

Number: DeclarationOfPerformance_FDS-3G_A_EN_Koolair

1. Unique identification code of the product

FDS-3G (Valid for subtypes: FDS-3G...KS)

2. Type

Fire Damper

3. Intended use of the construction product

Device for use in HVAC systems at fire boundaries to maintain compartmentation.

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

SAFEAIR S.L. (GRUPO KOOLAIR)

Polígono San Isidro. 45223 - Seseña – Toledo - España

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 / Sistema 1

7. Harmonized product standard, test standard, classification standard

EN 15650:2010

8. Identification number of the notified body

1396

Name and address of the notified person

FIRES s.r.o.,




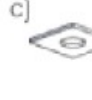


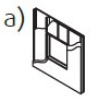
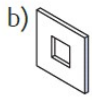
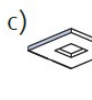
















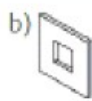



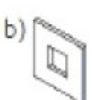
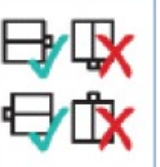
Osloboditeľov 282, 059 35 Batizovce, Slovakia

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:







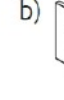



Declaration of Performance (DdP)

9. Declared performance

 1 Wet	FDS-3G 100 x 100 1200 x 800 (Subpressure: 300 Pa)	EI 60 ($v_o, h_o, i \leftrightarrow o$) S				 360°
		EI 90 ($v_o, h_o, i \leftrightarrow o$) S				
		EI 120 ($v_o, h_o, i \leftrightarrow o$) S				
 2 Dry	FDS-3G 100 x 100 1200 x 800	EI 60 ($v_e, h_o, i \leftrightarrow o$) S				 360°
		EI 90 ($v_e, h_o, i \leftrightarrow o$) S				
 3 Soft	FDS-3G 100 x 100 1200 x 800	EI 60 ($v_e, i \leftrightarrow o$) S			 360°	
		EI 90 ($v_e, i \leftrightarrow o$) S				
		EI 60 ($h_o, i \leftrightarrow o$) S				
		EI 90 ($h_o, i \leftrightarrow o$) S				
		EI 120 ($h_o, i \leftrightarrow o$) S				
 3H Hilti	FDS-3G 100 x 100 1200 x 800 (Subpressure: 300 Pa)	EI 60 ($v_e - i \leftrightarrow o$) S			 360°	
 5.1 On, Out	FDS-3G 100 x 100 1200 x 800 (Subpressure: 300 Pa)	EI 60 ($v_e - i \leftrightarrow o$) S				
		EI 90 ($v_e - i \leftrightarrow o$) S				
 5.2 On, Out	FDS-3G 100 x 100 1200 x 800 (Subpressure: 300 Pa)	EI 60 ($v_e - i \leftrightarrow o$) S				
 5.3 On, Out	FDS-3G 100 x 100 1200 x 800 (Subpressure: 300 Pa)	EI 60 ($v_e - i \leftrightarrow o$) S				
		EI 90 ($v_e - i \leftrightarrow o$) S				

Declaration of Performance (DdP)

 5.4 On, Out	FDS-3G 100 x 100 1200 x 800 (Subpressure: 300 Pa)	EI 60 (v _e - i ↔ o) S	a) 	b) 	
 4 Kit	FDS-3G...KS 100 x 100... ... 800 x 600 (Subpressure: 500 Pa)	EI 60 (v _e i ↔ o) S	a) 	b) 	 360°
		EI 90 (v _e i ↔ o) S			
		EI 120 (v _e i ↔ o) S			

Legend:

1. **Wet** - Wet Installation, Using Plaster/Mortar/Concrete Filling .
 2. **Dry** - Dry Installation, using cover boards and mineral wool filling.
 3. **Soft** - Soft Installation, using mineral wool filing.
 - 3H. **Hilti** - Filling made only from Hilti foam.
 4. **Kit** - Kit Installation, using an Installation Kit (subtypes: FDS-3G...KS).
 - 5.1. **On & Out** - ON & OUT of the wall installation rated for EI90S, Using 2 layers of Mineral Wool.
 - 5.2. **On & Out** - ON & OUT of the wall installation rated for EI60S, Using 1 layer of Mineral Wool.
 - 5.3. **On & Out** - ON & OUT of the wall installation rated for EI90S, Using Promat board.
 - 5.4. **On & Out** - ON & OUT of the wall installation rated for EI60S, Using Promat Board and Mineral Wool.
- 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 FDS-3G and subtype FDS-3G...KS

Property	Test regulation	Classification standard	Technical specification for assessment	Performance	Evaluation
Nominal activation ISO 10294-4 /Sensing element conditions /sensitivity			/ EN 15650 4.2.1.2 4.2.1.2.2 4.2.1.2.3	<ul style="list-style-type: none"> load-bearing capacity in accordance with ISO 10294-4, 4.2; <ul style="list-style-type: none"> response temperature in accordance with ISO 10294-4, 4.2;	Satisfied
Response delay (response time)	EN 1366-2	/	EN 15650 4.2.1.3	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 50 cycles - for manual mechanism	Satisfied

Declaration of Performance (DdP)

Electrical equipment in actuating mechanism:

Type Of Control	Equipment/actuator
Manual Crank (H0, H2, H5-2; H6-2):	Microswitch: 125/250 AC or 12/24 DC Electric Parameters: 3A Electromagnet: 24 AC/DC 230V in Impulse connection
Actuator Belimo (B...):	BFL24-SR-T, BF230-T, BF24-T, BFN230-T, BFN24-T, BFN24-T, BFL230-T, BFL24-T, (also with connection possibilities with acronyms ST, W)

Tightness class according to EN 1751:

Product type /Sutype and/ or size range	Achieved class at pressure
FDS-3G; FDS-3G .. KS	Casing class "C" up to 500 Pa 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:

Móstoles, 10 / 07 / 2023

José Tomás Susarte, Director General