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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-20/1064 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 FiAM Intumescent Acoustic Mastic

Product family to which the above construction product belongs:

Fire Stopping, Fire Sealing & Fire Protective Products.
Fire Retardant Products

Manufacturer:

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

Manufacturing plant:

fischerwerke GmbH & Co. KG

This European Technical Assessment contains:

15 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 350454-00-1104 – Firestopping and fire sealing products, Penetration Seals: Issue September 2017

This version replaces:

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1 Technical Description of the Product

- 1) fischer FiAM Intumescent Acoustic Mastic is an acrylic based sealant used to form linear gap seals where gaps are present in wall and floor constructions and linear joint seals where wall and floor constructions abut.
- 2) fischer FiAM Intumescent Acoustic Mastic has slight intumescent properties that cause it to swell on heating.
- 3) The fischer fiAM Intumescent Acoustic Mastic is supplied in liquid form contained within 310 ml & 380ml cartridges, 600ml foils or in 5, 10, 20 or 25 litre tubs. The sealant is gunned or trowelled into the aperture in or between the separating element/elements to a specified depth utilising various backing materials.

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

The intended use of fischer FiAM Intumescent Acoustic Mastic is to reinstate the fire resistance performance of gaps in and joints between rigid and flexible wall constructions, gaps in and joints between rigid floor constructions.

- 4) The specific elements of construction that the fischer FiAM Intumescent Acoustic Mastic 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 .
Rigid walls:	The wall must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m ³ .
Flexible walls	The wall must have a minimum thickness of 120 mm and comprise timber or steel studs lined on both faces with minimum 2 layers of 12.5 mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the penetration shall be closer than 100 mm to a stud, the cavity must be closed between the penetration seal and the stud and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the penetration seal and the stud.

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

- 5) The fischer FiAM Intumescent Acoustic Mastic 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 fischer FiAM Intumescent Acoustic Mastic is 60 mm.
- 7) The maximum movement capability of fischer FiAM Intumescent Acoustic Mastic is $\leq 25\%$ depending on the application and installation. See Annex A for further details
- 8) The provisions made in this European Technical Assessment are based on an assumed working life of the fischer FiAM Intumescent Acoustic Mastic of 25 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

Characteristic	Assessment of characteristic
BWR 1 Mechanical resistance and stability	
BWR 2 Safety in case of fire	
Reaction to fire	See clause 1.1
Resistance to fire	See clause 1.1
BWR 3 Hygiene, Health and the Environment	
Air permeability	See clause 2.1
Release of dangerous substances	See clause 2.2
BWR 4 Safety in use	
Durability and serviceability	See clause 3.1
BWR 5 Protection against noise	
Airborne sound insulation	See clause 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

No performance assessed

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 C 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 Hygiene, Health and the environment.

3.2.1 Air Permeability

fischer FiAM Intumescent Acoustic Mastic has been tested in accordance with BS EN 1314-1 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	0.0
100	0.0	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	0.0
450	0.1	2.8	0.1	2.8	
600	0.1	2.8	0.1	2.8	

3.2.2. Content and release of Dangerous Substances

The applicant 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 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 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

3.1 Safety and accessibility in use

3.1.1 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 0oC, 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 according to BS EN 10142-2:

Rw (C;Ctr)= 38(-2;-7)

