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European Technical Assessment

ETA-20/1207 of 2020/12/17

General Part

Technical Assessment Body Issuing the European Technical Assessment:	Element Materials Technology Rotterdam B.V.
Trade Name of the Construction Product:	Pyroplex 200 Series SL
Product Family to Which the	EC PAC 35 – Fire Stopping, Fire Sealing & Fire
Construction Product Belongs:	Protective Products. Fire Retardant Products
Manufacturer:	Pyroplex Limited
	The Furlong
	Droitwich
	Worcestershire
	WR9 9BG
Manufacturing Plant(s):	E/043
This European Technical Assessment Contains:	14 Pages including Annex A which forms an integral part of this Assessment
This European Technical Assessment	EAD 350454-00-1104, Issue September 2017
is Issued in Accordance with	Fire stopping and fire sealing products -
Regulation (EU) No 305/2011, On the Basis Of:	Penetration seals
This Version Replaces:	ETA 19/0440, issued on 2019/08/27

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

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1 Technical Description of the Product

(Detailed information and data are given in Annexes)

- 1) Pyroplex 200 Series SL are used around combustible pipes to form a penetration seal to reinstate the fire resistance performance of wall and floor constructions, where they have been provided with apertures for the penetration of combustible pipes services.
- 2) Pyroplex 200 Series SL include an intumescent component incorporated into a mild steel case to close any gaps or joints and provide closure of combustible pipes when heated and to prevent the passage of fire. Pyroplex 200 Series SL are supplied in assembled form. The device is wrapped around the pipe and mechanically fixed to the wall or floor.
- 3) The applicant has submitted a written declaration that the product and/or constituents of the product contains no substances which have been classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No. 1272/2008 and listed in the 'indicative list on dangerous substances' of the EGDS – taking into account the installation conditions of the construction product and the release scenarios resulting from there.

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 catagory of Pyroplex 200 Series SL in relation to BWR 3 (Hygiene, health and environment) is IA3, S/W3

Internal use- ETAG 026-2 (used as European Assessment Document EAD) Type Z2.

2 Specification Of The Intended Use In Accordance With The Relevant EAD

2.1 Intended Use

The intended use of system Pyroplex 200 Series SL is to reinstate the fire resistance performance of flexible and rigid wall constructions and rigid floor constructions where they are penetrated by various combustible pipe services.

1) The specific elements of construction that the system Pyroplex 200 Series SL may be used to provide a penetration seal in, are as follows:

Rigid floors: The floor must have a minimum thickness of 150 mm and comprise

aerated concrete or concrete with a minimum density of 650 kg/m³.

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/m³.

Flexible walls The wall must have a minimum thickness of 100 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, 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.

- 2) The system Pyroplex 200 Series SL may be used to provide a penetration seal with specific combustible pipes, single only (for details see Annex C & D).
- 3) Apertures in the separating element shall be sized as detailed in the installation instructions (4.2). Apertures for the penetration of pipes shall be separated by a minimum 100 mm.
- 4) Pipes shall be supported at maximum 320 mm away from both faces of the wall constructions and from the upper face of floor constructions.

The provisions made in this European Technical Approval are based on an assumed working life of the Pyroplex 200 Series SL 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, 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.

2.1.1 Use Category

Type Z_2 : Intended for use at internal conditions with humidity classes other than Z_1^1 , excluding temperatures below 0°C.

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¹ i.e. humidity class other than class 5 in accordance with EN ISO 13788

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

Produc	ct Type: Pyroplex 200 Series SL	Intended use: Penetration					
		Seal					
Basic Basic Requirement requirement for construction work		Performance					
	BWR 1 Mechanical resistance and	stability					
	None Not relevant						
BWR 2 Safety in case of fire							
EN 13501-1	Reaction to fire	Class F					
EN 13501-2	Resistance to fire	Annex A & B					
	BWR 3 Hygiene, Health and the Env	ironment					
EN 1026:2000	Air permeability	No performance determined					
ETAG 026-3 Annex C	Water permeability	No performance determined					
Declaration by manufacturer	Release of dangerous substances	Use category IA3, S/W3 Declaration of manufacturer					
BWR 4 Safety in use							
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined					
EOTA TR 001:2003	Resistance to impact/movement	No performance determined					
EOTA TR 001:2003	Adhesion	No performance determined					
	BWR 5 Protection against no	ise					
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	No performance determined					
	BWR 6 Energy, Economy and Heat I	Retention					
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined					
EN ISO 12572 EN12086	Water vapour permeability	No performance determined					
	General aspects relating to fitness	for use					
EOTA TR 024:2009	Durability and serviceability	Z ₂					
	BWR 7 Sustainable use of natural re	esources					
		No performance determined					

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 uses	Level or Class	System
Fire stopping and fire sealing products	For fire compartmentation and / or fire protection or fire performance	Any	System 1

5 Technical Details Necessary For The Implementation Of The AVCP System, As Provided For In The Applicable EAD.

Tasks for the Manufacturer Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this European technical assessment.

