



PAVUS, a.s.
Notified Body No. 1391
Prosecká 412/74, 190 00 Praha 9 - Prosek
Decision No. 6/2017-CPR from 25th January 2017

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1391-CPR-2018/0202

In compliance with the 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

Fire damper

**Halton Exe Sturdy Circular, EI 120 S (ESC)
Halton Exe Sturdy Rectangular, EI 120 S (ESR)**

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:

Fire dampers are used in conjunction with partitions to maintain fire compartments and protect means of escape in case of fire 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:

Halton Oy

Haltonintie 1-3, FI-47400 KAUSALA, Finland, Id No: FI 18404345

and produced in the manufacturing plant:

code: Hal 26724

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

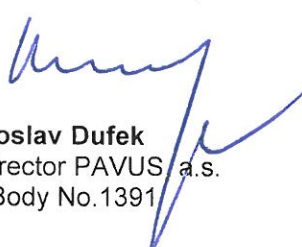
EN 15650:2010

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 24th October 2018 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

In Prague 24th October 2018




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

Technical parameters of the product¹⁾

- External dimension of the element: - circular from min. diameter 160 mm to max. diameter 630 mm
- square (w × h) from min. (160 × 160) mm to max. (1 000 × 500) mm
- Construction length: min. 375 mm, max. 500 mm
- Starting devices and drives: - fuse safety lock 72 °C/95 °C/104 °C/147 °C with closing spring
- pulse magnetic drive
- Bellimo - spring drive with starting device 72 °C/95 °C
- Gruner - spring drive with starting device 72 °C/95 °C
- Schischek - spring drive with starting device 72 °C/95 °C
All used marks of drives fulfil 10 000 cycles according to EN 15650:2010.
- Material versions: - galvanized sheet metal
- stainless sheet metal
- painted sheet metal
- Leak tightness of the damper according to EN 1751: 2014:
- leakage through blade - min. class 2
- case leakage - min. class C
- The classification according to 13501-3:2005+A1:2009:
EI 90 (ve ho i↔o) S
EI 120 (ve ho i↔o) S

Assessed characteristics of the product

Essential characteristics	Requirements of EN 15650	Findings ¹⁾	Conformity Assessment
Nominal activation conditions/sensitivity:	4.2.1.2	Comply with EN 15650, 4.2.1.2	conforms
- sensing element load bearing capacity	4.2.1.2.2	Comply with EN 15650, 5.2.5, ISO 10294-4:2001, 4.2	conforms
- sensing element response temperature	4.2.1.2.3	Comply with EN 15650, 5.2.5, ISO 10294-4:2001, 4.2	conforms
Response delay (response time): - closure time	4.2.1.3	< 2 min, according to EN 15650, 5.2.4, EN 1366-2, 10.4.6	conforms
Operational reliability: - cycling	4.3.1, a)	50 cycles performed prior to test	conforms
Fire resistance			
- integrity	4.1.1, a)	E	conforms
- insulation	4.1.1, b)	EI	conforms
- smoke leakage	4.1.1, c)	ES/EIS	conforms
- mechanical stability (under E)	4.1.1, a)	-	NPD
- maintenance of the cross section (under E)	4.1.1, a)	-	NPD
Durability of response delay: - sensing element response to temperature and load bearing capacity	4.2.1.2.2 4.2.1.2.3	Requirements on sensing element fulfilled according to EN 15650, 4.2.1.2	conforms
Durability of operational reliability: - open and closing cycle tests	4.3.3.2	Cycling test performed (10 000+100+100 cycles) according to EN 15650, Annex C.3.2	conforms
Other characteristics			
Resistance against corrosion	4.2.2 Annex B	Salt spray exposure test (EN 60068-2-52) – no corrosion occurred	conforms

¹⁾ Detailed technical parameters, fire classification and conditions of final classification according to EN 13501-3:2005+A1:2009 are stated in the Certification Report No. P-1391-CPR-2018/0202 of 24th October 2018.



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