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Member of EOTA
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European Technical Assessment

ETA 17/0455
of 2024-12-04

General Part

Technical Assessment Body issuing the European Technical Assessment:	RISE Research Institutes of Sweden AB
Trade name of the construction product	Bostik FP405 Silmax Pro
Product family to which the construction product belongs	Fire stopping sealant
Manufacturer	Bostik AB Box 903 SE-251 09 Helsingborg, Sweden www.bostik.se
Manufacturing plant(s)	Bostik GmbH In der Industriestraße 3 - 11 DE-33829 Borgholzhausen, Germany
This European Technical Assessment contains	13 pages including 1 Annex which form an integral part of this assessment.
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	EAD 350141-00-1106
This version replaces	ETA 17/0455 2017-08-22

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Specific parts

1 Technical description of the product

Bostik FP405 Silmax Pro is a one component fire retardant sealant based on a silyl modified polymer (SMP). The sealant is flexible after curing and achieves 25 LM CC. It is delivered in several colours in 600 ml aluminium foil sausage. The sealant is applied using a sealing gun suitable for foil sausages.

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

Bostik FP405 Silmax Pro is intended to be used as a fire stopping sealant for movement as well as non-movement joints and seals in walls, floors as well as wooden or metal frame supplements in buildings.

Bostik FP405 Silmax Pro may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (appropriate backing material) to achieve the stated fire performance. Detailed information and data is given in Annex 1.

The performances given in Section 3 and the assumed working life are only valid if the periodic inspection and maintenance are made according to the manufacturers instructions.

The provisions made in this European Technical Assessment are based on an assumed working life of Bostik FP405 Silmax Pro of 25 years. 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.

Type Y_2: Intended for use at temperatures below 0°C, but with no exposure to rain or UV.

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

3.1 Essential characteristics and their performance

		Characteristic	Performance
BWR 2	Safety in case of fire	Reaction to fire	Class E according to EN 13501-1
		Resistance to fire	See Annex 1 (Class according to EN 13501-2)
BWR 3	Hygiene, health and the environment	Content, emission and/or release of dangerous substances	Performance not assessed
		Air permeability (material property)	Performance not assessed
		Water permeability (material property)	Performance not assessed
BWR 4	Safety and accessablity in use	Mechanical resistance and stability	Performance not assessed
		Resistance to impact/movement	Performance not assessed
		Adhesion	Performance not assessed
		Durability	Y_2 according to ISO 8339, ISO 8340, ISO 9047 & ISO 7390
		Movement capability	Performance not assessed
		Cycling of perimeter seals for curtain walls	Performance not assessed
		Compression set	Performance not assessed
		Linear expansion on setting	Performance not assessed
BWR 5	Protection against noise	Airbone sound insulation	Performance not assessed
BWR 6	Energy economy and heat retention	Thermal properties	Performance not assessed
		Water vapour permeability	Performance not assessed

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 (changed by 2001/596/EC) as amended of the European Commission , published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, of the European Commission the system(s) of assessment and verification of constancy of performance (see Annex V to the regulation (EU) No 305/2011) given in the following table apply:

Product	Intended use	Level or class	System
Fire Stopping and Fire Sealing Products	For fire compartmentation and/or fire protection or fire performance	Any	1
	For uses subject to regulations on reaction to fire	E	4

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 RISE.

