

# Declaration of Performance

Version: C

## 1. Unique identification code of the product

S-SA2L

## 2. Type

Systemair Smoke Control Damper S-SA2L

## 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

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## 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 13 501-4:2018

## 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


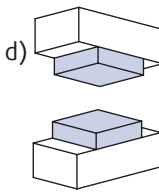

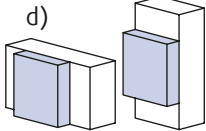

Notified person performed in system 1 the determination of the product type based on type testing (including sampling) and descriptive documentation of the production initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation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



1396 - CPR - 0147

## 9. Declared Performance:

### Installations:

|   |  |   |  |                        |   |
|---|--|---|--|------------------------|---|
| <br>L1H, L2H | S-SA2L<br>200 × 200 ...<br>... 1600 × 1000 | EI 120 ( $h_{od}$ i ↔ o)<br>S1500 $C_{MOD}$ AAmulti | d)  | EN 1366-9<br>EN 1366-8 |   |
| <br>L1V, L2V |  | EI 120 ( $v_{ed}$ i ↔ o)<br>S1500 $C_{MOD}$ AAmulti | d)  | EN 1366-9<br>EN 1366-8 |  |

### NOTES:

**L1H** - Horizontally Oriented Damper (With Ledge)

**L2H** - Horizontally Oriented Damper (Directly)

**L1V** - Vertically Oriented Damper (With Ledge)

**L2V** - Vertically Oriented Damper (Directly)

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

$v_{ed}$  - Duct placement, vertically oriented damper

$h_{od}$  - Duct placement, horizontally oriented damper

## Notified Body Assessment of S-SA2L

| Property  | Test regulation               | Classification standard | Technical specification for assessment   | Performance expressed   | Evaluation       |
|---|-------------------------------|-------------------------|--|---|------------------|
| Nominal activation conditions/<br>sensitivity   | /                             | /                       | EN 12101-8,<br>4.2.1.3   | Smoke control damper for systems with Automatic Activation  | <b>Satisfied</b> |
| Response delay (response time)  | EN 1366-10,<br>6.2            | /                       | EN 12101-8,<br>4.2.1.4   | The smoke control dampers' response delay within 90 seconds.  | <b>Satisfied</b> |
| Operational reliability   | EN 1366-10,<br>6.3            | EN 13501-4              | EN 12101-8,<br>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. | <b>Satisfied</b> |
| Fire resistance<br>• integrity<br>• insulation<br>• smoke leakage<br>• mechanical stability | EN 1366-10,<br>6.5            | EN 13501-4,<br>7.3.4.1  | EN 12101-8,<br>4.1.1, a), 4.4.1<br>4.1.1 b), 4.4.1<br>4.1.1 c), 4.4.1<br>4.1.1 d), 4.4.1 | See installation Table 9.   | <b>Satisfied</b> |
| Fire resistance<br>• maintenance of cross-section<br>• high operational temperature         | EN 1366-10,<br>7.2.7<br>6.6.2 | EN 13501-4,<br>7.3.4.1  | EN 12101-8,<br>cl. 4.1.1 e)<br>cl. 4.1.1 f)  | See installation Table 9.<br>No performance determined for high operational temperature.  | <b>Satisfied</b> |
| Durability of response delay  | EN 1366-10,<br>6.2            | /                       | EN 12101-8,<br>4.4.2.1   | Smoke control damper satisfies requirements of clause 4.4.2.1   | <b>Satisfied</b> |
| Durability of operational reliability   | EN 1366-10,<br>6.3            | EN 13501-4              | EN 12101-8,<br>4.4.2.2   | Smoke control damper satisfies requirements of clause 4.4.2.2   | <b>Satisfied</b> |

Electrical equipment in actuating mechanism:

| Type of control             | Equipment/Actuator   |
|-----------------------------|--|
| Manual crank: Not Available | Microswitch: Not available<br>Electromagnet: Not available   |
| Actuator Belimo (B...):     | BEN230, BEN24, BEE230, BEE24, BE230, BE24, (also with connection possibilities with acronyms -ST, -SR)   |
| Actuator Gruner (G...):     | 342-230-15-S2, 342-024-15-S2, 362-230-20-S2, 362-024-20-S2, 362-230-40-S2, 362-024-40-S2 (also with connection possibilities with acronyms ST03) |

Tightness class according to EN 1751:

| Product type/subtype and/or size range | Achieved class at pressure                                    |
|--|---|
| S-SA2L                                 | Casing class "C" up to 500 Pa<br>Blade class "3" up to 500 Pa |

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, July 25, 2023

  
Ing. Maroš Chlebo, Managing Director