DECLARATION OF PERFORMANCE

fischer
innovative solutions

DoP: FS-01-2020-J
for fischer FiAM Intumescent Acoustic Mastic

(Fire stopping and fire sealing products: Linear Joint and Gap Seals)

1. Unique identification code of the product-type: **FS-01-2020-J**

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, and EAD 350141-00-1106 chapter 1.2.1**

3. Manufacturer: **fischerwerke GmbH & Co. KG, Klaus-Fischer-Straße 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-14/0379; 2020-05-06

Technical Assessment Body: **Warringtonfire Testing and Certification Limited**

Notified body/ies: **2812 – Element Materials Technology Rotterdam B.V.**

7. Declared performance/s:

Essential Characteristic	Declared Performance
Basic Works Requirement 2: Safety in case of fire	
Reaction to fire	Class 'F' in accordance with EN 13501-1
Resistance to fire	See annex A
Basic Works Requirement 3: Hygiene, health and the environment	
Content, emission and/or release of dangerous substances	See chapter 3.2.2
Air permeability	See chapter 3.2.1
Water permeability	NPD
Basic Works Requirement 4: Safety and accessibility in use	
Mechanical resistance and stability	NPD
Resistance to impact / movement	NPD
Adhesion	NPD
Durability	See chapter 3.3.1
Movement Capability	NPD
Cycling of perimeter seals for curtain walls	NPD
Compression set	NPD
Linear expansion on setting	NPD
Basic Works Requirement 5: Protection against noise	
Airborne sound insulation	Rw (C;Ctr) = 38(-2;-7) dB
Basic Works Requirement 6: Energy economy and heat retention	
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:

i.V.

Constantin Wiegert, M.Sc., B.Eng.

i.A. M. Leipersberger

Marion Leipersberger, B.Eng.

Tumlingen, 2020-05-13

- 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.

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

	Characteristic	Assessment of characteristic
BWR 1 Mechanical resistance and stability		
BWR 2 Safety in case of fire		
	Reaction to fire	See clause 3.1.1
	Resistance to fire	See clause 3.1.1
BWR 3 Hygiene, Health and the Environment		
	Air permeability	See clause 3.2.1
	Release of dangerous substances	See clause 3.2.2
BWR 4 Safety in use		
	Durability and serviceability	See clause 3.3.1
BWR 5 Protection against noise		
	Airborne sound insulation	See clause 3.4.1
BWR 6 Energy, Economy and Heat Retention		
BWR 7 Sustainable use of natural resources		

3.1 Safety in case of fire

3.1.1 Reaction to fire

fischer FiAM Intumescent Acoustic Mastic is classified '**F'** in accordance with EN 13501-1.

3.1.2 Resistance to fire

fischer FiAM Intumescent Acoustic Mastic 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 fischer FiAM Intumescent Acoustic Mastic has been classified in accordance with EN 13501-2, as given in Annex A:

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

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 Health, Hygiene and the environment

3.2.1 Air permeability

fischer FiAM Intumescent Acoustic Mastic has been tested in accordance with BS EN 13141-1 to provide the following results:

Product tested			Acoustic intumescent sealant	
	Results under positive chamber pressure		Results under negative chamber pressure	
Pressure (Pa)	Leakage (m^3/h)	Leakage ($m^3/m^2/h$)	Leakage (m^3/h)	Leakage ($m^3/m^2/h$)
50	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0
150	0.0	0.0	0.1	2.8
200	0.0	0.0	0.1	2.8
250	0.0	0.0	0.1	2.8
300	0.0	0.0	0.0	0.0
450	0.1	2.8	0.1	2.8
600	0.1	2.8	0.1	2.8

3.2.2 Release of dangerous substances

Fischerwerke GmbH & Co has presented a declaration that fischer FiAM Intumescent Acoustic Mastic 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 labelling of dangerous substances) are stated in the fischer FiAM Intumescent Acoustic Mastic safety data sheets (according to91/155/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 of67/548/EEC.

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.