Issued in Borås on 2024-12-04
By RISE Research Institutes of Sweden AB

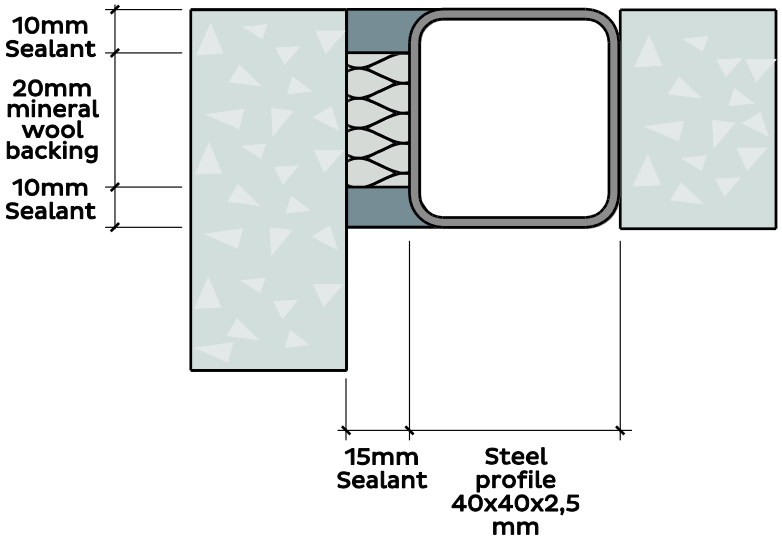
Martin Tillander
Director, Product certification

Annex 1

Resistance to Fire Classification of Bostik FP405 Silmax Pro

1.1 Flexibel or rigid wall constructions with wall thickness of minimum 40 mm

1.1.1 Linear seals, for gaps between steel profile and concrete in walls up to 3 m high or in rigid walls

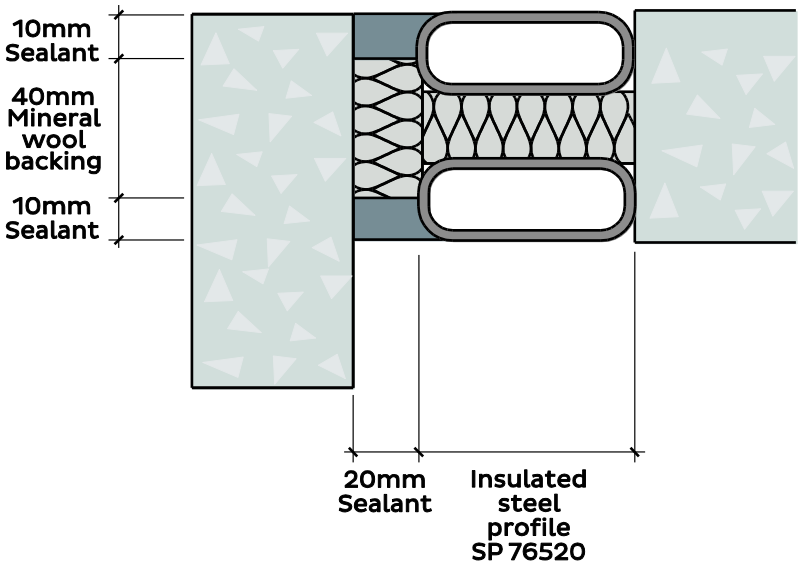
Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 15 mm	
Construction details:	

1.1.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Steel profile VKR 40 x 40 x 2,5 and concrete	10 min.	Minimum 20 mm mineral wool Paroc FPY 1	**E 15-V-X-F-W15**

1.2 Flexibel or rigid wall constructions with wall thickness of minimum 60 mm

1.2.1 Linear seals, for gaps between steel profile and concrete in walls up to 3 m high or in rigid walls

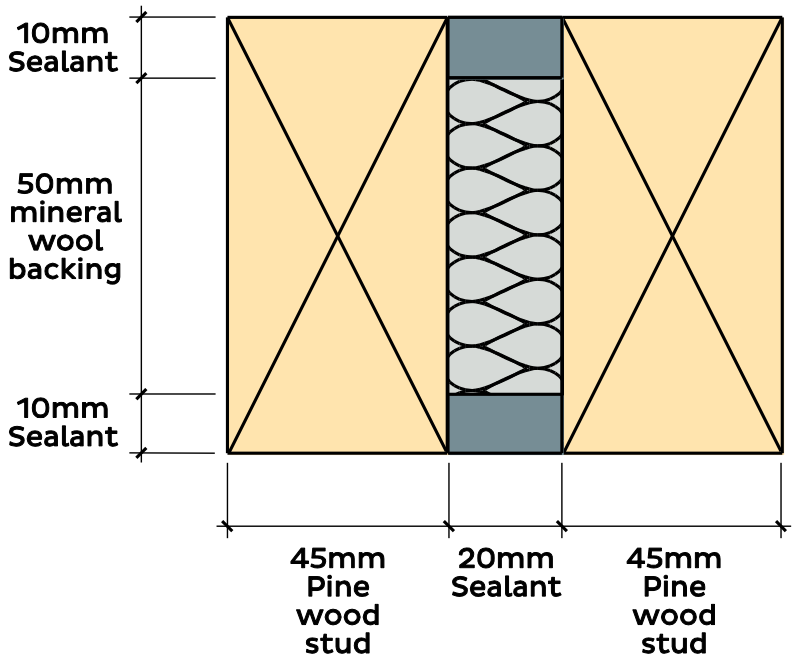
Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 20 mm	
Construction details:	

