

DECLARATION OF PERFORMANCE

DoP-FS-1004

for fischer FFB-ES FireBarr Elastoseal (Fire stopping and fire sealing products: Linear Joint and Gap Seals)

EN

1. Unique identification code of the product-type: DoP-FS-1004
2. Intended use/es: Maintenance of the integrity and insulation performance of one or more fire separating elements at linear discontinuities for a specified duration, see appendix, especially annexes 1.
3. Manufacturer: fischerwerke GmbH & Co. KG, Klaus-Fischer-Str. 1, 72178 Waldachtal, Germany
4. Authorised representative: -
5. System/s of AVCP: 1
6. European Assessment Document: EAD 350141-00-1106
European Technical Assessment: ETA-20/1101; 2020-12-11
Technical Assessment Body: ETA-Danmark A/S
Notified body/ies: 2531 – DBI Certification A/S
7. Declared performance/s:
Safety in case of fire (BWR 2)
Reaction to fire: B-s1, d0
Resistance to fire: Annexes 8-9

Hygiene, health and the environment (BWR 3)
Content, emission and/or release of dangerous substances: Annexes 3-4
Air permeability (material property): Annexes 2-3
Water permeability (material property): Annex 3

Safety and accessibility in use (BWR 4)
Mechanical resistance and stability: NPD
Resistance to impact/movement: NPD
Adhesion: NPD
Durability: Annex 4
Movement capability: NPD
Cycling of perimeter seals for curtain walls: NPD
Compression set: NPD
Linear expansion on setting: NPD

Protection against noise (BWR 5)
Airborne sound insulation: Annex 4

Energy economy and heat retention (BWR 6)
Thermal properties: NPD
Water vapour permeability: NPD
8. Appropriate Technical Documentation and/or Specific Technical Documentation: -

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Dr.-Ing. Oliver Geibig, Managing Director Business Units & Engineering
Tumlingen, 2020-12-18



Jürgen Grün, Managing Director Chemistry & Quality

This DoP has been prepared in different languages. In case there is a dispute on the interpretation the English version shall always prevail.

The Appendix includes voluntary and complementary information in English language exceeding the (language-neutrally specified) legal requirements.

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/m³ 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 ³ .
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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 ³ .
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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 Z₁: 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

BWR	Characteristic	Assessment of characteristic
2	Safety in case of fire	
	Reaction to fire	See Clause 1.1
	Resistance to fire	See clause 1.2
3	Hygiene, health and the Environment	
	Air permeability	See clause 2.1
	Water permeability	See clause 2.2
	Dangerous substances	See clause 2.3
4	Safety in use	
	Durability and serviceability	see clause 3.1
5	Protection against noise	
	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/m³.
- Used in any substrate of class A2 or better, with a density of 870 kg/m³ 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 ³ /h)	Leakage (m ³ /m ² /h)	Leakage (m ³ /h)	Leakage (m ³ /m ² /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 ≥ 1.0 % w/w as well as all toxic, carcinogenic, toxic for reproduction and mutagenic chemical substances ≥ 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 Z₁ 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:

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

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

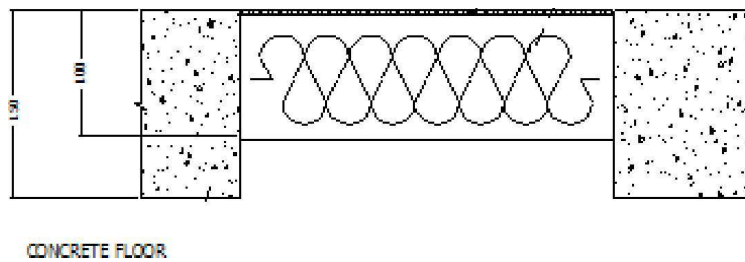
Resistance to Fire Classification of fischer FFB-ES FireBarr Elastoseal

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/m³



C.1.1.1

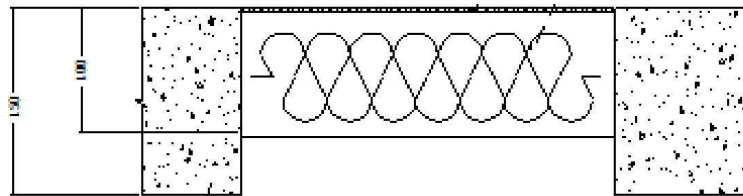
fischer FFB-ES FireBarr Elastoseal Linear Joint Seals in Rigid Floors 150 mm thick (min.)				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
1 mm DFT	Stone Wool (Flexi Batt P100) 100mm thick (80kg/m ³) Compressed 20%	AAC-AAC	Unexposed face	E 240 EI 180- H - M25 - F - W 00-200

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/m³



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 ³) Compressed 20%	AAC-AAC	Unexposed face	E 240 EI 180– V – M25 – F – W 00-150