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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



## European Technical Assessment ETA-21/0194 of 2021/04/23

### 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:**

Squeezer L

**Product family to which the above construction product belongs:**

Fire Stopping and Sealing Product:  
• Penetration Seals

**Manufacturer:**

FireSeal AB  
Esbogatan 14  
164 07 Kista  
Sweden

**Manufacturing plant:**

A/005

**This European Technical Assessment contains:**

12 pages including 1 annex 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, September 2017

**This version replaces:**

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## **I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT**

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

- 1) Squeezer L is a pipe closure device used to form penetration seals where combustible pipes, cables and metal pipes with insulation penetrate walls and floors.
- 2) The Squeezer L is supplied with intumescent liner complete within metal steel shell, to be clamped around the service and screw fixed back to the supporting element. The Squeezer L may be supplied with powder coated steel shells incorporating a hinge and toggle latch, stainless steel half shells with slide together fixing and galvanized steel half shells with slide together fixing.
- 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.

- 4) The use category of Squeezer L in relation to BWR 4 (safety in use) is IA1, S/W3

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

Detailed information and data is given in Annex A.

The intended use of system Squeezer L is to reinstate the fire resistance performance of flexible wall and rigid wall and floor constructions, where they are penetrated by services.

- 1) The specific elements of construction that the system Squeezer L may be used to provide a penetration seal in, are as follows:

Flexible walls: The wall must have a minimum thickness of 100 mm and comprise steel studs lined on both faces with minimum 2 layers of 12.5 mm thick boards.  
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<sup>3</sup>.  
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/m<sup>3</sup>.

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

- 2) The system Squeezer L may be used to provide a penetration seal with specific supporting constructions and substrates (for details see Annex A).
- 3) The provisions made in this European Technical Assessment are based on an assumed working life of the Squeezer L of 10 years, provided that the conditions laid down in the manufacturers datasheet and instructions 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.
- 4) Type Y<sub>2</sub>: intended for use at temperatures below 0°C, but with no exposure to rain nor UV. Includes lower use categories.

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

Product-type: Pipe Collar		Intended use: Penetration Seal
	Basic Requirement	Performance
<b>BWR 1 Mechanical resistance and stability</b>		
	None	Not relevant
<b>BWR 2 Safety in case of fire</b>		
	Reaction to fire	No performance assessed
	Resistance to fire	Annex A
<b>BWR 3 Hygiene, health and environment</b>		
	Air permeability (material property)	No performance assessed
	Water permeability (material property)	No performance assessed
	Release of dangerous substances	Use categories: IA1, S/W3 Declaration of manufacturer
<b>BWR 4 Safety in use</b>		
	Mechanical resistance and stability	No performance assessed
	Resistance to impact/movement	No performance assessed
	Adhesion	No performance assessed
<b>BWR 5 Protection against noise</b>		
	Airborne sound insulation	No performance assessed
<b>BWR 6 Energy economy and heat retention</b>		
	Thermal properties	No performance assessed
	Water vapour permeability	No performance assessed
<b>General aspects relating to fitness for use</b>		
	Durability and serviceability	Y <sub>2</sub>

**4 ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (HEREINAFTER AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE**

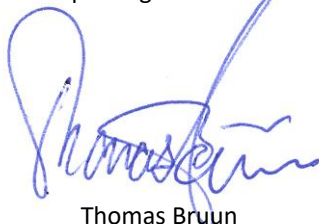
According to the decision 1999/454/EC – Commission Decision of date 22nd June 1999 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, see <http://eur-lex.europa.eu/JOIndex.do> of the European Commission<sup>1</sup>, 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).

<b>Product(s)</b>	<b>Intended use(s)</b>	<b>Level(s) or class(es)</b>	<b>System(s)</b>
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**

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 2021-04-23 by



Thomas Bruun

Managing Director, ETA-Danmark

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<sup>1</sup> Official Journal of the European Communities L178/52 of 14/7/1999