1.2.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Steel profile SP 76520 (Promatec insulation 25 mm) and concrete	10 min.	Minimum 40 mm Mineral wool Paroc FPY 1	**EI 30-V-X-F-W20** **E 60-V-X-F-W20**

1.3 Flexibel or rigid wall constructions with wall thickness of minimum 70 mm

1.3.1 Linear seals, for gaps between wood studs in walls up to 3 m high or in rigid walls

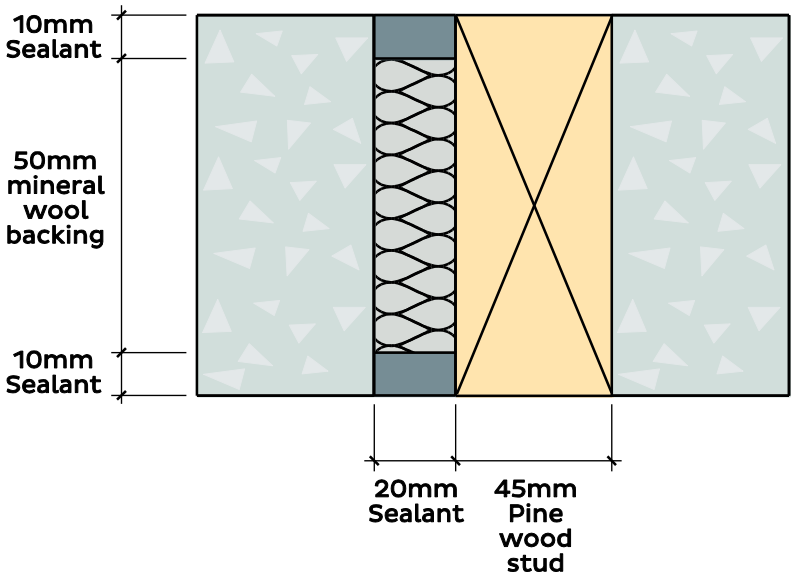
Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 20 mm	
Construction details:	

1.3.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Wood studs 70 x 45 mm	10 min.	Minimum 50 mm Mineral wool Paroc FPY 1	**EI 90-V-X-F-W20**

1.4 Flexibel or rigid wall constructions with wall thickness of minimum 70 mm

1.4.1 Linear seals, for gaps between wood stud and concrete in walls up to 3 m high or in rigid walls

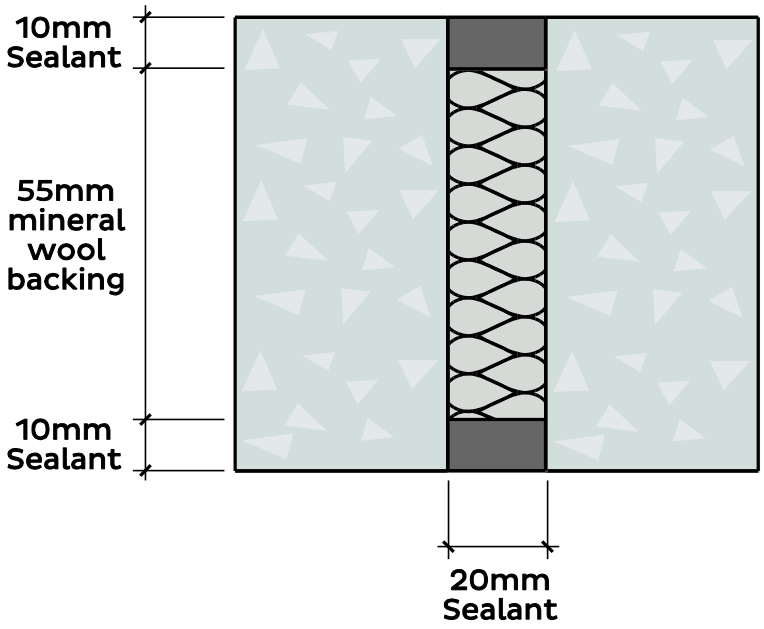
Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 20 mm	
Construction details:	

