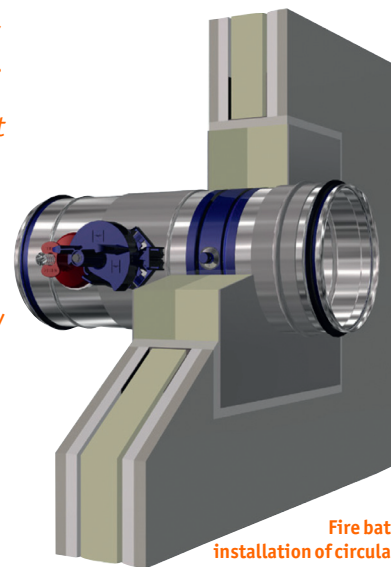


CE-certified solutions

FIRE BATTS FOR FIRE DAMPERS

In the past, openings for the installation of fire dampers in solid walls or ceiling slabs had to be of the exact size; only minimal tolerances were allowed, if at all. This has changed with fire batt solutions as they provide a new level of flexibility. With a fire batt, fire dampers can in fact be installed in openings that are much larger than the fire damper casing - the perimeter gap may be up to 400 mm wide. It is no longer a strict requirement that an installation opening fits the fire damper exactly. Other advantages are the lower weight, which is particularly relevant for installations above doors, and the insulation from structure-borne noise due to the excellent acoustic properties of the mineral wool. Finally, fire dampers installed with a fire batt can be removed without any drilling and chiseling if the need arises.



Fire batt installation of circular and rectangular fire dampers in stud walls.

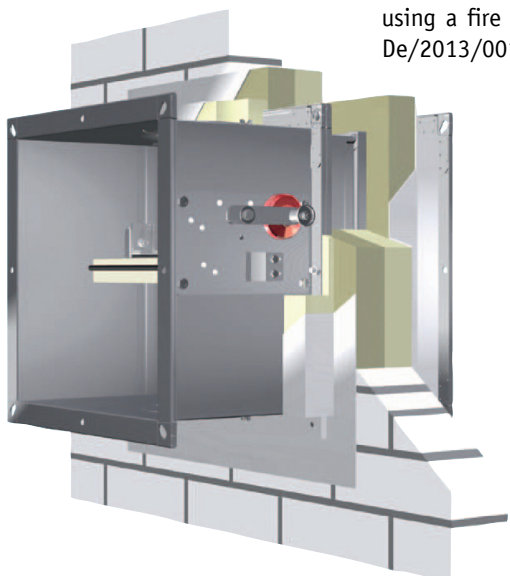
Certified safety products for Europe

According to the EN 15650 product standard the CE marking is proof that this type of installation meets the high requirements of the EN 1366-2 testing standard. This means that the way is clear for installing fire dampers with fire batts in all EU member states. In some countries fire batts have already been used for a number of years and are a proven installation method for fire dampers whereas in Germany this technique has so far only been used for pipes and cables.

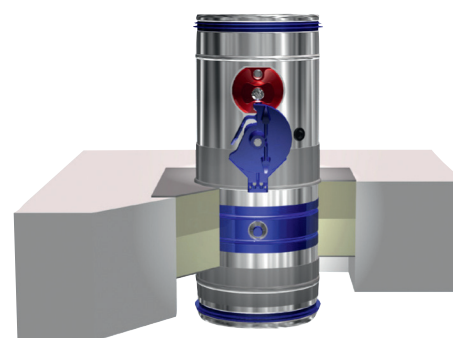
For the TROX fire dampers of Type FK-EU and Type FKRS-EU, using a fire batt to insulate the gap between the surrounding structure and the fire damper casing has been tested to EN 1366-2, and the dampers have been classified up to EI 120 S according to EN 3501-3.

On 1 July 2013, the Construction Products Regulation, or CPR, became effective in all EU member states. The CPR requires that each fire damper is provided with a Declaration of Performance; products without such a Declaration must not be placed on the European market. TROX fire dampers are provided with Declarations of Performance for all installation situations, including installation using a fire batt. These documents (DoP/FK-EU/De/2013/001 and DoP/FKRS-EU/DE/2013/001) ensure a high level of security to specialist consultants and HVAC contractors.

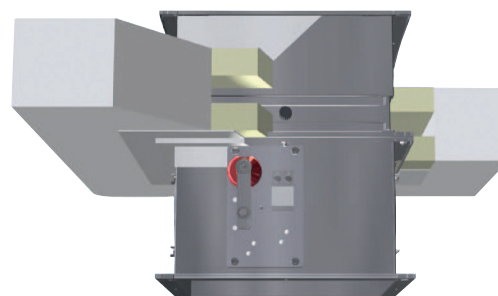
Fire batt installation of circular and rectangular fire dampers in solid walls.



Fire protection has always been considered highly important at TROX, and the International Center for Fire Protection (ICB) in Neukirchen-Vluyn proves it. This testing, research and development facility is the most advanced of its kind. The heart of the ICB is a furnace with 20 burners and close to 9 MW capacity, where tests to the EN 1366-2 testing standard are performed. The use of fire batts for fire dampers was also tested at the ICB.



Fire batt installation of FKRS-EU in ceiling slabs.



Fire batt installation of FK-EU in ceiling slabs.

Installation of fire dampers

A fire batt is a widely used type of insulation. It is basically a mineral wool slab, coated with an intumescent material. This type of insulation has long been known and used for pipes and cables. Fire dampers are installed with two mineral wool slabs, each 50 mm thick, to provide a minimum thickness of 100 mm for walls and ceilings. When fire batts are used in ceilings, it is recommended to install the two 50 mm slabs on both sides flush with the ceiling slab to create an even surface and prevent dust and contamination from depositing in a recess. The size of an installation opening may be up to 800 mm larger than the nominal size of the fire damper. The fire dampers are installed with a perimeter gap of 50 mm to 400 mm. Both the FK-EU and the FKRS-EU fire dampers can be used for numerous installation situations with a fire batt: in horizontal or vertical ducts, independent of the airflow direction; in solid walls or ceiling slabs; in fire walls made of concrete, aerated concrete, or masonry; in gypsum wallboards to EN 12859; or in stud walls with cladding on both sides.

Flexible design – efficient installation

Fire batts are a very flexible installation variant that complements the already extensive installation options for fire dampers. They also allow for more flexibility with regard to the order in which the installation steps have to be performed.

A fire batt can be added at any time during duct installation and need not be fixed beforehand.



Source: TROX GmbH, Neukirchen-Vluyn

The highly rigid, coated mineral wool slabs are easy to fix and use as they can be simply cut to size.



Fire batts: Measure, cut to size, mount, coat - ready to use!

This results in a continuous and more cost-efficient installation. By using fire batts, customers in Europe will benefit from considerably increased flexibility when planning and actually cutting installation holes into walls and ceiling slabs. For more information, including information on other installation variants, please refer to the technical leaflets and installation manuals available at www.troxtechnik.com.

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Advantages at a glance:

'Fire batt' refers to highly rigid mineral wool slabs with a fire-resistant coating that are used in walls and ceiling slabs.

- Easy to mount even in asymmetric openings
- Easy to transport and ready for use
- Easy handling and mounting
- Excellent cutting properties, produces clean cuts

TROX fire dampers:

- CE-certified
- Class of performance to EN 13501-3, up to EI 120 S
- Installation in openings which may be up to 400 mm (perimeter) in excess of the size of the fire damper casing
- Installation in asymmetric openings is possible