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

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



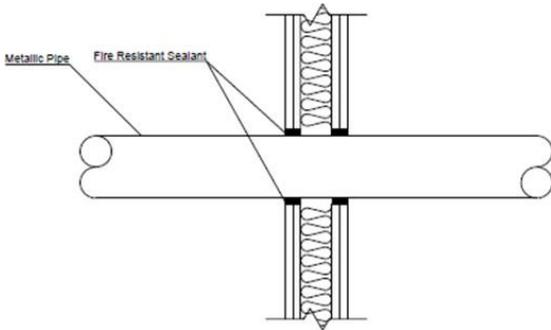
Thomas Bruun

Managing Director, ETA-Danmark

Annex A

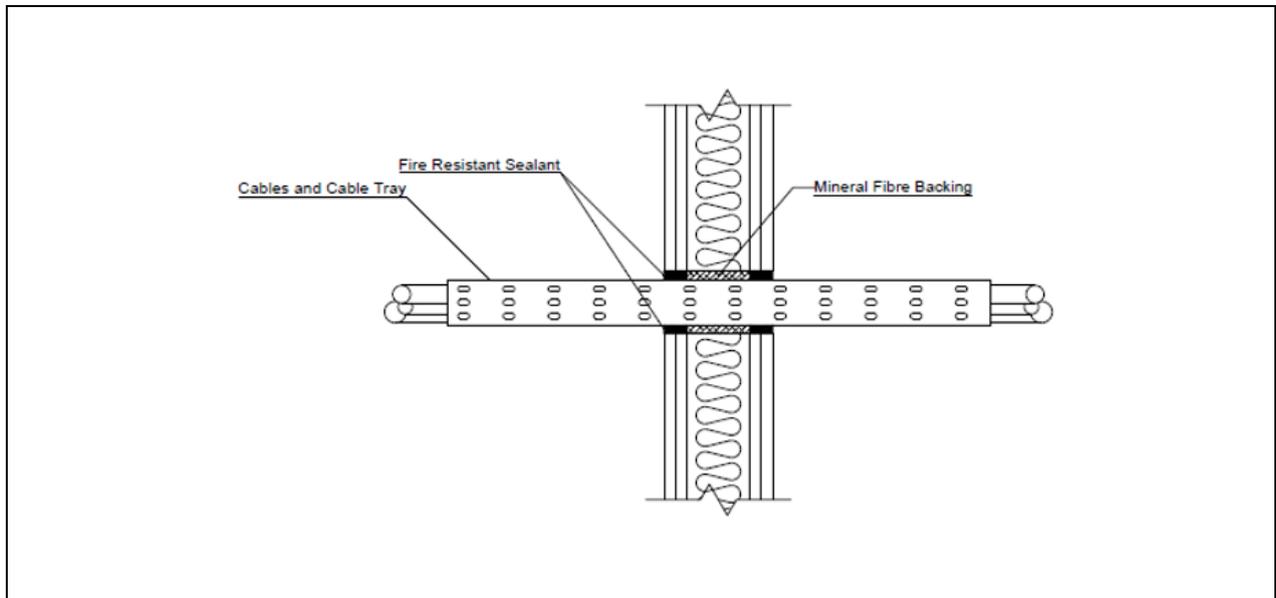
Resistance to Fire Classification of fischer FiAM Intumescent Acoustic Mastic

A1.1 fischer FiAM Intumescent Acoustic Mastic Penetration Seals. Min 120 mm thick Flexible or Rigid Wall - Pipes

			
Penetration Specification	fischer FiAM Intumescent Acoustic Mastic (installed both faces)	Backing Material	Classification
Copper/Steel Pipe 15mm \varnothing , 0.8mm – 7.4mm wall thickness	10mm annulus x 25mm deep	N/A	E120 C/U EI20 C/U
Copper/Steel Pipe 40mm \varnothing , 0.8mm – 14.2mm wall thickness			E120 C/U EI15 C/U
Copper/Steel Pipe 40-159mm \varnothing , 1.8mm – 14.2mm wall thickness			E120 C/U
Copper/Steel Pipe 40mm \varnothing , 0.8mm – 14.2mm wall thickness*			E120 C/U EI90 C/U
Copper/Steel Pipe 40-159mm \varnothing , 1.8mm – 14.2mm wall thickness*			E120 C/U EI20 C/U

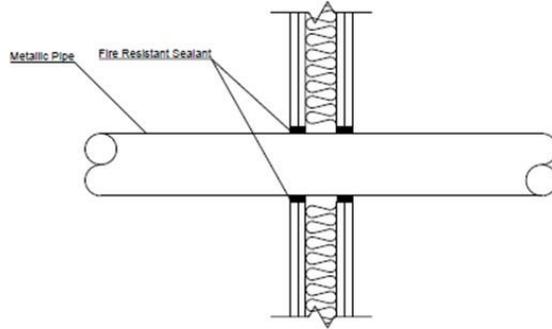
*fischer Thermal defence wrap to the unexposed face 300mm long

A1.2 fischer FiAM Intumescent Acoustic Mastic Penetration Seals. Min 120 mm thick Flexible or Rigid Wall - Cables



Penetration Specification	fischer FiAM Intumescent Acoustic Mastic (installed both faces)	Backing Material	Classification
Cables up to 21mm Perforated Cable Tray 450mm x 50mm	490mm long x 100mm high x 25mm deep	70mm thick, 80Kg/m ³	E120 EI90
Cables up to 21-50mm	200mm long x 100mm high x 25mm deep	N/A	E90 EI60

