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Designated according to Article 29 of Regulation (EU) No 305/2011

designated according to Article 29 of the Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment, www.eota.eu)

European Technical Assessment

ETA 13/0879
of 17/11/2017

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011:	**UL International (UK) Ltd**
Trade name of the construction product	Protecta FR Acrylic
Product family to which the construction product belongs	Fire Stopping and Sealing Product: • Linear Joint and Gap Seals
Manufacturer	Polyseam AS Ravneveien 7 Linnestad Næringsområde N-3174 Revetal, Norway http://www.polyseam.com
Manufacturing plant(s)	Polyseam Ltd 15 St Andrews Road Huddersfield HD1 6SB
This European Technical Assessment contains	11 pages including 1 Annex which forms an integral part of this assessment.
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	ETAG 026-3, edition 2011, used as European Assessment Document (EAD).
This version replaces	ETA 13/0879 issued on 21/09/2016

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

1) Protecta FR Acrylic is a 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) The Protecta FR Acrylic is supplied in liquid form contained within 310 & 380 ml cartridges and 600 ml foil packs. The sealant is gunned into the aperture in the separating element/elements and around the service or services, to a specified depth utilising mineral fibre insulation backing material.

3) Protecta FR Acrylic contains no carcinogenic substances or mutagenic substances, flame retardants or antimicrobiological agents.

4) Polyseam AS submitted a written declaration that Protecta FR Acrylic does not contain substances which have to be 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.

5) The use catagory of Protecta FR Acrylic in relation to BWR 3 (Hygiene, health and environment) is IA1, S/W3

2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): ETAG 026-3

Detailed information and data is given in Annex A.

The intended use of system Protecta FR Acrylic is to reinstate the fire resistance performance of gaps in and joints in and between flexible wall and rigid wall constructions, gaps in and joints between rigid floor constructions.

1) The specific elements of construction that the system Protecta FR Acrylic may be used to provide a gap or joint seal in, are as follows:

Flexible walls:	The wall must have a minimum thickness of 75 mm and comprise steel studs lined on both faces with minimum 1 layers of 12.5 mm thick boards. The wall is permitted with or without insulation material between the boards.
Rigid walls:	The wall must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m3.
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.

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

2) The system Protecta FR Acrylic may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex A).

3) The maximum permitted joint/gap width for system Protecta FR Acrylic is 100 mm.

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4) The maximum movement capability of system Protecta FR Acrylic is ≤ 7.5%

5) The provisions made in this European Technical Assessment are based on an assumed working life of the Protecta FR Acrylic of 30 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.

6) Type Z_2: Intended for uses in internal conditions with humidity lower 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

Product-type: Sealant	Intended use: Linear Joint & Gap Seal	
Basic requirement for construction work	Essential characteristic	Performance
	Mechanical resistance and stability	
-	None	Not relevant
Safety in case of fire		
EN 13501-1	Reaction to fire	Class D-s1, d1
EN 13501-2	Resistance to fire	Annex A
Hygiene, health and environment		
EN 1026:2000	Air permeability (material property)	No performance determined
ETAG 026-3, Annex C	Water permeability (material property)	No performance determined
Declaration of manufacturer	Release of dangerous substances	Declaration of manufacturer
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 ISO 11600	Adhesion	No performance determined
Protection against noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw(C;Ctr)= 62 (-1;-5) dB*
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined
Energy economy and heat retention		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
General aspects relating to fitness for use		
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389	Durability and serviceability	Z_2

* At 12 mm depth

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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 – Commission Decision of date 22nd June 1999 on on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, see http://eur-lex.europa.eu/JOIndex.do) of the European Commission[1], as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table(s) applies (apply).

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire stopping and Fire Sealing Products	For fire compartmentation and/or fire protection or fire performance	Any	1

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Tasks of 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 initial / raw / 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 8th April 2013 relating to the European technical assessment ETA 13/0879 issued on 17/11/2017 which is part of the technical documentation of this European technical approval. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at UL International (UK) Ltd.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

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[1] Official Journal of the European Communities L178/52 of 14/7/1999

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

(b) Installation instruction:

- Steps to be followed
- Procedure in case of retrofitting
- Stipulations on maintenance, repair and replacement

6 Issued on:

17th November 2017

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Reviewed by:

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Building and Life Safety Technologies

For and on behalf of UL International (UK) Ltd.