1.4.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Wood stud 70 x 45 mm and concrete	10 min.	Minimum 50 mm Mineral wool Paroc FPY 1	**EI 60-V-X-F-W20** **E 90-V-X-F-W20**

1.5 Flexibel or rigid wall constructions with wall thickness of minimum 75 mm

1.5.1 Linear seals, for gaps between concrete in walls up to 3 m high or in rigid walls

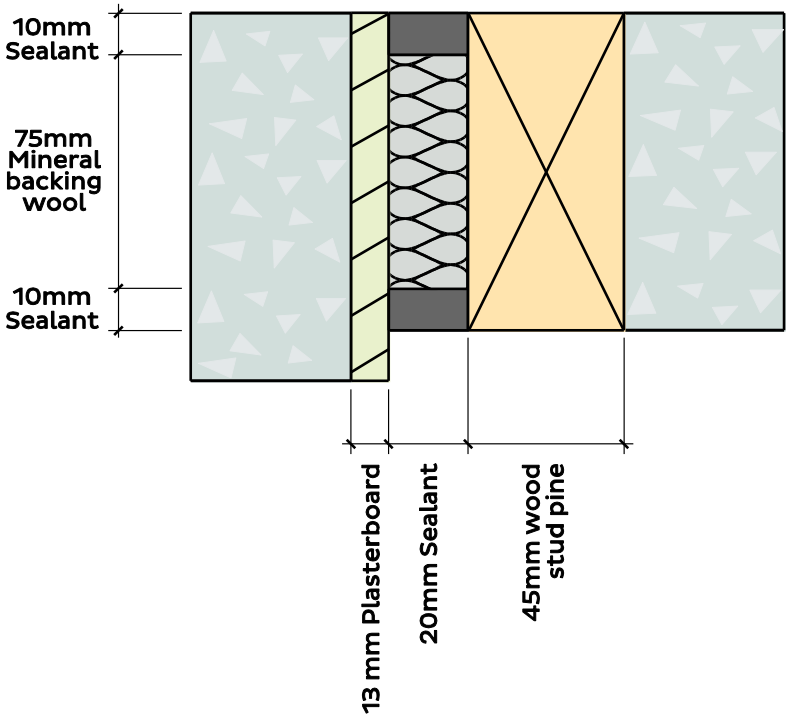
Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 20 mm	
Construction details:	

1.5.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Concrete	10 min.	Minimum 55 mm Mineral wool Paroc FPY 1	**EI 90-V-X-F-W20** **E 120-V-X-F-W20**

