TROX® TECHNIK
The art of handling air

Fire dampers

▶ The TOP 3 ▶▶

New applications for the FK-EU fire damper



CE

▶ CE-certified fire protection solutions for the whole of Europe ▶▶









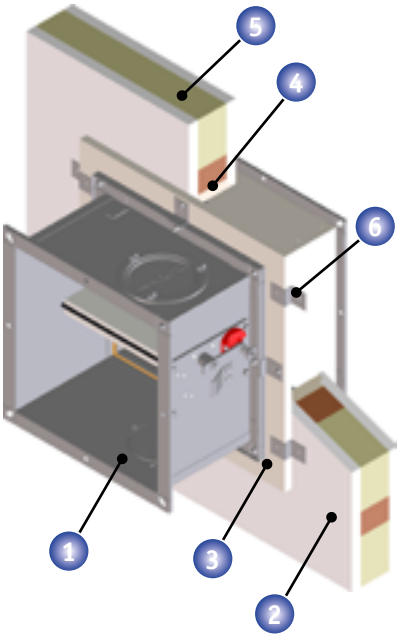
New applications for the classic, tried-and-tested solution!

The rectangular FK-EU-type fire dampers are used for the isolation of duct penetrations between fire compartments; they come in many different sizes and construction variants for a variety of installation situations. Certified for years, they guarantee maximum security in a wide range of buildings. What is new is that the FK-EU has just been tested and approved for several new applications.

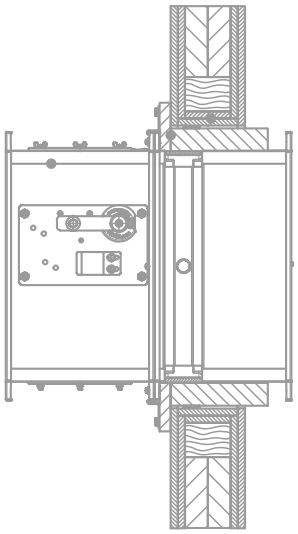
1. The all-rounder: timber studs, timber frames, half-timbered constructions

Renewable energies and sustainable constructions are not just buzzwords; they are becoming more and more important in our everyday business. As a result, timber stud constructions are also becoming a major topic. The market is seeing constant growth across the Federal Republic of Germany – and at the head of this growth is South Germany. In order to meet these new requirements, we at TROX have now had the tried-and-tested fire dampers tested for installation in the most common timber lightweight partition wall. And the results have been extremely successful – FK-EU is now EI90S-certified for:

– Every type of construction:
  timber studs, timber frames and half-timbered constructions
– Every installation type: dry, wet or with a fire batt



1. *FK-EU*
2. *Timber stud wall*
3. *Installation kit ES*
4. *2-layer trim panels*
5. *Mineral wool depending on wall construction*
6. *Retaining plate*

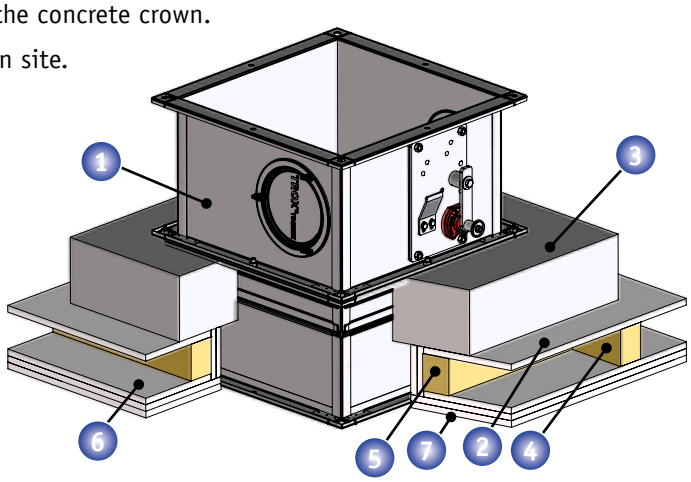


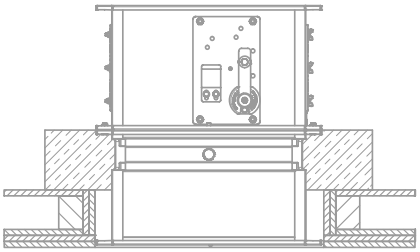
For more information on possible applications and technical information, see www.troxtechnik.com

2. The smart solution: wooden beam ceilings

You often find wooden beam ceilings in new builds and especially refurbishments. The problem is that there are many different types of ceiling. In theory, meeting the relevant requirements also requires many different tests for fire dampers. TROX has, however, certified an intelligent solution: the part of the fire damper which is above the ceiling is cast in a piece of concrete such that a small solid ceiling slab is created around the damper. This solution can be used for almost all fire-rated ceilings; the combination of a solid ceiling slab with a wooden beam ceiling has been tested and certified. It's as simple and clever as this:

– Form the concrete crown.
– Cast on site.
– Done!



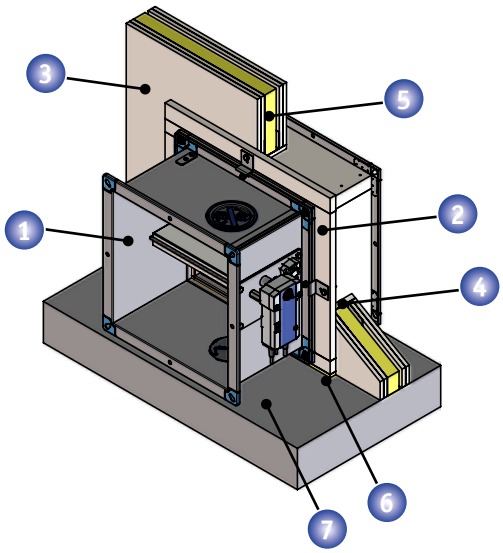


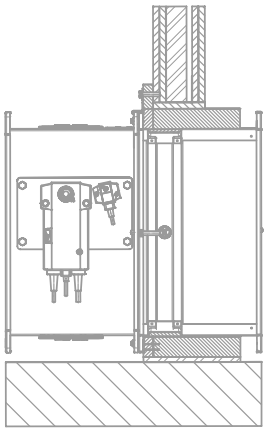
1. *FK-EU*
2. *Wooden floorboard / floor tile*
3. *Reinforced concrete*
4. *Timber beams*
5. *Timber beam joist*
6. *Formwork*
7. *Fire prevention cladding*

3. The space-saving solution: installation near the ground/ceiling with the dry mortarless installation kit

Fire dampers in lightweight partition walls are a standard application. This application may pose difficulties if there are space constraints or if the original design of the building changes. In the case of mortar-based installation, a reduced distance to ceilings and floors was approved a long time ago. Now TROX has also received approval for dry mortarless installation with reduced distances. The part of the installation kit that faces the ceiling or floor has to be removed, and the gap between the damper and the trim panel has to be sealed using mineral wool, for example. The ideal solution:

– Space saving, as can be used in gaps of just 40–45 mm
– Quick and flexible for dry construction





1. *FK-EU*
2. *Installation kit ES*
3. *Lightweight partition wall*
4. *Optional trim panels*
5. *Mineral wool depending on wall construction*
6. *Uneven flooring evened out (e.g. gypsum mortar, mineral wool >1000 °C)*
7. *Solid floor*







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