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Authorised and notified  
according to Article 29 of the  
Regulation (EU)  
No 305/2011 of the European  
Parliament and of the Council  
of 9 March 2011

MEMBER OF EOTA



## European Technical Assessment ETA-20/1101 of 2020-12-11

### I General Part

**Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S**

**Trade name of the construction product:**

fischer FFB-ES FireBarr Elastoseal

**Product family to which the above construction product belongs:**

Fire Stopping, Fire Sealing & Fire Protective Products.  
Linear Joint and Gap Seals

**Manufacturer:**

fischerwerke GmbH & Co. KG  
Klaus-Fischer-Straße 1  
72178 Waldachtal  
Germany

**Manufacturing plant:**

fischerwerke GmbH & Co. KG

**This European Technical Assessment contains:**

11 pages including 3 annexes which form an integral part of the document

**This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:**

EAD 350141-00-1106 Linear Joint and Gap Seals, Issued September 2017

**This version replaces:**

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## 1 Technical Description of the Product

- 1) fischer FFB-ES FireBarr Elastoseal is an acrylic based sealant used to form linear gap seals where gaps are present in floor constructions.
- 2) fischer FFB-ES FireBarr Elastoseal is supplied in liquid form contained within 310 ml & 380ml cartridges, 600ml foils or in 5, 10, 20, 25 kg tubs or 250 litre drums. The sealant is gunned, trowelled or sprayed into the aperture in or between the separating element/elements to a specified depth utilising stone wool backing material.
- 3) fischer FFB-ES FireBarr Elastoseal is applied 1mm thick, on to the unexposed surface of 100mm thick, 80 kg/m<sup>3</sup> Stone Wool. The Stone wool is manufactured in accordance with EN13162:2001

## 2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The intended use of system fischer FFB-ES FireBarr Elastoseal is to reinstate the fire resistance performance of gaps in and joints between joints in rigid floor constructions.

- 4) The specific elements of construction that the system fischer FFB-ES FireBarr Elastoseal may be used to provide a gap or joint seal in, are as follows:

Rigid Floors:	The floor must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m <sup>3</sup> .
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Rigid Walls:	The wall must have a minimum thickness of 150 mm and comprise concrete, block, aerated concrete or masonry, with a minimum density of 650 kg/m <sup>3</sup> .
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The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

- 5) The system fischer FFB-ES FireBarr Elastoseal may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex C).
- 6) The maximum permitted joint/gap width for system fischer FFB-ES FireBarr Elastoseal is 200 mm.
- 7) The maximum movement capability of system fischer FFB-ES FireBarr Elastoseal is  $\leq 25\%$
- 8) The provisions made in this European Technical Assessment are based on an assumed working life of the fischer FFB-ES FireBarr Elastoseal of 10 years, provided that the conditions laid down in sections 4.2/5.1/5.2 for the packaging/transport/ storage/installation/use/repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

### Use Category

Type Z<sub>1</sub>: Intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0°C, without exposure to rain or UV.

### 3 Performance Of The Product And References To The Methods Used For Its Assessment

<b>BWR</b>	<b>Characteristic</b>	<b>Assessment of characteristic</b>
2	<b>Safety in case of fire</b>	
	Reaction to fire	See Clause 1.1
	Resistance to fire	See clause 1.2
3	<b>Hygiene, health and the Environment</b>	
	Air permeability	See clause 2.1
	Water permeability	See clause 2.2
	Dangerous substances	See clause 2.3
4	<b>Safety in use</b>	
	Durability and serviceability	see clause 3.1
5	<b>Protection against noise</b>	
	Airborne sound insulation	see clause 4.1

#### 3.1 Safety in case of fire

##### 3.1.1 Reaction to fire

fischer FFB-ES FireBarr Elastoseal is classified '**B-s1, d0**' in accordance with EN 13501-1 with the following field of application:

- Applications covered by this ETA
- Applied to stone wool with a minimum density of 80 kg/m<sup>3</sup>.
- Used in any substrate of class A2 or better, with a density of 870 kg/m<sup>3</sup> or higher.

##### 3.1.2 Resistance to fire

fischer FFB-ES FireBarr Elastoseal has been tested in accordance with BS EN 1366-4: 2006 based upon the test results and the field of direct application specified within EN 1366-4: 2006, the system fischer FFB-ES FireBarr Elastoseal has been classified in accordance with EN 13501-2, as given in Annex C:

The seals may only be used in the elements of construction described in Annex C and against the substrates described in Annex C.

Provisions shall be taken such that floor joint seals cannot be stepped on e.g. by covering with wire mesh or floor finishes.

#### 3.2 Hygiene, Health, and the Environment.

##### 3.2.1 Air Permeability

fischer FFB-ES FireBarr Elastoseal has been tested in accordance with BS EN 1314-1 to provide

the following results:

Product tested				
Pressure (Pa)	Results under positive chamber pressure		Results under negative chamber pressure	
	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> /h)	Leakage (m <sup>3</sup> /h)	Leakage (m <sup>3</sup> /m <sup>2</sup> /h)
50	0.1	0.1	1.0	1.4
100	0.3	0.4	1.1	1.5
150	0.6	0.8	1.5	2.1
200	0.8	1.1	0.9	1.3
250	1.1	1.5	1.3	1.8
300	1.2	1.7	1.7	2.4
450	2.4	3.3	3.5	4.9
600	4.5	6.3	5.3	7.4

### 3.2.2 Water permeability

Tests conducted in accordance with BS EN 1027: 2000. The results of the test were as follows:

Pressure (Pa)	Duration(mins)	Observations
50	15	No leakage observed
100	5	
150	5	
200	5	
250	5	
300	5	
450	3.50secs	A total duration of 48 mins 50 secs the right hand edge of the sample joint to subframe separated and began to allow water leakage of the sample

