

## DECLARATION OF PERFORMANCE

### DoP-FS-1018

for fischer FFB-ES Plus ElastoSeal (Fire stopping and fire sealing products: Penetration Seals)

EN

1. Unique identification code of the product-type: DoP-FS-1018
2. Intended use/es: Maintenance of the fire resistance of a separating element at the position where services pass through, see appendix, especially annexes, 1-4.
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 350454-00-1104  
European Technical Assessment: ETA-23/0164; 2023-11-28  
Technical Assessment Body: ETA-Danmark A/S  
Notified body/ies: 0800 - MFPA Leipzig
7. Declared performance/s:  
**Safety in case of fire (BWR 2)**  
Reaction to fire: D-s1, d1  
Resistance to fire: Annex 5  
  
**Hygiene, health and the environment (BWR 3)**  
Air permeability (material property): Annex 2  
Water permeability (material property): Annex 2  
Content, emission and/or release of dangerous substances: Annex 2  
  
**Safety and accessibility in use (BWR 4)**  
Mechanical resistance and stability: NPD  
Resistance to impact/movement: NPD  
Adhesion: NPD  
Durability: Annex 2  
  
**Protection against noise (BWR 5)**  
Airborne sound insulation: Annex 2  
  
**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, 2023-12-05



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.

## **II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT**

### **1 Technical description of the product**

fischer FFB-ES Plus is a one-part water based acrylic spray system used to reinstate the fire resistance performance of wall constructions where they have been provided with apertures for the penetration of single or multiple services.

fischer FFB-ES Plus is supplied in buckets and can be sprayed or troweled as a surface-mounted system on a suitable backing material with overlap as specified in Annex B of this document.

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

The intended use of fischer FFB-ES Plus is to reinstate the fire resistance performance of rigid wall constructions where they are penetrated by various cable supports and cables.

The specific elements of construction that the system fischer FFB-ES Plus may be used to provide a penetration seal in, are as follows:

#### **Rigid Walls:**

The wall must have a minimum thickness of 115 mm and comprise concrete, aerated concrete, or masonry, with a minimum density of 650 kg/m<sup>3</sup>.

The individual requirements for walls and floors are detailed in the respective systems in Annex B of this document.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

The fischer FFB-ES Plus may be used to provide a penetration seal with cables, and cable trays and ladders (for details see Annex B of this document).

fischer FFB-ES Plus is fire tested to EN 1366-3.

The use category of the fischer FFB-ES Plus is Type X: Intended for use in conditions exposed to weathering. The installation guidelines for fischer FFB-ES Plus in the technical datasheet accompanying this product must be followed.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the spray system of 25 years, provided that the conditions laid down in the product data sheet for the packaging/transport/storage/installation/use/repair are met.

The indications given on the intended 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 selecting the appropriate products in relation to the expected economically reasonable working life of the works.

### 3 Performance of the product and references to the methods used for its assessment.

#### Characteristic

#### Assessment of characteristic

#### 3.2 Safety in case of fire (BWR 2)

Reaction to fire

The product is classified as **D-s1, d1** in accordance with EN13501-1, and the EC Delegated regulation 2016/364/EU.

Resistance to fire

See **Annex B**

#### 3.3 Hygiene, Health and the Environment (BWR 3)

Air permeability

**No leakage at up to 600 Pa**

Water permeability

**No water penetration at up to 600 Pa**

Content, emission and/or release of dangerous Substances\*

Release scenario: **IA1**

	3 days [µg/m <sup>3</sup> ]	28 days [µg/m <sup>3</sup> ]
SVOC	0	0
VOC	< 5	< 5

#### 3.4 Safety and accessibility in use (BWR4)

Mechanical resistance and stability

**No performance assessed**

Resistance to impact/movement

**No performance assessed**

Adhesion

**No performance assessed**

Durability

Use category: **Type X**

#### 3.5 Protection against noise (BWR5)

Airborne sound insulation

**Rw (C; Ctr) = 44 (-4; -9) dB**

#### 3.6 Energy economy and heat retention (BWR6)

Thermal properties

**No performance assessed**

Water vapour permeability

**No performance assessed**

See additional information in section 3.8-3.9

\*) In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, 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.

### **3.8 Methods of verification**

The product is fully covered by EAD 350454-00-1104 Firestopping and fire sealing products, Penetration Seals as a coating, and fulfils the requirement for use category: X - Intended for use in conditions exposed to weathering. Products that meet requirements for type X, meet the requirements for all other types.

### **3.9 General aspects related to the fitness for use of the product.**

The European Technical Assessment is issued for the product based on agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide if such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The fischer FFB-ES Plus for firestopping and fire sealing purposes are manufactured in accordance with the provisions of this European Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

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

### **4.1 AVCP system**

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 Regulation (EU) No 305/2011) is: **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 prior to CE marking.

# Annex B

## Resistance to Fire Classification of fischer FFB-ES Plus

### B.1 Rigid wall construction with minimum thickness of 115 mm

#### B.1.1 Double sided penetration seal with cables supports (cable arrangement L)

<p><b>Penetration Seal:</b> Cable supports, and cables sealed with fischer FFB-ES Plus sealant to both sides of the wall, backed with stone wool insulation, rigid wall thickness <math>\geq 115</math> mm, flush with surface of wall</p>	
<p>Construction details:</p>	<p>Key:</p> <ol style="list-style-type: none"> <li>1. FiAM Plus</li> <li>2. Backing material</li> <li>3. Cable support</li> <li>4. Wall</li> </ol>

Figure not to scale

**Table B.1.1**

Type of penetrant	Cable type	Maximum aperture size	Sealant thickness	Seal overlap on penetrant	Backing material	Classification
Service option L	Sheathed cables / telecommunication cables / optical fibre cables up to a max. outer diameter of 80 mm with or without cable carrier	750 x 1100 mm	$\geq 1,6$ mm*	$\geq 13$ mm**	stone wool $\rho \geq 60$ kg/m <sup>3</sup> , $\geq 50$ mm thick from both sides**	E 45 EI 30

Minimum working clearance: Distance between cable / cable carrier and the aperture edge

b 1-1 – Distance between a cable/the cable carrier and the aperture edge – aside ( $\geq 50$ mm)

b 1-2 – Distance between a cable/the cable carrier and the aperture edge – above ( $\geq 50$ mm)

b 1-3 – Distance between a cable/the cable carrier and the aperture edge – underneath ( $\geq 50$ mm)

c 2 – Distance between a cable/cable carrier and other cables/cable carriers – underneath ( $\geq 250$ mm)

Cable support (with cable carrier)  $\leq 250$ mm form surface of specimen

Cable support (without cable carrier)  $\leq 150$ mm form surface of specimen

\* wet film thickness

\*\*  $\geq 15$  mm air gap between layers of insulation

<b>fischer FFB-ES Plus</b>	
<b>Double sided penetration seal with cables supports (cable arrangement L)</b>	