



BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION

Founders : BBRI and SECO
Accredited certification body n° 021

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EC-CERTIFICATE OF CONFORMITY

0749 – CPD

BC1 - 606 - 4645 - 15650.04 - 4651

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993 and Regulation (EC) No 1882/2003 of the European Parliament and of the Council of 29 September 2003, it is stated that the factory made fire dampers used for building equipment and industrial installations

Productname

Circular fire dampers "FKRS-EU"

Placed on the market by

TROX GmbH
Heinrich-Trox-Platz
DE - 47504 NEUKIRCHEN-VLUYN

And produced in the factory

TROX - Werk Anholt
Gendringer Strasse 85
DE - 46419 ISSELBURG-ANHOLT

are submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan. The approved body BCCA has checked the initial type-testing reports for the relevant characteristics of the product as listed on pages 2 and 3 of this certificate, the initial inspection of the factory and the factory production control and performs the continuous surveillance, assessment and approval of the factory production control. This certificate attests that all provisions under the responsibility of the approved body concerning the attestation of conformity and the performances described in annex ZA of the standard

EN 15650 : 2010

were applied and that the factory production control systems fulfils the prescribed requirements.

This certificate was first issued on **01/09/2012** and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly and latest on **01/09/2017**. The validity of this certificate shall be confirmed by BCCA once a year. On any substantiated request, BCCA will give information about the validity of the certificate.

Brussels, 27/02/2013



ir. Benny De Blaere
General Manager

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FKRS-EU

Single blade circular fire damper

Release mechanism and actuators

- Fusible link 72°C / 95°C (optional: powder coated), closing spring
- Belimo BLF-T(-ST)-TR general purpose actuator with release mechanism 72°C / 95°C

Fire resistance according to EN 1366-2 and classification according to EN13501-3:

- Maintenance of the cross section (under E)
- Integrity E
- Insulation I
- Smoke leakage S
- Mechanical stability (under E)

Range	Type	Wall	Sealing	Classification
Ø 100 up to Ø 315 [mm]	Rigid floor	Aerated concrete min. 150 mm, reduced casing distances 45 mm	In the floor with mortar (wet mounting)	EI 120 (h _o i↔o) S - (300 Pa)
		Aerated concrete min. 150 mm	In the floor installation kit (dry mounting)	EI 90 (h _o i↔o) S - (300 Pa)
	Rigid wall	Aerated concrete min. 100 mm, reduced casing distances 40 mm, reduces distance to supporting constructions 40 mm	In the wall with mortar (wet mounting)	EI 120 (v _e i↔o) S - (300 Pa)
		Aerated concrete min. 100 mm	In the wall installation kit (dry mounting)	EI 90 (v _e i↔o) S - (300 Pa)
			Onto a wall, dry mounting	EI 90 (v _e i↔o) S - (300 Pa)
	Flexible wall	Metal stud gypsum plasterboard GKF min. 100 mm, with or without mineral wool	In the wall with mortar (wet mounting)	EI 90 (v _e i↔o) S - (300 Pa)
			In the wall installation kit (dry mounting)	EI 90 (v _e i↔o) S - (300 Pa)
		"Brandwand" - Metal stud partition min. 115 mm, with steel plates	In the wall With mortar (wet mounting)	EI 90 (v _e i↔o) S - (300 Pa)
			In the wall Installation kit (dry mounting)	EI 90 (v _e i↔o) S - (300 Pa)

Remark: In no case the classification of the damper can be higher than the classification of the wall/floor it is installed. In that case the classification of the fire damper is reduced to the classification of this wall/floor.

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Range	Type	Wall	Sealing	Classification
Ø 100 up to Ø 200 [mm]	Flexible wall	Metal stud gypsum plasterboard GKF min. 100 mm with mineral wool	In the wall with mortar (wet mounting)	EI 120 ($v_e i \leftrightarrow o$) S - (300 Pa)
			In the wall installation kit (dry mounting)	EI 120 ($v_e i \leftrightarrow o$) S - (300 Pa)
Ø 100 up to Ø 315 [mm]	Shaft-wall	Metal stud shaftwall, one side plated min. 90 mm, 2 x 20 mm GKF	In the wall with mortar (wet mounting)	EI 90 ($v_e i \leftrightarrow o$) S - (300 Pa)
			In the wall installation kit (dry mounting)	EI 90 ($v_e i \leftrightarrow o$) S - (300 Pa)

Remark: In no case the classification of the damper can be higher than the classification of the wall/floor it is installed. In that case the classification of the fire damper is reduced to the classification of this wall/floor.

Nominal activation conditions/sensitivity according to ISO 10294-4: - sensing element load bearing capacity - sensing element response temperature	Pass
Response delay (response time) according to EN 1366-2: - closure time	Pass
Operational reliability according to EN 1366-2: - cycling	Pass
Durability of response delay according to ISO 10294-4: - sensing element response temperature and load bearing capacity	Pass
Durability of operational reliability according to EN 15650: - open and closing cycle BLF-T(-ST)-TR:	10 000 cycles – passed
Protection against corrosion according to EN 60068-2-52:	NPD
Damper blade leakage according to EN 1751:	Class 3
Damper casing leakage according to EN 1751:	Class C