A1.3 fischer FiAM Intumescent Acoustic Mastic Penetration Seals. Min 100 mm thick Flexible or Rigid Wall - Pipes

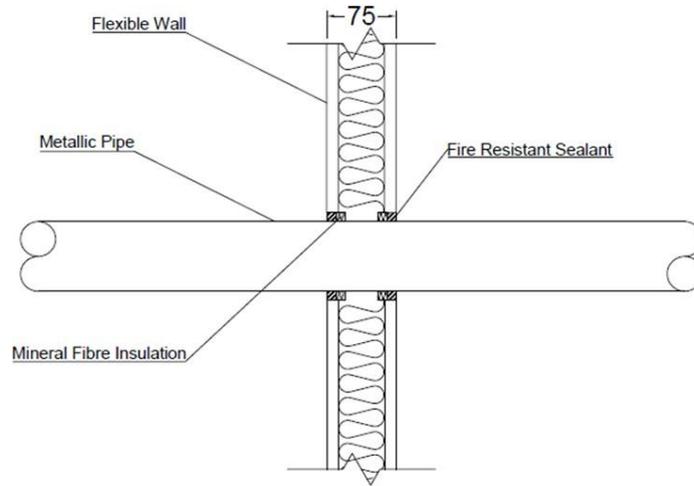


Penetration Specification	fischer FiAM Intumescent Acoustic Mastic (installed both faces)	Backing Material	Classification
Steel Pipe 42mm \varnothing , 2.8mm – 14.2mm wall thickness	10mm annulus x 25mm deep	N/A	E120 C/U EI45 C/U
Steel Pipe 114mm \varnothing , 3.0mm – 14.2mm wall thickness			E120 C/U EI20 C/U
Steel Pipe 42-115mm \varnothing , 3.0mm – 14.2mm wall thickness			E120 C/U EI20 C/U
PVCu Pipe 40mm \varnothing , 3.0 wall thickness			EI120 C/U

A1.4 fischer FiAM Intumescent Acoustic Mastic Penetration Seals. Min 100 mm thick Flexible or Rigid Wall - Cables

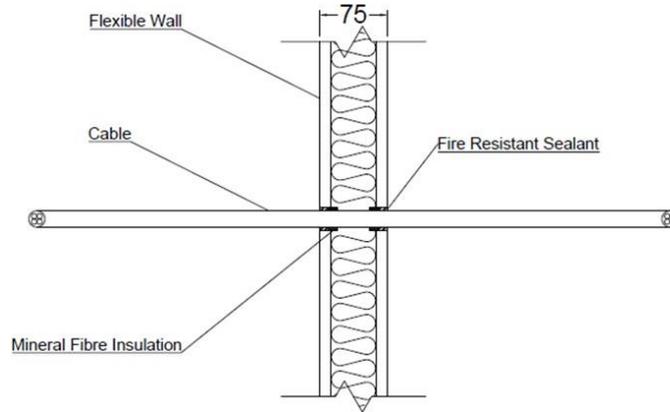
<p>Electrical Cables up to 80mm \varnothing</p>	<p>180mm x 180mm Max 50mm x 50mm Min</p>	<p>Stonewool 20mm thick, 45Kg/m³</p>	<p>E90 EI60</p>

A1.5 fischer FiAM Intumescent Acoustic Mastic Penetration Seals. Min 75 mm thick Flexible or Rigid Wall - Pipes



Penetration Specification	fischer FiAM Intumescent Acoustic Mastic (installed both faces)	Backing Material	Classification
Copper/Steel Pipe 15mm \varnothing , 0.7mm – 7.5mm wall thickness	10mm annulus x 12mm deep	Stonewool 10mm deep 45kg/m ³	E90 C/U EI60 C/U
Copper/Steel Pipe 15- 54mm \varnothing , 1.2mm – 7.5mm wall thickness			E90 C/U
Steel Pipe 15mm \varnothing , 1.0mm – 14.2mm wall thickness			EI90 C/U
Steel Pipe 15-76mm \varnothing , 2.0mm – 14.2mm wall thickness			E90 C/U EI20 C/U

A1.6 fischer FiAM Intumescent Acoustic Mastic Penetration Seals. Min 75 mm thick Flexible or Rigid Wall – Cables



Penetration Specification	fischer FiAM Intumescent Acoustic Mastic (installed both faces)	Backing Material	Classification
1 x 'B' Cable	25mm ø aperture	Stonewool 50mm thick, 45Kg/m ³	E90 EI60