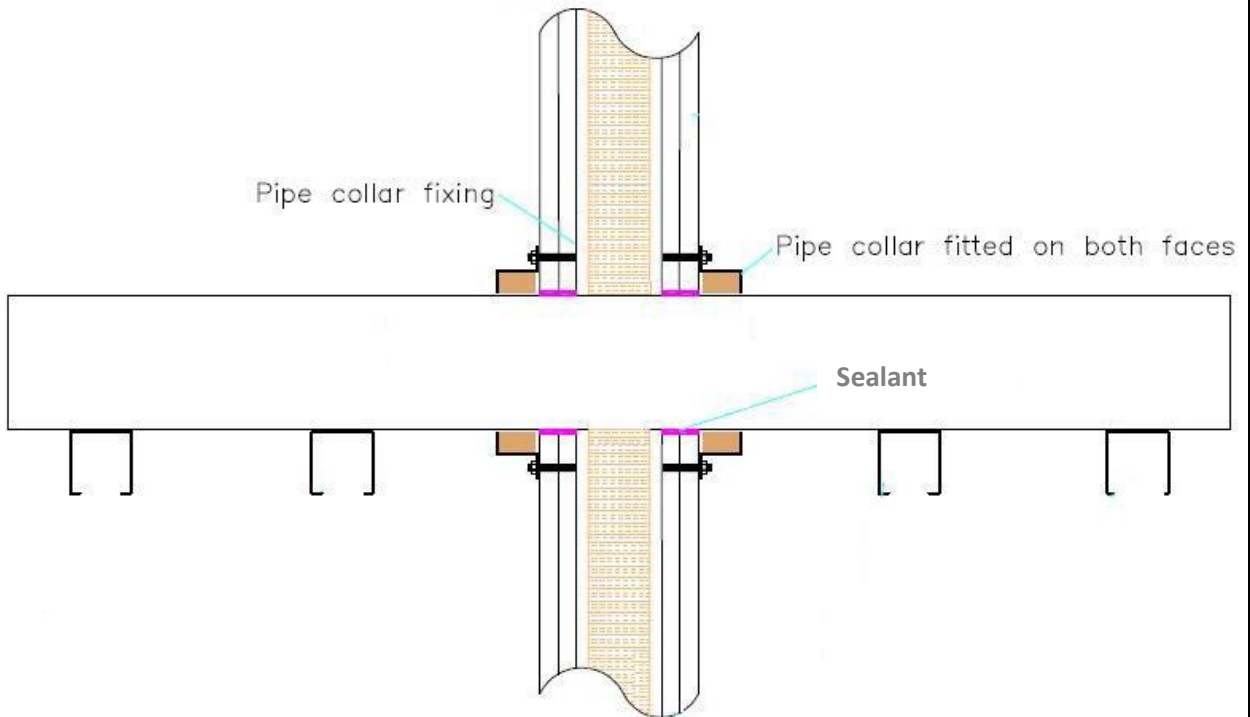
## ANNEX A – Resistance to Fire Classification – Squeezer L

### A.1 Flexible or rigid wall constructions with wall thickness of minimum 100 mm

#### A.1.1 Penetration seals, in drywalls and concrete/masonry walls

**Penetration Seal:** Insulated metal and combustible pipes and telecoms cables fitted with Squeezer L to both sides of the wall.

Construction details:





**A.1.1.1**

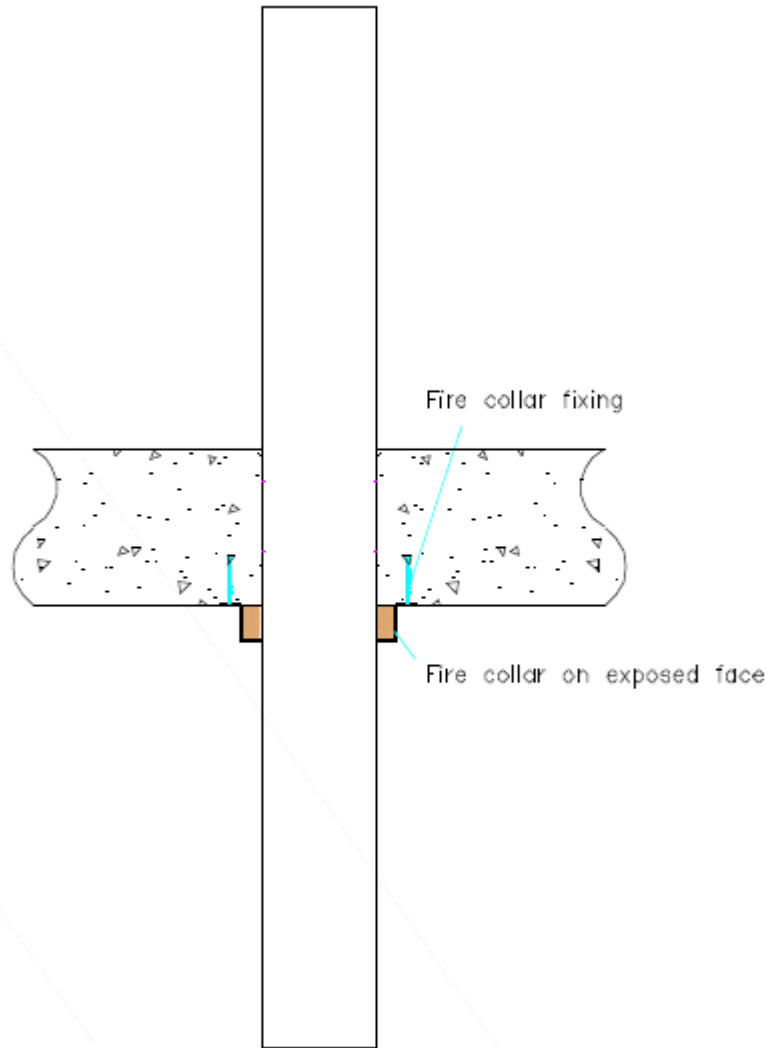
<b>Services</b>	<b>Collar Inlay</b>	<b>Classification</b>
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1		
Diameter 32 mm, wall thickness 3-3.2 mm	50 x 4 mm	<b>EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C</b>
Diameter 38 mm, wall thickness 3-3.2 mm		
Diameter 40 mm, wall thickness 3-3.2 mm		
Diameter 42.2 mm, wall thickness 3.2 mm		
Diameter 46 mm, wall thickness 3.2 mm		
Diameter 48.3 mm, wall thickness 3.2 mm		
Diameter 50 mm, wall thickness 3.2 mm		
Diameter 55 mm, wall thickness 3.2 mm		
Diameter 82 mm, wall thickness 3.2 mm		
Diameter 110 mm, wall thickness 6.6 mm	50 x 8 mm	
Diameter 160 mm, wall thickness 9.5 mm	60 x 12 mm	
Diameter 160 mm, wall thickness 3.2 mm	60 x 18 mm	
Diameter 200 mm, wall thickness 3.9 mm	125 x 20 mm	
PE pipe according to EN 1519-1, EN 12201-2 and EN 12FX 4006-1, ABS pipe according to EN 1455-1 and SAN+PVC pipe according to EN 1565-1		
Diameter 32 mm, wall thickness 3.7-4.6 mm	50 x 4 mm	<b>EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C</b>
Diameter 38 mm, wall thickness 3.7-4.6 mm		
Diameter 40 mm, wall thickness 3.7-4.6 mm		
Diameter 42.2 mm, wall thickness 4.6 mm		
Diameter 46 mm, wall thickness 4.6 mm		
Diameter 48.3 mm, wall thickness 4.6 mm		
Diameter 50 mm, wall thickness 4.6 mm		
Diameter 75 mm, wall thickness 6.8 mm	50 x 6 mm	<b>EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C</b>
Diameter 75 mm, wall thickness 5.1 mm	50 x 8 mm	<b>EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C</b>
Diameter 90 mm, wall thickness 5.1 mm	50 x 8 mm	
Diameter 110 mm, wall thickness 6.2	50 x 8 mm	<b>EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C</b>
Diameter 110 mm, wall thickness 10 mm	50 x 8 mm	<b>EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C</b>
Diameter 160 mm, wall thickness 7 mm	60 x 17 mm	<b>EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C</b>
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1 with 19 mm Armaflex insulation		
Diameter 55 mm, wall thickness 2 mm	50 x 8 mm	<b>E 120 U/U, E 120 C/U, E 120 U/C, E 120 C/C</b> <b>EI 90 U/U, EI 90 C/U, EI 90 U/C, EI 90 C/C</b>
Copper with 19 mm thick Armaflex insulation		
Diameter 54 mm, wall thickness 0.8-14.2 mm	50 x 8 mm	<b>E 120 U/U, E 120 C/U, E 120 U/C, E 120 C/C</b> <b>EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C</b>
Telecoms cables up to 21 mm diameter in bundles up to 100 mm diameter^		
Up to 21 mm diameter in bundles up to 100 mm diameter^	50 x 8 mm	<b>E 120, EI 90</b>
Up to 21 mm diameter in bundles up to 100 mm diameter^ wrapped with 300 mm long Insuwrap material		<b>EI 120</b>

