

Certificate
No. MPA-BS 6000/043/19

Product

Rectangular fire dampers for the protection against fire propagation through ventilation ducts for at least 90 min with an applicable range of dimensions (width x height) of 200 mm x 200 mm to 1,500 mm x 800 mm
Trade name: Type FK-EU

Supplier

TROX GmbH
Heinrich-Trox-Platz
D-47504 Neukirchen-Vluyn
Germany

Tests of resistance to fire

The fire dampers were tested on the basis of EN 1366-2 and EN 1363-1 while being installed in various types of walls and ceilings and with different distances one from another, if more than one was tested. Performance parameters were integrity, insulation and smoke leakage of the fire dampers for test periods from 90 min to ≥ 120 min.

Note: Details on the application of the fire dampers are given in the application guidance in an annex to this certificate.

Certification procedure

The product has been assessed against the requirements of the MPA General Requirements for Certification of Fire Protection Products on the basis of test reports and detailed expert opinions; reference was made to ISO/IEC 17067 type 1a.

MPA Braunschweig runs accredited test laboratories according to ISO/IEC 17025 and an accredited certification body according to ISO/IEC 17065.

Validity

This certificate consists of two pages. It was first issued on 25-03-2015 and shall be valid until the 21-05-2024 as a maximum, provided that the product is not subject to changes.

Braunschweig, 22-05-2019

Dr.-Ing. Hinrichs
Head of Certification

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APPLICATION GUIDANCE ON THE INSTALLATION OF FIRE DAMPERS TYPE FK-EU

Fire resistance

As regards the integrity, the insulation and the smoke leakage the fire resistance of the fire dampers were tested successfully for at least 90 min or up to ≥ 120 min.

Installation

The fire dampers may be installed

- in non-load-bearing solid walls with a thickness of ≥ 100 mm using mineral mortar and/or mineral wool for fixation/gap filling or
- in a metal post and beam construction with a smooth transition to the ceiling connection with a thickness of ≥ 50 mm to 200 mm without mineral wool for gap filling or
- in a shaft wall without studs with a thickness of ≥ 40 mm and mineral wool as a gap filling.

When installed in a ceiling its thickness shall be at least 125 mm.

The fire dampers may be installed in non-load-bearing metal post and beam constructions made of a double layer of paneling to be used as fire walls. In these cases the thickness of the wall shall be between 100 mm and 142 mm for single fixture mounting or between 142 mm and 242 mm for double fixture mounting.

The minimum distance between a fire damper and a load-carrying construction element (wall or ceiling) shall be at least

- 75 mm for solid walls with a thickness of ≥ 100 mm or
- 40 mm for solid walls with a thickness of ≥ 125 mm.

In case of a shaft wall without studs the minimum distance between a fire damper and a load-carrying construction element shall be at least 75 mm.

When installed in a corner the minimum distance to a load-carrying construction element shall be at least 40 mm.

The minimum distance between two fire dampers installed in a solid wall may be reduced to 0 mm (i.e. flange-to-flange), if the fire dampers are part of two separated ventilation ducts.

If installed with a surrounding gap filled with mortar the distance shall be at least 100 mm.

In case of a shaft wall without studs the minimum distance between two fire dampers shall be at least 200 mm.

When installing more than two fire dampers in a wall or ceiling it must be ensured that the supporting and load-transmitting profiles or construction elements resist fire for at least 90 min.

The release mechanism of the fire dampers may be installed either inside or outside the fire zone.

Manufacturer's manual

The assembled construction is installed with the appropriate wall or ceiling connections according to the detailed prescriptions in the manual of the manufacturer.

Personnel

Prior to assembly and installation the personnel must be instructed.

----- End of the certificate -----