The use category of fischer FiAM Intumescent Acoustic Mastic in relation to BWR 3 (Hygiene, health and environment) is IA3, S/W3

3.3 Safety and accessibility in use.

3.3.1 Durability and serviceability

fischer FiAM Intumescent Acoustic Mastic has been tested in accordance with EOTA Technical Report - TR024 – Edition November 2006, for the type Z1 use category specified in EAD 350454-00-1106 Fire Stopping And Fire Sealing Products, 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.

3.4 Protection against noise.

3.4.1 Airborne sound insulation

The results of the test provided the following single number rating according to BS EN 10140-2:
Rw (C;Ctr)= 38(-2;-7)

4 Assessment and Verification Of Constancy Of Performance (Hereinafter AVCP) System Applied, With References 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 use/s	AVCP System
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.

5.1 Tasks for the Manufacturer

5.1.1 Factory production control

The manufacturer has a Factory Production Control System (FPC) and exercises permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer are documented in a systematic manner in the form of policies, procedures and work instructions. This FPC system ensures that the product is in conformity with this European Technical Assessment.

The manufacturer shall only use raw materials or components that are supplied with the relevant inspection documents as laid down in the Control Plan. All incoming raw materials shall be subject to inspection, verification, controls and tests (as applicable) by the manufacturer.

The Control Plan, which is part of the technical documentation of this European Technical Assessment includes details of the extent, nature and frequency of testing and controls to be performed within the FPC system and has been agreed between the Assessment holder and Warringtonfire Testing and Certification Limited. Any changes to the FPC; Control Plan or the Product shall only be made following approval by Warringtonfire Testing and Certification Limited.

The results of FPC are recorded and evaluated. These records include but are not limited to:

- Product specification and designation, basic materials and components
- Type(s) of Control testing
- Date of manufacture of the product and date of testing of the product or basic material and components;
- Result of control and testing and, if appropriate, comparison with requirements;
- Signature of the person responsible for FPC

These records shall be presented to Warringtonfire Testing and Certification Limited upon request.

The manufacturer shall, on the basis of a contract, involve a body (bodies) which is (are) approved for the tasks referred to in section 5.2 of this ETA. For this purpose, the "Control Plan" referred to in sections 5.1.1 and 5.2 shall be handed over by the manufacturer to the approved body or bodies involved.

5.1.2 Other tasks of manufacturer

5.1.2.1 Additional information

The manufacturer shall provide a technical data sheet and an installation instruction with the following minimum information:

(a) Technical data sheet:

- Field of application:
- Building elements for which the penetration seal is suitable, type and properties of the building elements like minimum thickness, density, and - in case of lightweight constructions – the construction requirements.
- Building elements for which the linear joint seal is suitable, type and properties of the building elements like minimum thickness, density, and - in case of lightweight constructions – the construction requirements.
- Limits in size, minimum thickness etc. of the linear joint seal

(b) Construction of the linear joint seal including the necessary components and additional products (e.g. backfilling material) with clear indication whether they are generic or specific.

(b) Installation instruction:

- Steps to be followed
- Procedure in case of retrofitting.

5.2 Tasks of notified body

5.2.1 Initial Type Testing of the Product

For initial type-testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Warringtonfire Testing and Certification Limited and the Notified Body.

5.2.2 Initial Inspection of Factory and of Factory Production Control

The Notified Body shall ascertain that, in accordance with the provisions laid down in the Control Plan, Reference 4.10.13, the factory and the factory production control are suitable to ensure continuous and orderly manufacturing of the product according to the specifications mentioned in Section 2, as well as to the Annexes to this European Technical Assessment.

5.2.3 Continuous Surveillance

The Notified Body shall visit the factory twice a year for regular inspection. It shall be verified that the system of factory production control and the specified manufacturing process is maintained in accordance with the provisions of this European Technical Assessment and the Control Plan.

Annex A

Resistance to Fire Classification of fischer FiAM Intumescent Acoustic Mastic

Orientation

The field of application regarding the orientation of the linear joint is given in Table 1.