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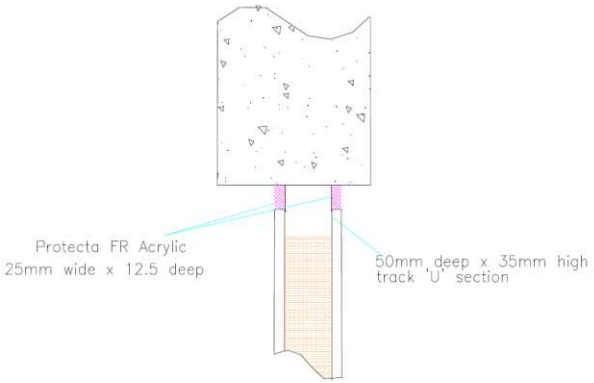
ANNEX A – Resistance to Fire Classification – Protecta FR Acrylic

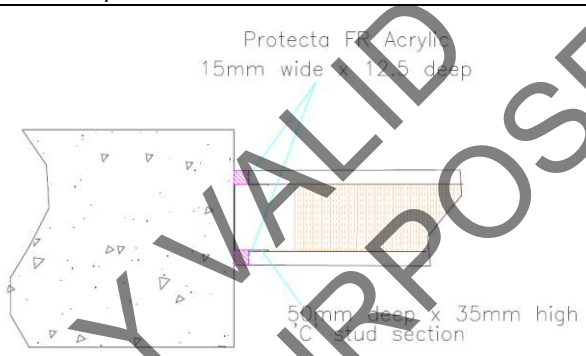
A.1 Flexible wall constructions according to 2 1) with wall thickness of minimum 75 mm and minimum 1 x layer of 12.5 mm board per side

A.1.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall

Joint Seal: Protecta FR Acrylic to both sides of the wall, joint widths up to 30 mm

Construction details:





A.1.1.1

Substrate	Depth (mm)	Backing	Classification
Plasterboard / concrete	12.5 min.	50 mm steel partition head track/ stud	**E 60 – T – X – F – W 25** **EI 45 – T – X – F – W 25**
			E 60 – V – X – F – W 15 **EI 45 – V – X – F – W 15**

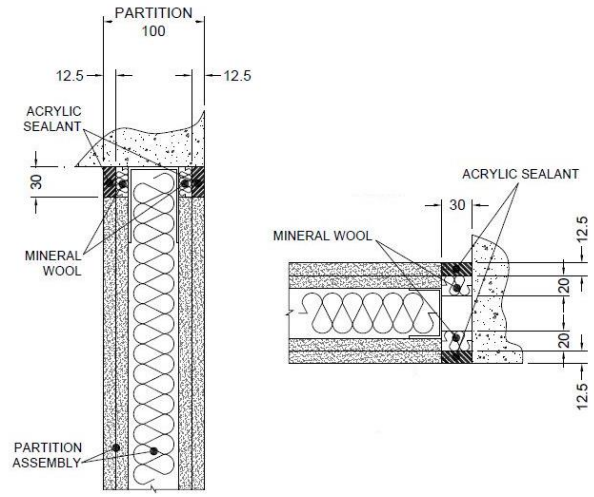
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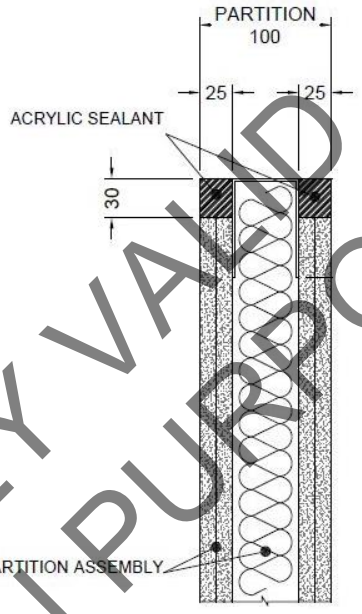
A.2 Flexible wall constructions according to 1.2.1 with wall thickness of minimum 100 mm and minimum 2 x layer of 12.5 mm board per side