1.6 Flexibel or rigid wall constructions with wall thickness of minimum 95 mm

1.6.1 Linear seals, for gaps between gypsum board and wood stud in walls up to 3 m high or in rigid walls

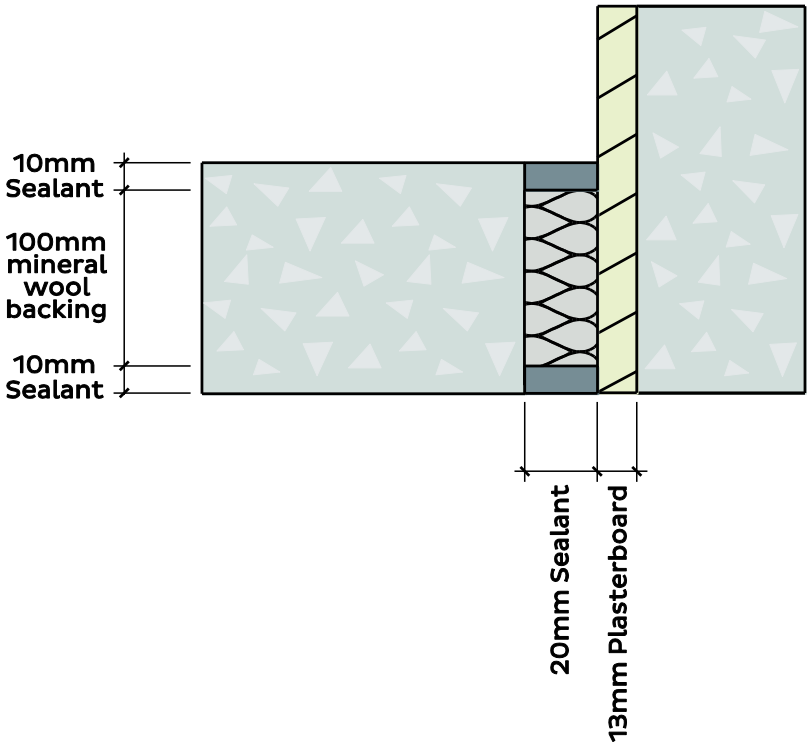
Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 20 mm	
Construction details:	

1.6.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Gypsum board and wood stud 95 x 45 mm	10 min.	Minimum 75 mm Mineral wool Paroc FPY 1	**EI 90-V-X-F-W20**

1.7 Flexibel or rigid wall constructions with wall thickness of minimum 120 mm

1.7.1 Linear seals, for gaps between gypsum board and concrete in walls up to 3 m high or in rigid walls

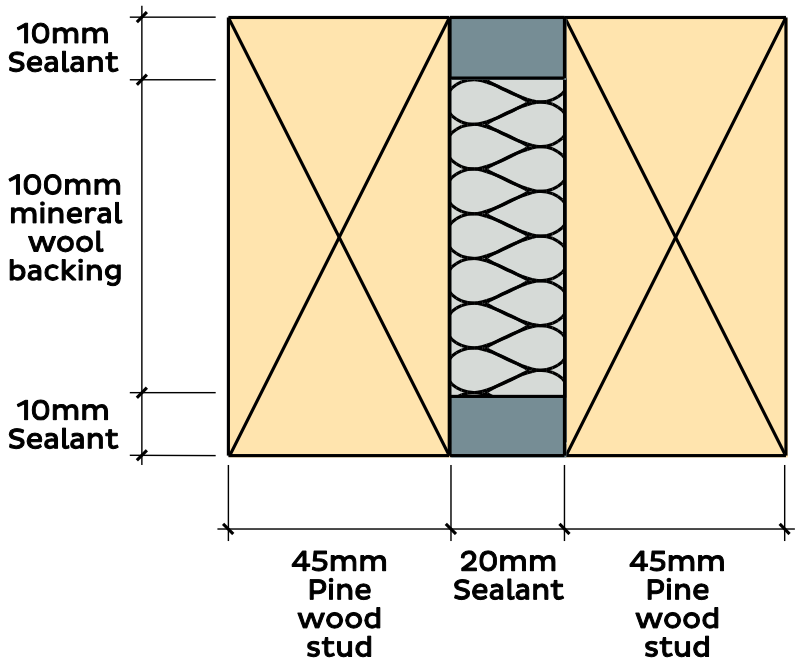
Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 20 mm	
Construction details:	

1.7.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Gypsum board and concrete	10 min.	Minimum 100 mm Mineral wool Paroc FPY 1	**EI 120-V-X-F-W20**

1.8 Flexibel or rigid wall constructions with wall thickness of minimum 120 mm

1.8.1 Linear seals, for gaps between wood studs in walls up to 3 m high or in rigid walls

Gap seal: Bostik FP405 Silmax Pro to both sides of the wall, gap widths up to 20 mm	
Construction details:	

1.8.2

Substrate	**Depth (mm)**	**Backing**	**Classification**
Wood studs 120 x 45 mm	10 min.	Minimum 100 mm Mineral wool Paroc FPY 1	**EI 120-V-X-F-W20**