

Declaration of Performance

Version: B

1. Unique identification code of the product

F-B90

2. Type

Systemair Fire Damper F-B90

3. Intended use of the construction product

Fire closure for HVAC ductworks for the compartmentization

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 15 650:2010

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


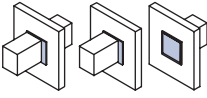



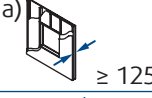
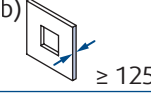
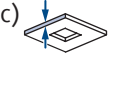







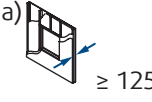
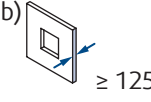





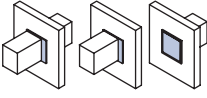



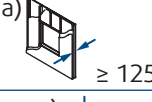
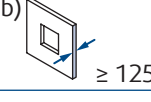
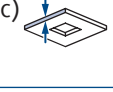







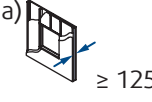
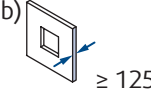




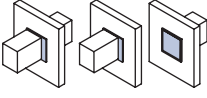



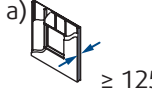







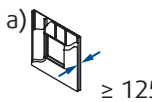




Notified person performed in system 1 the determination of the product type based on type testing (including sampling) and descriptive documentation of the production initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation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



1396 - CPR - 0177

9. Declared performance:

Installations:

| | | | | |
|--|--|--|--|--|
|  1 Wet | F-B90  ...00  01  02  | EI 60 ($v_e h_o i \leftrightarrow o$) S EI 90 ($v_e h_o i \leftrightarrow o$) S | a)  ≥ 125 b)  ≥ 125 c)  ≥ 125 $\geq 620 \text{ (kg/m}^3\text{)}$ |     |
| | F-B90  ...11  22  | EI 60 ($v_e i \leftrightarrow o$) S EI 90 ($v_e i \leftrightarrow o$) S EI 120 ($v_e i \leftrightarrow o$) | a)  ≥ 125 b)  ≥ 125 |     |
|  3 Soft | F-B90  ...00  01  02  | EI 60 ($v_e h_o i \leftrightarrow o$) S EI 90 ($v_e h_o i \leftrightarrow o$) S | a)  ≥ 125 b)  ≥ 125 c)  ≥ 125 $\geq 620 \text{ (kg/m}^3\text{)}$ |     |
| | F-B90  ...11  22  | EI 60 ($v_e i \leftrightarrow o$) S EI 90 ($v_e i \leftrightarrow o$) S EI 120 ($v_e i \leftrightarrow o$) | a)  ≥ 125 b)  ≥ 125 |     |
|  3F Fit | F-B90  ...00  01  02  | EI 60 ($v_e i \leftrightarrow o$) S EI 90 ($v_e i \leftrightarrow o$) S | a)  ≥ 125 |     |
| | F-B90  ...11  22  | EI 60 ($v_e i \leftrightarrow o$) S EI 90 ($v_e i \leftrightarrow o$) S EI 120 ($v_e i \leftrightarrow o$) | a)  ≥ 125 |     |

Legend:

1.Wet - Wet Installation, Using Plaster/Mortar/Concrete Filling

3.Soft - Soft Installation, Using Mineral Wool filing

3F.Fit - Using Mineral Wool filing with no gap

a) - Flexible (plasterboard) wall

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

c) - Concrete/cellular concrete (rigid) floor/ceiling

v_e - Vertically oriented damper

h_o - Horizontally oriented damper

Assessment of F-B90

| Property | Test regulation | Classification standard | Technical specification for assessment | Performance expressed | Evaluation |
|---|-----------------------|-------------------------|--|---|------------------|
| Nominal activation /Sensing element conditions /sensitivity | ISO 10294-4 | / | EN 15650 4.2.1.2 4.2.1.2.2 4.2.1.2.3 | • load-bearing capacity in accordance with ISO 10294-4, 4.2; • response temperature in accordance with ISO 10294-4, 4.2; | Satisfied |
| Response delay (response time) | EN 1366-2 | / | EN 15650 4.2.1.3 | • closure time within time period of 2 minutes | Satisfied |
| Operational reliability | EN 1366-2 cl. 10.2 | / | EN 15650 4.3.1 a) | 50 cycles | Satisfied |
| Fire resistance • integrity • insulation • smoke leakage • mechanical stability | EN 1366-2 | EN 13501-3 + A1 | EN 15650, cl. 4.1.1, a), cl. 4.1.1 b), cl. 4.1.1 c), cl. 4.1.1 a), | See installation Table 9. | Satisfied |
| Fire resistance • maintenance of cross-section | EN 1366-2 | EN 13501-3 + A1 | EN 15650, cl. 4.4.1 a) | See installation Table 9. | Satisfied |
| Durability of response delay | ISO 10294-4 | / | EN 15650 4.3.3.1 | Durability of response delay (by tested temperature response and load-bearing capacity) is preserved. | Satisfied |
| Durability of operational reliability | EN 15650 Annex C | / | EN 15650 4.3.3.2 | 10 000 cycles for actuator mechanism 20 000 cycles for MOD actuator mechanism 50 cycles - for manual mechanism | Satisfied |

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, August 24, 2021


Ing. Maroš Chlebo, Managing Director