



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-2018/0206

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.

Smoke control damper Halton Sec Mighty Rectangular, Multi (SMR)

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.

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

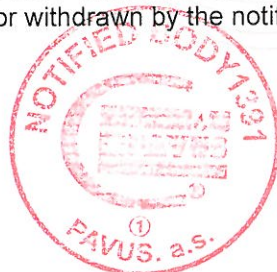
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

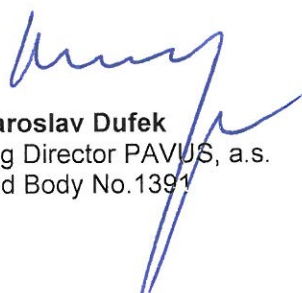
EN 12101- 8:2011

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 29th 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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 29th October 2018




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

Technical parameters of the product ¹⁾

External dimension of the element: from min. (160 × 160) mm to max. (1 600 × 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 1751:2014:
- leakage through blade - min. class 2
- case leakage - min. class C

The classification according to EN 13501-4:2016:

horizontal duct:	EI 120 ($v_{ed-i \leftrightarrow o}$) S1000C ₁₀₀₀₀ HOT 400/30AAmulti EI 120 ($v_{ed-i \leftrightarrow o}$) S1000C ₁₀₀₀₀ HOT 400/30MAmulti
vertical duct:	EI 120 ($h_{od-i \leftrightarrow o}$) S1000C ₁₀₀₀₀ HOT 400/30AAmulti EI 120 ($h_{od-i \leftrightarrow o}$) S1000C ₁₀₀₀₀ HOT 400/30MAmulti
walls:	EI 120 ($v_{ew-i \leftrightarrow o}$) S1000C ₁₀₀₀₀ HOT 400/30AAmulti EI 90 ($v_{ew-i \leftrightarrow o}$) S1500C ₁₀₀₀₀ HOT 400/30AAmulti EI 90 ($v_{ew-i \leftrightarrow o}$) S1500C ₁₀₀₀₀ HOT400/30MAmulti ²⁾
ceiling:	EI 120 ($h_{ow-i \leftrightarrow o}$) S1000C ₁₀₀₀₀ HOT 400/30AAmulti EI 90 ($h_{ow-i \leftrightarrow o}$) S1500C ₁₀₀₀₀ HOT 400/30AAmulti EI 90 ($h_{ow-i \leftrightarrow o}$) S1500C ₁₀₀₀₀ HOT 400/30MAmulti ²⁾

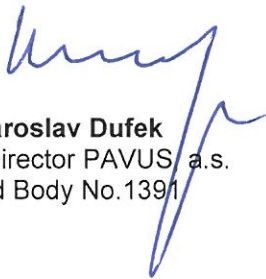
Assessed characteristics of the product

Essential characteristics	Requirements of EN 12101-8	Findings ¹⁾	Conformity Assessment
Nominal activation conditions/sensitivity	4.2.1.3	Comply with EN 12101-8, 4.2.1.3	Conforms
Response delay (response time)	4.2.1.4	< 60 s, according to EN 12101-8, 4.2.1.4	Conforms
Operational reliability	4.4.2.2	C 10 000	Conforms
Fire resistance			
- integrity (E)	4.1.1 a), 4.4.1	E < 360 m ³ /(h.m ²)	Conforms
- insulation (EI)	4.1.1 b), 4.4.1	EI	Conforms
- smoke leakage (EIS)	4.1.1 c), 4.4.1	EIS < 200 m ³ /(h.m ²)	Conforms
- mechanical stability (under E)	4.1.1 d)	E - requirements fulfilled	Conforms
- maintenance of cross-section (under E)	4.1.1 e)	E - requirements fulfilled	Conforms
- high operational temperature	4.1.1 f), 4.4.1	HOT 400/30 according to EN 12101-8, 4.1.1 f)	Conforms
Durability			
- of response delay	4.4.2.1	< 60 s	Conforms
- of operational reliability	4.4.2.2	C 10 000, response time < 120 s	Conforms

¹⁾ Detailed technical parameters, fire classification and conditions of final classification according to EN 13501-4:2016 are stated in the Certification Report No. P-1391-CPR-2018/0206 of 29th October 2018.

²⁾ Smoke control dampers will not be in the open position at the beginning of smoke danger in practice.




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