification report and related documentation. All fire dampers close automatically in response to raised temperatures indicating fire.

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

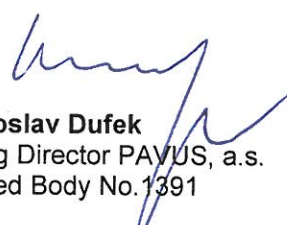
EN 15650:2010

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 10th October 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Prague, 10th October 2016




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 100 mm to max. diameter 630 mm
 Construction length: 250 mm
 Starting devices: - Belimo - spring drive with starting device 72°C/95°C/120°C
 Material versions: - galvanized sheet metal,
 - stainless sheet metal,
 - painted sheet metal.

The classification according to EN 13501-3:2005+A1:2009 *):

E 90 (ve i→o) S
E 90 (ho i→o)
E 60 (ho i↔o) S
E 30 (ve ho i↔o) S


Assessing product performances

| Essential characteristics | Requirement clauses in EN 15650 | Findings | Conformity Assessment |
|------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------|-----------------------|
| Nominal activation conditions/sensitivity: | 4.2.1.2 | | conforms |
| - sensing element load bearing capacity | 4.2.1.2.2 | Sensing element responses in accordance with cl. 5.2.5 EN 15650 | conforms |
| - sensing element response temperature | 4.2.1.2.3 | Release mechanism is equipped with a sensing element in accordance with cl. 5.2.5 EN 15650 | conforms |
| Response delay (response time): - closure time | 4.2.1.3 | < 2 min | conforms |
| Operational reliability: - cycling | 4.3.1, a) | Cycling 50 | conforms |
| Fire resistance: | | | |
| - integrity | 4.1.1, a) | E 60, E 90 | conforms |
| - insulation | 4.1.1, b) | No performance determined | NPD |
| - smoke leakage | 4.1.1, c) | E 60S, E 90S | conforms |
| - mechanical stability (under E) | 4.1.1, a) | E 60, E 90 | conforms |
| - maintenance of the cross section (under E) | 4.1.1, a) | E 60, E 90 | conforms |
| Durability of response delay: - sensing element response to temperature and load bearing capacity | 4.2.1.2.2 4.2.1.2.3 | Sensing element responses in accordance with cl. 5.2.5 EN 15650 | conforms |
| Durability of operational reliability: - open and closing cycle tests | 4.3.3.2 | No performance determined | NPD |

*) Detailed technical parametres and conditions of final classification according to EN 13501-3:2005+A1:2009 are stated in the Assessment Report of performance of the construction product No. P-1391-CPR-2016/0083 of 10th October 2016.

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| MANDIK a.s., Dobříšská 550, 267 24 Hostomice, Czech Republic 16 1391 – CPR - 2016/0083 |
| EN 15650:2010 Fire damper type/model: Fire damper DM-S |
| Classification: E 90 (ve i→o) S E 90 (ho i→o) E 60 (ho i↔o) S E 30 (ve ho i↔o) S |




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