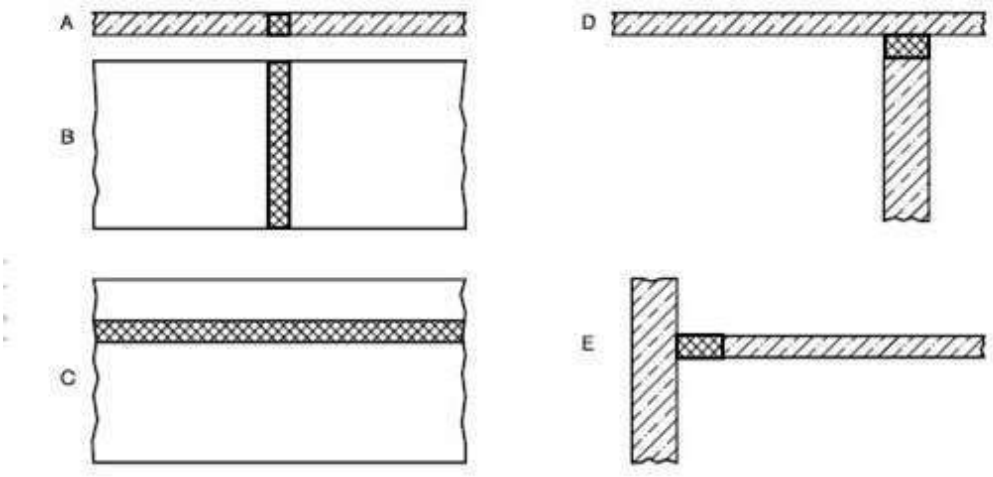
Table 1

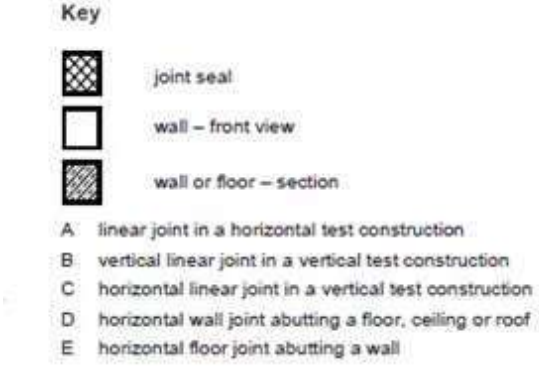
Tested orientation	Application
A	A, D, E[a]
B	B
C	C, D[b]

[a] Orientation E will only be covered by test orientation A if shear movement was chosen and one face of the joint was fixed and the other was moved.
[b] Orientation D will only be covered by test orientation C if shear movement was chosen and one face of the joint was fixed and the other face was moved.

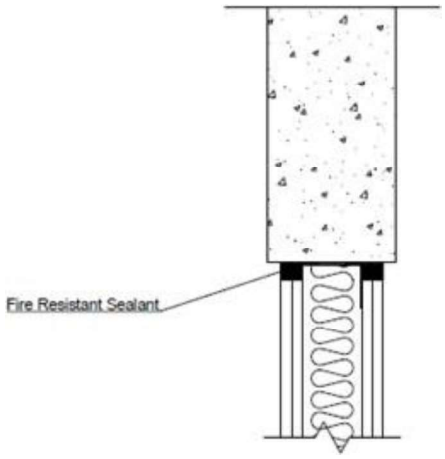
Key

A linear joint in a horizontal test construction
B vertical linear joint in a vertical test construction
C horizontal linear joint in a vertical test construction
D horizontal wall joint abutting a floor, ceiling or roof
E horizontal floor joint abutting a wall





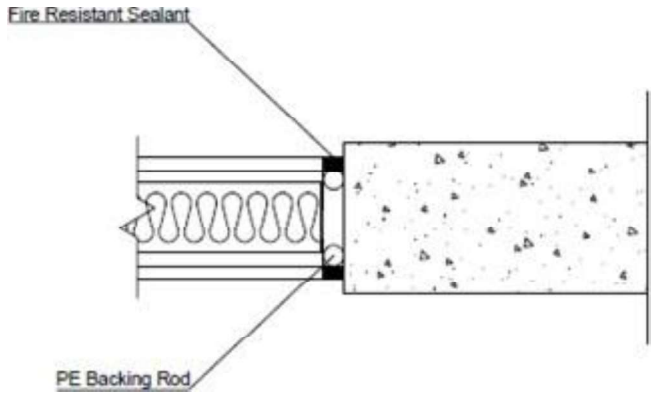
A1.1 fischer FiAM Intumescent Acoustic Mastic Linear Joint Seals. Min 120 mm Thick – Sealing of Drywall Head Track-Sealant Flush To Both Faces Of The Wall