**A.2 Rigid floor constructions with floor thickness of minimum 150 mm**

**A.2.1 Penetration seals, in concrete floors**

**Penetration Seal:** Combustible pipes fitted with Squeezer L to the soffit of the floor.

Construction details:



**A.2.1.1**

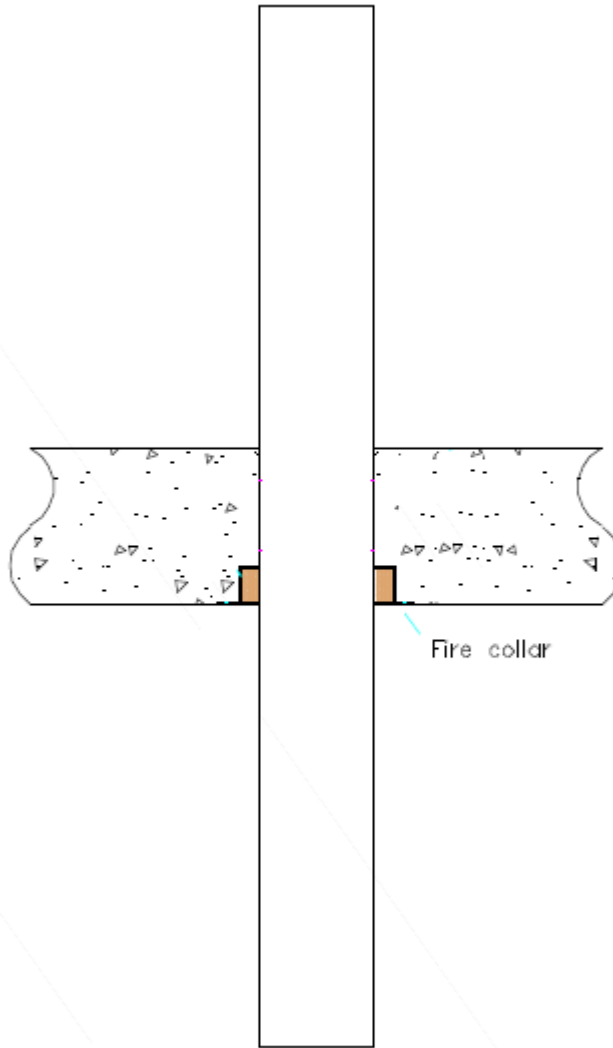
<b>Services</b>	<b>Collar Inlay</b>	<b>Classification</b>
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1		
Diameter 32 mm, wall thickness 3 mm	50 x 4 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 38 mm, wall thickness 3 mm		
Diameter 40 mm, wall thickness 3 mm		
Diameter 42.2 mm, wall thickness 2 mm		EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 46 mm, wall thickness 2 mm		
Diameter 48.3 mm, wall thickness 2 mm		
Diameter 50 mm, wall thickness 2 mm		
Diameter 55 mm, wall thickness 2 mm		
Diameter 82 mm, wall thickness 3.2 mm	50 x 6 mm	
Diameter 110 mm, wall thickness 6.6 mm	50 x 8 mm	
Diameter 160 mm, wall thickness 9.5 mm	60 x 18 mm	
Diameter 200 mm, wall thickness 3.9 mm	125 x 20 mm	
PE pipe according to EN 1519-1, EN 12201-2 and EN 12FX 4006-1, ABS pipe according to EN 1455-1 and SAN+PVC pipe according to EN 1565-1		
Diameter 32 mm, wall thickness 3.7 mm	50 x 4 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 38 mm, wall thickness 3.7 mm		
Diameter 40 mm, wall thickness 3.7 mm		
Diameter 75 mm, wall thickness 8.2 mm	50 x 8 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 110 mm, wall thickness 8.2 mm		
Diameter 160 mm, wall thickness 6.2 mm	60 x 18 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C

**A.3 Rigid floor constructions with floor thickness of minimum 150 mm**

**A.3.1 Penetration seals, in concrete floors**

**Penetration Seal:** Combustible pipes fitted with Squeezer L to the recessed/cast in, within the soffit of the floor.

Construction details:



**A.3.1.1**

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1		
Diameter 110 mm, wall thickness 3.2 mm	50 x 8 mm	EI 90 U/U, EI 90 C/U, EI 90 U/C, EI 90 C/C
Diameter 200 mm, wall thickness 3.9 mm	125 x 20 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C