

# Declaration of Performance

Number: DeclarationOfPerformance\_F-R60\_A\_EN

## 1. Unique identification code of the product

F-R60

## 2. Type

Systemair Fire Damper F-R60

## 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

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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 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

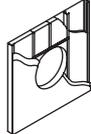
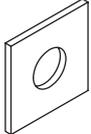
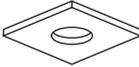
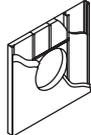
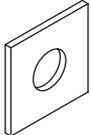
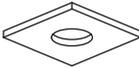
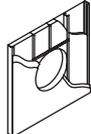
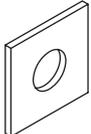
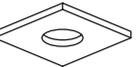
Notified person performed in system 1 the determination of the product type based on type testing (including sampling) and descriptive documentation of the production initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation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



1396 - CPR - 0196

## 9. Declared performance:

### Installations:

 1 Wet	F-R60 DN100 ... DN400	EI 60 ( $v_e - i \leftrightarrow o$ ) S	a)  $\geq 100$ mm	b)  $\geq 100$ mm	 360°
		EI 90 ( $h_o - i \leftrightarrow o$ ) S	c)  $\geq 125$ mm ( $\geq 620$ kg/m <sup>3</sup> )		
 3 Soft	F-R60 DN100 ... DN400	EI 60 ( $v_e - i \leftrightarrow o$ ) S	a)  $\geq 100$ mm	b)  $\geq 100$ mm	 360°
		EI 60 ( $h_o - i \leftrightarrow o$ ) S	c)  $\geq 125$ mm ( $\geq 620$ kg/m <sup>3</sup> ) $\geq 110$ mm ( $\geq 2200$ kg/m <sup>3</sup> )		
 3H Hilti	F-R60 DN100 ... DN400	EI 60 ( $v_e - i \leftrightarrow o$ ) S	a)  $\geq 100$ mm	b)  $\geq 100$ mm	 360°
		EI 60 ( $h_o - i \leftrightarrow o$ ) S	c)  $\geq 125$ mm ( $\geq 620$ kg/m <sup>3</sup> )		

### Legend:

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

**3.Soft** - Soft Installation, Using Mineral Wool filing

**3H.Hilti** - Filling made only from Hilti foam

**a)** - Flexible (plasterboard) wall

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

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

$v_e$  - Vertical wall

$h_o$  - Horizontal floor/ceiling

## Assessment of F-R60

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;	<b>Satisfied</b>
Response delay (response time)	EN 1366-2	/	EN 15650 4.2.1.3	• closure time within time period of 2 minutes	<b>Satisfied</b>
Operational reliability	EN 1366-2 cl. 10.2	/	EN 15650 4.3.1 a)	50 cycles	<b>Satisfied</b>
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.	<b>Satisfied</b>
Fire resistance • maintenance of cross-section	EN 1366-2	EN 13501-3 + A1	EN 15650, cl. 4.4.1 a)	See installation Table 9.	<b>Satisfied</b>
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.	<b>Satisfied</b>
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 NPD - for manual mechanism	<b>Satisfied</b>

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, March 16, 2021

  
Ing. Maroš Chlebo, Managing Director