### 3.2.3 Content and release of Dangerous Substances

The applicant has presented a declaration that fischer FFB-ES FireBarr Elastoseal does not contain any substance of high concern with regards to REACH Regulations and are compliant with the requirements reference to <http://ec.europa.eu/enterprise/construction/cpd-ds/index.cfm>

Confirmation has further been declared that all dangerous chemical substances  $\geq 1.0$  % w/w as well as all toxic, carcinogenic, toxic for reproduction and mutagenic chemical substances  $\geq 0.1$  % w/w (Status: 29. adaption – 2004/73/EG – of the EU directive 67/548/EEC - classification, packaging and labeling of dangerous substances) are stated in the fischer FFB-ES FireBarr Elastoseal safety data sheets (according to 91/155/EEC including amendments) and have been considered for the classification of the products according to the directive 1999/45/EG

(classification of preparations, including amendments).

All dangerous chemical substances are below the classification limits of 67/548/EEC.

In addition to the specific clauses relating to dangerous substances contained in this European technical approval, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

### **3.1 Safety and accessibility in use**

#### **3.1.1 Durability and serviceability**

fischer FFB-ES FireBarr Elastoseal has been tested in accordance with EOTA Technical Report - TR024 – Edition November 2006, for the type Z<sub>1</sub> use category specified in EAD 350141-00-1106 Linear Joint and Gap Seals and the results of the tests have demonstrated suitability for penetration seals intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0°C, without exposure to rain or UV.

### **3.2 Protection against noise**

#### **3.2.1 Airborne sound insulation**

The results of the test provided the following single number rating:  $R_w (C;Ctr) = 33(0;-2)$

#### **4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base**

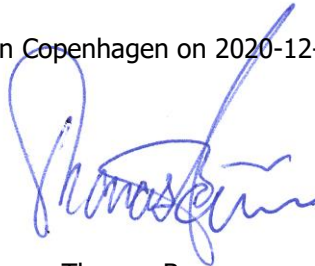
According to the decision 1999/454/EC of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) given in the following table apply:

<b>Products</b>	<b>Intended uses</b>	<b>AVCP System</b>
Fire stopping and fire sealing products	For fire compartmentation and/or fire protection or fire performance	System 1

#### **5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark A/S prior to CE marking

Issued in Copenhagen on 2020-12-11 by



Thomas Bruun

Managing Director, ETA-Danmark

## **Annex A**

### **Reference Documents**

EN 13501-1	Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests
EN 13501-2	Fire classification of construction products and building elements – Part 2: Classification using test data from fire resistance tests
EOTA TR 024	Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products



## **Annex B**

### **Description of Product and Product Literature fischer FFB-ES FireBarr Elastoseal**

A detailed specification of the product is contained in document "Evaluation Report" relating to the European Technical Assessment ETA –15/0203 issued on 29/04/15, of fischer FFB-ES FireBarr Elastoseal which is a non-public part of this ETA.

## Annex C

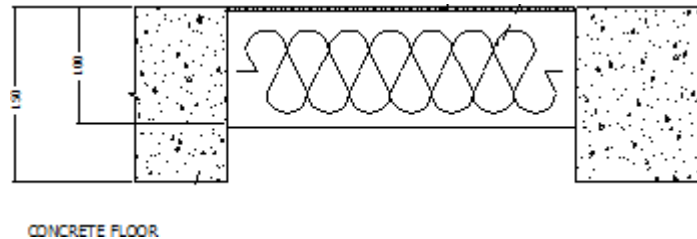
### Resistance to Fire Classification of fischer FFB-ES FireBarr Elastoseal

#### C1 Rigid floor constructions according to 2.2.1 with floor thickness of minimum 150 mm

##### C1.1 Linear joint or gap seal, horizontally orientated with sealant to the unexposed face.

Construction details:

- fischer FFB-ES FireBarr Elastoseal installed 1mm thick unexposed face of the seal
- Mineral fibre complying with EN13162:2010 or EN 14303:2010 Density 80kg/m<sup>3</sup>



##### C.1.1.1

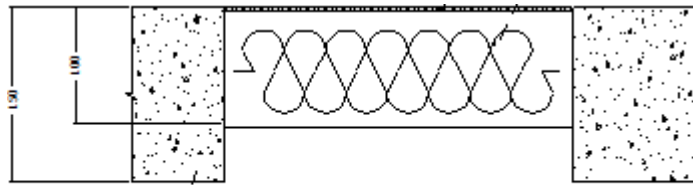
fischer FFB-ES FireBarr Elastoseal Linear Joint Seals in Rigid Floors 150 mm thick (min.)				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
1 mm DFT	Stone Wool (Flexi Batt P100) 100mm thick (80kg/m <sup>3</sup> ) Compressed 20%	AAC-AAC	Unexposed face	<b>E 240 EI 180– H – M25 – F – W 00-200</b>

## C.2 Rigid wall constructions according to 2.2.1 with wall thickness of minimum 150 mm

### C.2.1 Linear joint or gap seal, horizontally orientated with sealant to the unexposed face.

Construction details:

- fischer FFB-ES FireBarr Elastoseal installed 1mm thick unexposed face of the seal
- Mineral fibre complying with EN13162:2010 or EN 14303:2010 Density 80kg/m<sup>3</sup>



Concrete wall

#### C.2.1.1

fischer FFB-ES FireBarr Elastoseal Linear Joint Seals in Rigid Walls 150 mm thick (min.)				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
1 mm DFT	Stone Wool (Flexi Batt P100) 100mm thick (80kg/m <sup>3</sup> ) Compressed 20%	AAC-AAC	Unexposed face	<b>E 240 EI 180 – V – M25 – F – W 00-150</b>