The manufacturer may only use constituent materials stated in the technical documentation of this European technical assessment.

The factory production control shall be in accordance with the Control Plan of 6/7/12 relating to the European Technical Assessment ETA 20/1207 "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at Element Materials Technology Rotterdam B.V The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

Other tasks of manufacturer

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.

- Services for which the penetration seal is suitable, type and properties of the services like material, diameter, thickness etc. in case of pipes including insulation materials; necessary/allowed supports/fixings (e.g. cable trays)
- Limits in size, minimum thickness etc. of the penetration seal
- (b) Installation instruction:
 - Steps to be followed
 - Procedure in case of retrofitting.

The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of the European technical assessment

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Tasks of approved bodies

The approved body shall perform the

- initial type-testing of the product,
- initial inspection of factory and of factory production control,
- continuous surveillance, assessment and approval of factory production control,

In accordance with the provisions laid down in the "Control Plan" of 6/7/12 relating to the European Technical Assessment ETA 20/1207

The approved body shall retain the essential points of its actions referred to above and state the results obtained and conclusions drawn in a written report.

The approved certification body involved by the manufacturer shall issue an EC certificate of conformity of the product stating the conformity with the provisions of this European technical assessment.

In cases where the provisions of the European technical assessment and its "Control Plan" are no longer fulfilled the certification body shall withdraw the certificate of conformity and inform the Element Materials Technology Rotterdam B.V without delay.

Issued in Amsterdam, Netherlands on 2020/12/17

Βv

Paul Duggan

Deputy TAB Manager

Annex A

Resistance to Fire Classification of Pyroplex 200 Series SL

- Flexible and rigid wall constructions according to 2.1.1 with wall thickness of minimum 100 mm
- A.1.1 Pyroplex 200 Series SL Installed Both Faces Of The Wall

		xible and Rigid Wal 0 Series SL Mounte	ls min 100mm Thick. ed to Both Faces	
Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
	50	2.4 - 3.7	52	
	75	3.2 – 4.9	75	
uPVC	82	3.4 – 5.2	82	E 120 EI 90 U/C
	110	4.2 – 6.6	110	
	160	6.2 – 9.5	160	
Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
uPVC	160	6.2 – 9.5	160	EI 120 U/C

PP Pipes Flexible and Rigid Walls min 100mm Thick. Pyroplex 200 Series SL Mounted to Both Faces				
Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
	50	2 – 6.9	52	
	75	2.3 – 10.3	75	
PP	82	2.4 – 11.3	82	E 120 EI 60 U/C
	110	2.7 – 15.1	110	
	160	4– 21.9	160	

Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
PP	160	4– 21.9	160	E 120 EI 90 U/C

PE Pipes Flexible and Rigid Walls min 100mm Thick. Pyroplex 200 Series SL Mounted to Both Faces

Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
	50	3 – 4.6	52	
D.F.	75	2.9 – 6.9	75	E 400 EL 00 LUO
PE	82	2.4 – 11.3	82	E 120 EI 90 U/C
	110	2.8 – 7.5	110	

Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
	160	4– 14.6	160	EI 120 U/C

A.2 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

A.2.1 Pyroplex 200 Series SL Installed Underside Of The Floor

uPVC Pipes Rigid Floors 150mm Thick.

Pyroplex 200 Series SL Mounted to the Underside

Skim of Pyroplex Acrylic Inturescent Sealant

Inturescent Sealant

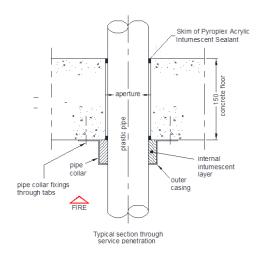
Inturescent Sealant

Typic al section through service penetration

Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
	50	2.4 - 3.7	52	
	75	3.2 – 4.9	75	
uPVC	82	3.4 – 5.2	82	EI 120 U/C
	110	4.2 – 6.6	110	
	160	6.2 – 9.5	160	

PP Pipes Rigid Floors 150mm Thick.

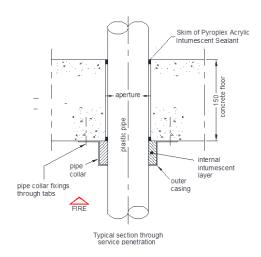
Pyroplex 200 Series SL Mounted to the Underisde



Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
	50	2 – 6.9	52	
	75	2.3 – 10.3	75	
PP	82	2.4 – 11.3	82	EI 120 U/C
	110	2.7 – 15.1	110	
	160	4-21.9	160	

PE Pipes Rigid Floors 150mm Thick.

Pyroplex 200 Series SL Mounted to the Underside



Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
	50	3 – 4.6	52	
PE	75	2.9 – 6.9	75	EI 120 U/C
	82	2.4 – 11.3	82	2. 120 0/0
	110	2.8 – 7.5	110	

Penetrating Service Item (Tested)	Diameter(mm)	Pipe wall thickn. Range (mm)	Collar Ref	FIRE RESISTANCE CLASSIFICATION
PE	160	4– 14.6	160	EI 90 U/C