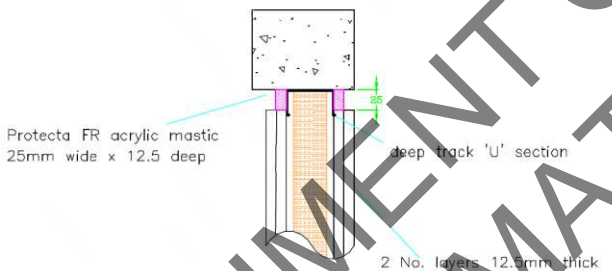
A.2.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall

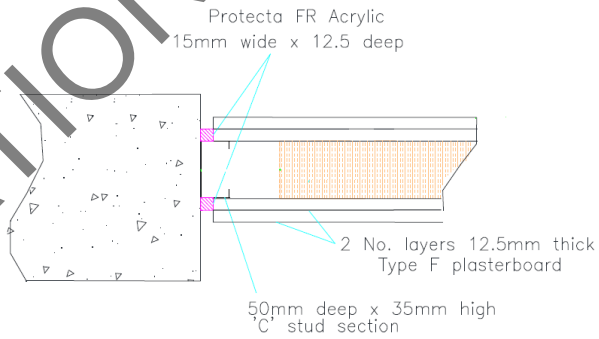
Joint Seal: Protecta FR Acrylic to both sides of the wall, joint widths up to 30 mm

Construction details:









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A.2.1.1

Substrate	Depth (mm)	Backing	Classification
Plasterboard / concrete	12.5 min.	12.5 mm Stone wool 35 kg/m^3 plus 50 mm steel partition head track	**EI 120 – T – X – F – W 00 to 30**
		20 mm Stone wool 35 kg/m^3 *	**EI 120 – V – X – F – W 00 to 30**
	25 min.	50 mm steel partition head track /stud	**EI 120 – T – X – F – W 00 to 30**
	12.5 min.		**EI 90 – T – X – F – W 25**
			EI 90 – V– X – F – W 15

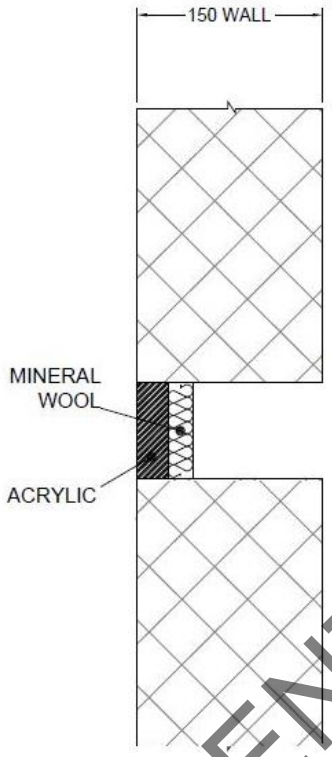
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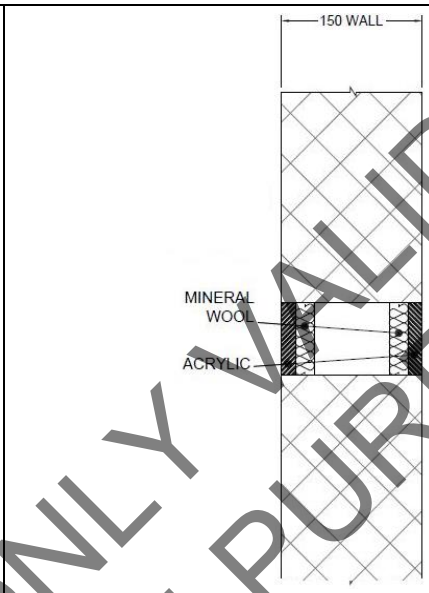
A.3 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

