



CLASSIFICATION REPORT

Classification report on fire resistance performance in acc. with EN 13501-3: 2009

Report No.: 317111402-A-en,Rev1

Date: 04/09/2024

This classification report replaces report no. 317111402-A-en dated 03/04/2018

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EXT: 883

Customer:

FLAMRO Brandschutz-Systeme GmbH
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Prepared by:

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Product name:

Soft penetration seal with fire dampers
Penetration seal type: FLAMMOTECT-A

Brief assessment:

In compliance with EN 13501-3, the above building element
is assigned fire resistance class **EI 90 S (ve, ho)** with regard
to its fire resistance performance.

This Classification Report contains **6** pages and shall not be utilized or reproduced wholly
or in part.





1. Introduction

This Classification Report defines the fire resistance classification assigned to the building component, soft penetration seal with fire dampers of type FLAMMOTECT-A, intended for installation with fire dampers in accordance with the procedures given in EN 13501-3:2009.

2. Details of classified product

2.1. Function

The building product, soft penetration seal with fire dampers of type FLAMMOTECT-A, is defined as being a penetration seal of fire dampers. The function of the element is to resist fire with regard to its fire integrity, heat insulation and smoke leakage.

2.2 Description

The penetration is closed by means of the soft sealing system with fire dampers, FLAMMOTECT-A, which consists of two mineral fibre boards (type: Rockwool Hardrock 040) pre-coated with a 1 mm dry layer of FLAMMOTECT-A coating each 50 mm thick with a density of 150 kg/m³ and a size of max. 1900 x 1400 mm or 1400 x 1900 mm. The distance between the fire damper and the penetration of the structural element is 40 mm – 400 mm. The transitions between the mineral fibre boards and the supporting structure or between the mineral fibre boards and the fire damper were provided with the filler FLAMMOTECT-A and the coating FLAMMOTECT-A.

The tests of this penetration sealing system were carried out with Trox fire dampers of types FK-EU and FKRS-EU (Trox GmbH, Heinrich-Trox-Platz, D-47504 Neukirchen-Vluyn).



3. Test reports and test results in support of classification

3.1. Test reports

	Type	Name of testing lab ¹	Name of customer	Test Report No. date	E	I	S	Orientation (i ↔ o)	Alignment (ho, ve)
1	FK-EU 1500x800	IBS	svt	316113002-1 of 16.11.2017	134	115	122	(i ↔ o)	ho
	FKRS-EU NW				134	96	92	(i ↔ o)	
2	FKRS-EU NW 315	IBS	svt	316113004-1 of 21.08.2017	132	97	132	(i ↔ o)	ve
	FK-EU 1500x800				132	100	132	(i ↔ o)	

¹ Name/Address of testing lab:

IBS: IBS-Institut für Brandschutztechnik und Sicherheitsforschung Gesellschaft m.b.H., Petzoldstraße 45, 4020 Linz

² Name/Address of customer:

svt: svt Brandschutz Vertriebsgesellschaft mbH International, Glüsinger Straße 86, D-21217 Seevetal

3.2. Resistance to fire performance:

Table 1: : Terms of loading

Temperature-time curve:	Standard temperature-time curve as specified in clause 5.1.1 of OENORM EN 1363-1:2000, section 5.1.1
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4. Classification and direct field of application

4.1. Classification reference

The classification is established in compliance with clause 7 of EN 13501-3:2007 + A 1:2009.

4.2. Classification:

Fire resistance classification:

Classification for soft penetration seal with fire dampers of type - FLAMMOTECT-A:

Type	max. size in mm	Assembly	Alignment	E	I	Orientation	S
FKRS-EU	315	Soft seal	ho,ve	90	90	(i ↔ o)	90
FK-EU	1500 x 800	Soft seal	ho,ve	90	90	(i ↔ o)	90

4.3. Field of application

This Classification shall be valid in the following practical applications (end-use applications) of the soft penetration seal with fire dampers of type FLAMMOTECT-A installed with Trox fire dampers of types FK-EU (FK-K90) and FKRS-EU (Trox GmbH, Heinrich-Trox-Platz, D-47504 Neukirchen-Vluyn). Installation details for each fire damper type are available in the installation guides.

4.3.1. Fire damper sizes

The svt soft penetration seal with fire dampers of type FLAMMOTECT-A may be applied in fire dampers up to 1500 x 800 mm and penetration sizes up to 1900 x 1400 mm or 1400 x 1900 mm, but the distance between the fire damper and the penetration may only lie between 40 mm and 400 mm.

4.3.2. Fire dampers in structural penetrations

The penetration sealing system may only be installed in wall or ceiling assemblies.

4.3.3. Distance between fire dampers and between fire damper and loadbearing structural members

The test results based on fire tests of one or two fire dampers with a minimum distance of 200 mm shall find practical application to the following minimum distances:

- a) 200 mm between fire dampers in separate installations
- b) 75 mm between a fire damper and a loadbearing structural member



4.3.4. Distances between fire dampers and supporting structure

The distance (gap dimensions of soft seal) between fire damper and supporting structure may max. be 400 mm.

4.3.5. Supporting constructions

The svt soft penetration seal with fire dampers of type FLAMMOTECT-A may be used in standard supporting constructions (see EN 1366-2, charts 3-5) whose fire resistance duration is higher or the same as the one of the standard supporting construction used during fire testing (greater thickness, greater density, more sheets).

The svt soft penetration seal with fire dampers of type FLAMMOTECT-A may also be mounted into solid standard supporting constructions.

The minimum wall thickness for wall installation shall be 100 mm and for ceiling installation 150 mm.

5. Limitations

5.1. Validity

The validity expires if fundamental test or assessment criteria change and if the customer makes unauthorised technical changes that are not covered by the direct field of application.



5.2. Legal notice:

This document does not represent any type of approval or certification of the product.

**IBS-INSTITUT FÜR BRANDSCHUTZTECHNIK UND
SICHERHEITSFORSCHUNG GESELLSCHAFT M.B.H.
Akkreditierte Prüf-, Inspektions- und Zertifizierungsstelle**

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Monitoring

Change note:

- Rev1 of 04.09.2024:
- Customer has been changes
 - Validity restriction has been cancelled
 - Product name has been updated