

Declaration of Performance

Version: A

1. Unique identification code of the product

S-BA2

2. Type

Systemair Smoke Control Damper S-BA2

3. Intended use of the construction product

Ductwork closure of the Smoke and Heat Exhaust Ventilation System – for multi compartments

4. Name, registered trade name and contact address of the manufacturer

Systemair Production a.s.

Hlavná 371,
90043 Kalinkovo, Slovakia

5. Where applicable, name and contact address of the authorized representative

6. System of assessment and verification of constancy of performance of the construction product

System 1

7. Harmonized product standard, test standard, classification standard

EN 12101-8:2011, EN 1366-10:2011+A1:2017, EN 13 501-4:2016

8. Identification number of the notified body

1396

Name and address of the notified person:

FIRES s.r.o.,
Osloboditeľov 282,

059 35 Batizovce, Slovakia


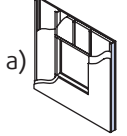
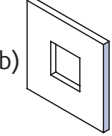




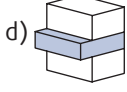

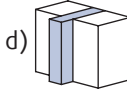
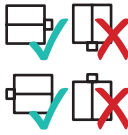

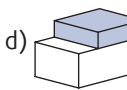

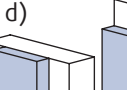
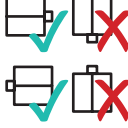
Notified person performed in system 1 the determination of the product type based on type testing (including sampling) and descriptive documentation of the production initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control and issued certificate of constancy of performance:



1396 - CPR - 0202

9. Declared Performance:

Installations:

 1 Wet	S-BA2 150 × 250 800 × 1000	EI 90 ($v_{ew} i \leftrightarrow o$) S1000 C_{MOD} AAmulti	 a)	 b)	
 3 Soft		EI 90 ($v_{ew} i \leftrightarrow o$) S1000 C_{MOD} AAmulti	≥ 125 mm	≥ 125 mm	
 DMH		EI 120 ($h_{od} i \leftrightarrow o$) S1000 C_{MOD} AAmulti	 d)		
 DMV	S-BA2	EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C_{MOD} AAmulti	 d)		
 D1H, D2H	150 × 250 800 × 1000	EI 120 ($h_{od} i \leftrightarrow o$) S1000 C_{MOD} AAmulti	 d)	EN 1366-9 EN 1366-8	
 D1V		EI 120 ($v_{ed} i \leftrightarrow o$) S1000 C_{MOD} AAmulti	 d)		

NOTES:

1 Wet - Wet installation, using plaster/mortar/concrete Filling

3 Soft - Soft Installation, using mineral wool filing

DMH - In the metal duct installation, horizontally oriented damper

DMV - In the metal duct installation, vertically oriented damper

D1H, D2H - On the duct installation, horizontally oriented damper

D1V - On the duct installation, vertically oriented damper

a) - Flexible (plasterboard) wall

b) - Concrete/masonry/cellular concrete (rigid) wall

d) - Duct per EN 1366-9 or EN 1366-8

v_{ew} - Wall placement, vertically oriented damper

v_{ed} - Duct placement, vertically oriented damper

h_{od} - Duct placement, horizontally oriented damper

Notified Body Assessment of S-BA2

Property	Test regulation	Classification standard	Technical specification for assessment	Performance expressed	Evaluation
Nominal activation / conditions/ sensitivity	/	/	EN 12101-8, cl. 4.2.1.3	Smoke control damper for systems with Automatic Activation (suitable also for application in automatic systems).	Satisfied
Response delay (response time)	EN 1366-10, cl. 6.2	/	EN 12101-8, cl. 4.2.1.4	The smoke control dampers' response delay within 60 seconds.	Satisfied
Operational reliability	EN 1366-10, cl. 6.3 + Annex A	EN 13501-4	EN 12101-8, cl. 4.3.2.2	10 000 cycles at nominal operating supply of 24V/ 50Hz and 230V/ 50Hz at the range from 0° to 90° followed by 10 000 cycles at nominal operating supply at range from half open to two thirds open.	Satisfied
Fire resistance • integrity • insulation • smoke leakage • mechanical stability	EN 1366-10, cl. 6.5	EN 13501-4, cl. 7.3.4.1	EN 12101-8, cl. 4.1.1, a), cl. 4.1.1 b), cl. 4.1.1 c), cl. 4.1.1 d), cl. 4.4.1	See installation Table 9.	Satisfied
Fire resistance • maintenance of cross-section • high operational temperature	EN 1366-10, cl. 7.2.7 cl. 6.6.2	EN 13501-4,	EN 12101-8, cl. 4.1.1 e) cl. 4.1.1 f)	See installation Table 9. No performance determined for high operational temperature.	Satisfied , -
Durability of response delay	EN 1366-10, cl. 6.2	/	EN 12101-8, cl. 4.4.2.1	Smoke control damper closes/ opens at the prescribed time and in the required time period.	Satisfied

Durability of operational reliability	EN 1366-10, cl. 6.3	EN 13501-4	EN 12101-8, cl. 4.4.2.2	Smoke control damper passed the open and closing cycle test when the cycles were fully completed with the average time of each cycle less than 120 s.	Satisfied
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This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

Kalinkovo, September 9, 2021


Ing. Maroš Chlebo, Managing Director