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## European Technical Assessment

**ETA-17/0778**  
of 02.11.2017

General part

**Technical Assessment Body issuing the European Technical Assessment**

Österreichisches Institut für Bautechnik (OIB)  
Austrian Institute of Construction Engineering

**Trade name of the construction product**

System FIRESTOP-S

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

Fire Stopping and Fire Sealing Products:  
Linear Joint and Gap Seals

**Manufacturer**

SIA Knauf  
Daugavas iela 4  
2118 Saurieši, Stopiņu novads  
LATVIA

**Manufacturing plant**

KNAUF Plant B

**This European Technical Assessment contains**

16 pages including Annexes A-1 to D-2 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**

Guideline for European technical approval for "Fire Stopping and Fire Sealing Products", ETAG 026 Part 3: "Linear Joint and Gap Seals", edition August 2011, used as European Assessment Document (EAD)

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Specific parts

## 1 Technical description of the product

“System FIRESTOP-S” is a kit to be used as a linear joint and gap seal based on the following components.

Component of “System FIRESTOP-S”	Characteristics
FPS – Fire Protection Silicone	Elastic RTV-1 silicone (room-temperature cross-linkage, 1-component, oxime system) with intumescent fire protection additives (fire protection silicone)

Additional components	Characteristics
Backfilling material	PE / PUR round cords or mineral wool, depending on the type of application. For details see Annex A-1 and B-1 to D-2 of the ETA.

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

### 2.1 Intended use

“System FIRESTOP-S” is intended to be used as a linear joint and gap seal to reinstate the fire resistance performance of rigid wall constructions and rigid floor constructions at linear gaps/joints within those constructions or where they are abutting another wall or floor/ceiling/roof construction.

The maximum gap/joint width of the linear joint and gap seal has to comply with the dimensions as specified in the following table.

“System FIRESTOP-S” can be installed only in construction elements as specified in the following table.

Construction-element	Construction
Rigid walls	<ul style="list-style-type: none"> <li>&gt; Aerated concrete, concrete, reinforced concrete, masonry</li> <li>&gt; Minimum density 450 kg/m<sup>3</sup></li> <li>&gt; Minimum thickness 100 mm</li> <li>&gt; The rigid wall shall be classified in accordance with EN 13501-2 for the required fire resistance period</li> <li>&gt; Maximum joint width 40 mm</li> </ul>
Rigid floors	<ul style="list-style-type: none"> <li>&gt; Aerated concrete, concrete, reinforced concrete</li> <li>&gt; Minimum density 450 kg/m<sup>3</sup></li> <li>&gt; Minimum thickness 150 mm</li> <li>&gt; The rigid floor shall be classified in accordance with EN 13501-2 for the required fire resistance period</li> <li>&gt; Maximum joint width 40 mm</li> </ul>



## **2.2 Use category**

“System FIRESTOP-S” is intended for use in conditions exposed to weathering, and can therefore – according to ETAG 026-Part 3 clause 2.4.13.1.1.3.3 – be categorized as Type X. Since the requirements for Type X are met, also the requirements for Type Y<sub>1</sub>, Y<sub>2</sub>, Z<sub>1</sub> and Z<sub>2</sub> are fulfilled.

## **2.3 Working life**

The provisions made in this European Technical Assessment are based on an assumed working life of “System FIRESTOP-S” of 10 years, provided the conditions laid down in the technical literature of the manufacturer relating to packaging, transport, storage, installation, use and repair are met.

The indications given on the intended 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 selecting the appropriate product in relation to the expected economically reasonable working life of the works.

The real working life might be, in normal use conditions, considerably longer without major degradation affecting the Basic requirements for construction works.

## **2.4 General assumptions**

It is assumed that damages to the linear joint and gap seal are repaired accordingly.

## **2.5 Manufacturing**

The European Technical Assessment is issued for the product on the basis of agreed data / information, deposited with the Österreichisches Institut für Bautechnik, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data / information being incorrect, should be notified to the Österreichisches Institut für Bautechnik before the changes are introduced.

The Österreichisches Institut für Bautechnik will decide whether or not such changes affect the European Technical Assessment and consequently the validity of the CE marking on the basis of the European Technical Assessment and if so whether further assessment or alterations to the European Technical Assessment, shall be necessary.

## **2.6 Installation**

The product shall be installed and used as described in this European Technical Assessment.