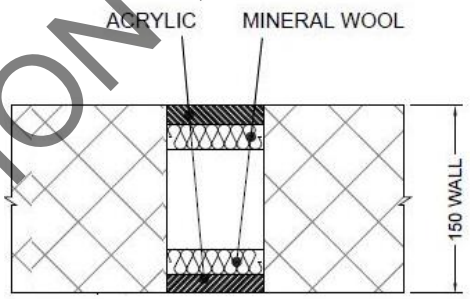
A.3.1 Linear joint or gap seal, between head of rigid wall and soffit of concrete floor / between rigid walls

Joint Seal: Protecta FR Acrylic to either side (or any position between) or both sides of the wall, joint widths up to 30 mm

Construction details:







A.3.1.1

Substrate	Depth (mm)	Backing	Classification
masonry/ concrete	25 min. (one side)	20 mm Stone wool 40 kg/m^3	**E 240 – T – X – F – W 00 to 30** **EI 60 – T – X – F – W 00 to 30**
	15 min. (both sides)		**EI 240 – V – X – F – W 00 to 30** **EI 240 – T – X – F – W 00 to 30**
	10 min. (one side)	60 mm Stone wool 33 kg/m^3	**E 240 – T – X – F – W 50** **EI 60 – T – X – F – W 50** **EI 120 – V – X – F – W 50**
	25 min. (one side)	48 mm Protecta Mineral Fibre BIO	**E 240 – T – X – F – W 00 to 30** **EI 120 – T – X – F – W 00 to 30**

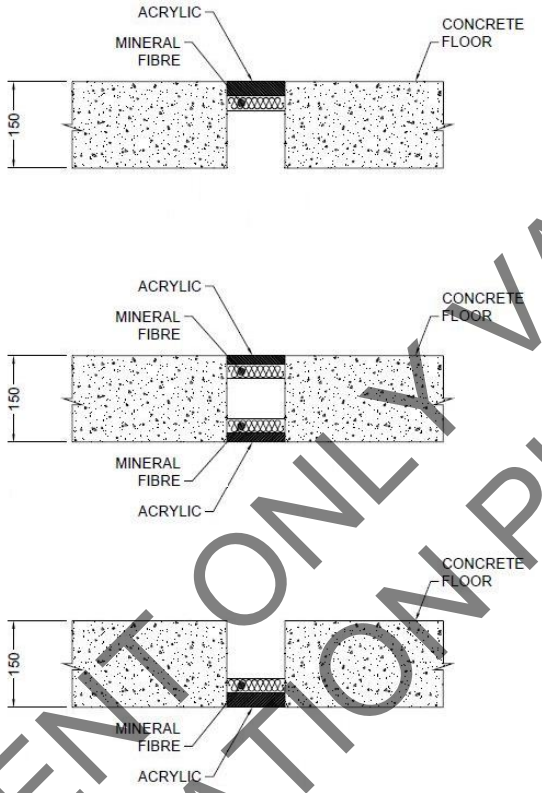
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A.4 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

A.4.1 Linear joint or gap seal, between floor slabs or between floor slab and wall with sealant to the top face of the floor only

Joint Seal: Protecta FR Acrylic to either side (or any position between) or both sides of the floor, joint widths up to 100 mm

Construction details:



A.4.1.1

Substrate	Depth (mm)	Backing	Classification
masonry/ concrete	25 min. (any position)	25 mm Protecta Mineral Fibre BIO	**E 120 – H – X – F – W 00 to 100** **EI 60 – H – X – F – W 00 to 100**
	25 min (top face)		**EI 180 – H – X – F – W 00 to 100**
	15 min. (both sides)	25 mm Stone wool 40 kg/m^3	**EI 120 – H – X – F – W 00 to 100**
		25 mm Stone wool 140 kg/m^3	**EI 180 – H – X – F – W 00 to 100**
	15 min. (both sides)	25 mm stone wool 35 kg/m^3 insulation	**EI 240 – H – X – F – W 00 to 30**
	10 min. (top face)	90 mm Stone wool 33 kg/m^3	**EI 240 – H – X – F – W 100**

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