Application D

Substrate	Depth (mm)	Classification
Gypsum board/Steel head track	25mm. (Both Sides)	**EI120–T – X – F – W 00 to 20**
		EI120–V – X – F – W 00 to 20

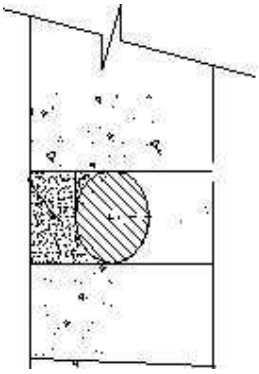
A1.2 fischer FiAM Intumescent Acoustic Mastic. Min 120 mm Thick Flexible or Rigid Wall.



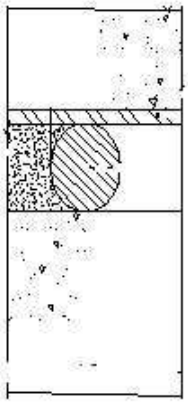
Application B

Substrate	Depth (mm)	Backing Material	Classification
Flexible Wall to Rigid Wall	12.5mm. (Both Sides)	PE backing Rod	**EI120–V – X – F – W 00 to 20**

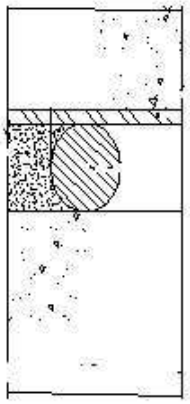
A1.3 fischer FiAM Intumescent Acoustic Mastic Linear Joint Seals. Min 100 mm Thick Rigid Wall.