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

Basic requirements for construction works	Essential characteristic	Method of verification	Performance
<b>BWR 2</b>	Reaction to fire	EN 13501-1:2007+A1:2009	Clause 3.1.1 of the ETA
	Resistance to fire	EN 13501-2:2007+A1:2009	Annex B-1 to D-2 of the ETA
<b>BWR 3</b>	Air permeability (material property)	No performance assessed	
	Water permeability (material property)	No performance assessed	
	Content and/or release of dangerous substances	European Council Directive 67/548/EEC and Regulation (EC) No 1272/2008 as well as EOTA TR 034, edition October 2015	Declaration of conformity by the manufacturer
<b>BWR 4</b>	Mechanical resistance and stability	No performance assessed	
	Resistance to impact / movement	No performance assessed	
	Adhesion	No performance assessed	
<b>BWR 5</b>	Airborne sound insulation	No performance assessed	
<b>BWR 6</b>	Thermal properties	No performance assessed	
	Water vapour permeability	No performance assessed	

#### 3.1 Safety in case of fire (BWR 2)

##### 3.1.1 Reaction to fire

The components of "System FIRESTOP-S" were assessed according to ETAG 026-Part 3 clause 2.4.1 and classified according to EN 13501-1:2007+A1:2009.

Component	Class according to EN 13501-1:2007+A1:2009
FPS – Fire Protection Silicone	E

##### 3.1.2 Resistance to fire

"System FIRESTOP-S" was tested according to ETAG 026-Part 3 clause 2.4.2, EN 1366-4:2006+A1:2010 in conjunction with EN 1363-1:1999-10, installed within linear joints in rigid walls and rigid floors.

Based upon the gained test results and the field of application specified within EN 1366-4:2006+A1:2010 in conjunction with EN 1363-1:1999-10 "System FIRESTOP-S" has been classified according to EN 13501-2:2007+A1:2009.

The resistance to fire classification listed in Annex B-1 to D-2 of the ETA is only valid if "System FIRESTOP-S" is installed according to Annex A-1 and B-1 to D-2 of the ETA.



### **3.2 Hygiene, health and environment (BWR 3)**

#### 3.2.1 Air permeability

No performance assessed.

#### 3.2.2 Water permeability

No performance assessed.

#### 3.2.3 Release of dangerous substances

According to the manufacturer's declaration the components of "System FIRESTOP-S" do not contain dangerous substances detailed in Council Directive 67/548/EEC and Regulation (EC) no 1272/2008 as well as EOTA TR 034 (General BWR 3 Checklist for EADs/ETAs – Dangerous substances), edition October 2015 above the acceptable limits.

A written declaration in this respect was submitted by the ETA-holder.

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.

### **3.3 Safety in use (BWR 4)**

#### 3.3.1 Mechanical resistance and stability

No performance assessed.

#### 3.3.2 Resistance to impact / movement

No performance assessed.

#### 3.3.3 Adhesion

No performance assessed.

### **3.4 Protection against noise (BWR 5)**

#### 3.4.1 Airborne sound insulation

No performance assessed.

### **3.5 Energy economy and heat retention (BWR 6)**

#### 3.5.1 Thermal properties

No performance assessed.

#### 3.5.2 Water vapour permeability

No performance assessed.

### 3.6 General aspects relating to fitness for use

All components of “System FIRESTOP-S” fulfil the requirements for the intended use category.

“System FIRESTOP-S” is therefore appropriate for conditions exposed to weathering and can – according to ETAG 026-Part 3 clause 2.4.13.1.1.3 – be categorized as Type X. Since the requirements for Type X are met, also the requirements for Type Y<sub>1</sub>, Y<sub>2</sub>, Z<sub>1</sub> and Z<sub>2</sub> are fulfilled.

## 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<sup>1</sup>, amended by Decision 2001/596/EC<sup>2</sup> of the European Commission the system(s) of assessment and verification of constancy of performance (see Annex V of Regulation (EU) No 305/2011) is given in the following table.

Product(s)	Intended use(s)	Level(s) or class(es) (resistance to fire)	System of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	for fire compartmentation and/or fire protection or fire performance	any	1

In addition, according to the Decision 1999/454/EC, amended by Decision 2001/596/EC of the European Commission the system(s) of assessment and verification of constancy of performance, with regard to reaction to fire, is 3.

Product(s)	Intended use(s)	Level(s) or class(es) (reaction to fire)	System of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	For uses subject to regulations on reaction to fire	A1*, A2*, B*, C*	1
		A1**, A2**, B**, C**, D, E	3
		(A1 to E)***, F	4
<p>* Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)</p> <p>** Products/materials not covered by footnote (*)</p> <p>*** Products/materials that do not require to be tested for reaction to fire (e.g. products/materials of class A1 according to Commission Decision 96/603/EC, as amended)</p>			

<sup>1</sup> Official Journal of the European Communities no. L 178, 14.7.1999, p. 52

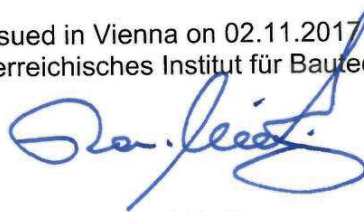
<sup>2</sup> Official Journal of the European Communities no. L 209, 2.8.2001, p. 33

**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 with the Technical Assessment Body Österreichisches Institut für Bautechnik.

The notified product certification body shall visit the factory at least once a year for surveillance of the manufacturer.

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by Österreichisches Institut für Bautechnik



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Managing Director