Concrete-Concrete



Concrete to Softwood

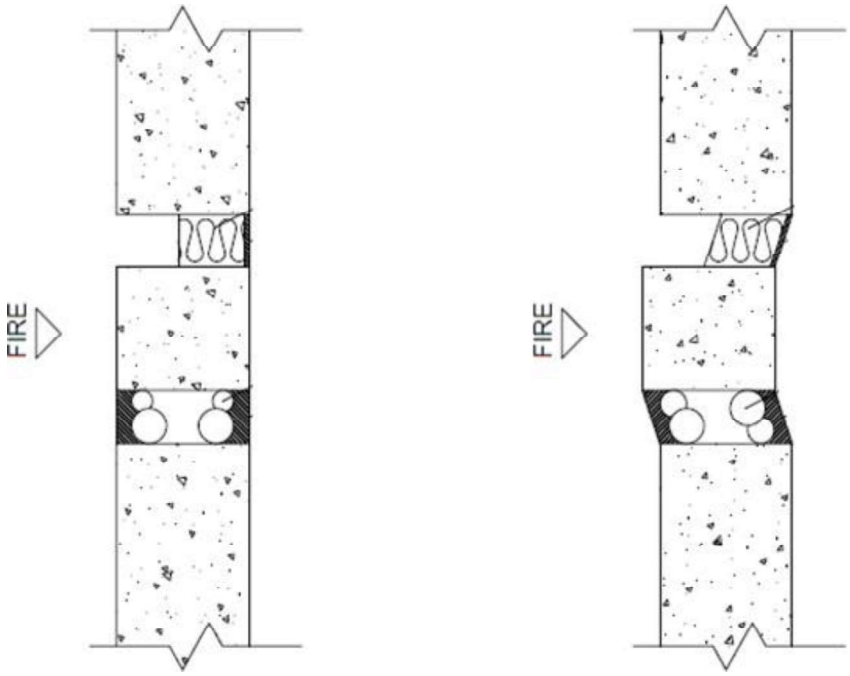


Concrete to Steel

Application B

Substrate	Depth (mm)	Backing Material	Classification
Concrete-Concrete	10 (Single Side)	PE backing Rod	**E120 EI45–V – X – F – W 00 to 20**
Concrete-Concrete	25 (Single Side)		**E120 EI60–V – X – F – W 00 to 50**
Concrete-Steel	10 (Single Side)		**E120 EI20–V – X – F – W 00 to 20**
Concrete-Steel	50 (Single Side)		**E45 EI30–V – X – F – W 00 to 50**
Concrete-Softwood	10 (Single Side)		**E30 EI20–V – X – F – W 00 to 20**
Concrete-Softwood	50 (Single Side)		**EI45–V – X – F – W 00 to 50**

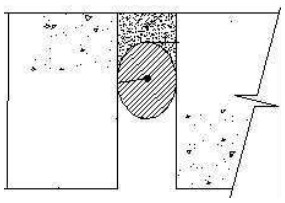
A1.4 fischer FiAM Intumescent Acoustic Mastic Linear Joint Seals. Min 150 mm Thick Rigid Wall.



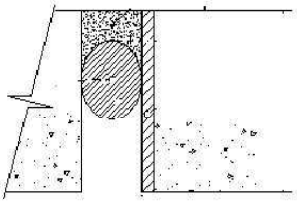
Application B

Substrate	Depth (mm)	Backing Material	Classification
Concrete-Concrete	20 (Double Side)	PE backing rod	**E240 EI120–V – 25 – F – W 00 to 60**
Concrete-Concrete	5 (Non fireside Side)	Stonewool 75mm deep, 60kg/m^3	**E240 EI120–V – 25 – F – W 00 to 60**

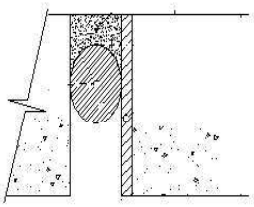
A1.5 fischer FiAM Intumescent Acoustic Mastic Linear Joint Seals. Min 150 mm Thick Rigid Floor.



Concrete-Concrete



Concrete to Steel

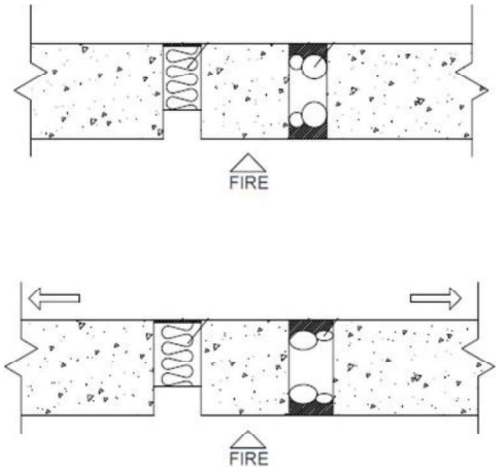


Concrete to Softwood

Application A, D, E

Substrate	Depth (mm)	Backing Material	Classification
Concrete-Concrete	10 (Single Side)	PE backing Rod	**E240 EI45–H – X – F – W 00 to 20**
Concrete-Concrete	25 (Single Side)		**E240 EI90–H – X – F – W 00 to 50**
Concrete-Steel	10 (Single Side)		**E120 EI20–H – X – F – W 00 to 20**
Concrete-Steel	50 (Single Side)		**E240 EI90–H – X – F – W 00 to 50**
Concrete-Softwood	10 (Single Side)		**EI30–H – X – F – W 00 to 20**
Concrete-Softwood	50 (Single Side)		**EI45–H– X – F – W 00 to 50**

A1.6 fischer FiAM Intumescent Acoustic Mastic Linear Joint Seals. Min 150 mm Thick Rigid Floor



Application A, D, E

Substrate	Depth (mm)	Backing Material	Classification
Concrete-Concrete	20 (Double Side)	Stonewool 75mm deep, 60kg/m^3	**E240 EI120–V – 25 – F – W 00 to 60**
Concrete-Concrete	5 (Non fireside Side)	PE Backing rod	**E240 EI120–V – 25 – F – W 00 to 60**