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

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European Technical Assessment

ETA 23/0088
of 31/03/2023

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011:	**UL International (Netherlands) B.V.**
Trade name of the construction product	Sika Backer Rod Fire
Product family to which the construction product belongs	Fire Stopping and Sealing Product: • Linear Joint and Gap Seals
Manufacturer	Sika Services AG Tuffenwies 16 Zurich, 8064 CH Switzerland
Manufacturing plant(s)	R/001
This European Technical Assessment contains	10 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	EAD 350141-00-1106, September 2017.

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

1) Sika Backer Rod Fire is a workable, mineral wool based backing material with a density of 250 kg/m^3, wrapped with a glass-fibre yarn and is used to form a linear joint seal with suitable sealants.

2) Sika Backer Rod Fire can be combined with any Sika sealant including Sika owned brands. Contact Sika Technical Services for further information.

3) The Sika Backer Rod Fire is supplied in rolls and is available and installed in the following dimensions:

Backer diameter mm	Joint width mm	Min. Sealant Depth mm	Min. compression ratio %
12	≤10.2	0.5 x joint width	15
15	≤12.75		
20	≤17		
30	≤25.5		
40	≤34		
50	≤42.5		
60	≤51		

4) Sika Backer Rod Fire can be spliced at ≥ 600 mm intervals with butt joints.

5) Sika Backer Rod Fire has been tested in accordance with EN 1366-4: 2021.

2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): EAD 350141-00-1106

Detailed information and data is given in Annex A.

1) The intended use of Sika Backer Rod Fire is to reinstate the fire resistance performance of gaps in and joints between rigid floors and between rigid floors and rigid wall constructions, gaps in and joints between rigid wall constructions.

2) The specific elements of construction that the system Sika Backer Rod Fire may be used to provide a linear joint or gap seal in, are as follows:

   a. Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete, concrete, blockwork or masonry with a minimum density of 760 kg/m^3.

   b. Rigid walls: The wall must have a minimum thickness of 150 mm and comprise concrete, aerated concrete, blockwork or masonry, with a minimum density of 760 kg/m^3.

   The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period. (for details see Annex A)

3) The system Sika Backer Rod Fire may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex A).

4) The maximum permitted joint/gap width for system Sika Backer Rod Fire is 51 mm.

5) The maximum movement capability of system Sika Backer Rod Fire is ≤ 7.5% (±)

6) The provisions made in this European Technical Assessment are based on an assumed working life of the Sika Backer Rod Fire of 25 years, provided that the conditions laid down in the product datasheet 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.

7) Type X: Intended for use exposed to free weathering. Includes lower classes Y_1, Y_2, Z_1, Z_2.

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

Product-type: Stone Wool	Intended use: Linear Joint & Gap Seal	
Basic requirement for construction work	Essential characteristic	Performance
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire*	A1
EN 13501-2	Resistance to fire	Annex A
BWR 3 Hygiene, health and environment		
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	No performance determined
EN 1026:2000	Air permeability (material property)	No performance determined
EAD 350141-00-1106, Annex C & EN 12390-8	Water permeability (material property)	No performance determined
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 ISO 11600 & EAD 350141-00-1106, Clause 2.2.13	Adhesion	No performance determined
EAD 350141-00-1106, Clause 2.2.12	Durability	X
EAD 350141-00-1106, Clause 2.2.13	Movement capacity	No performance determined
EAD 350141-00-1106, Clause 2.2.14	Cycling of perimeter seals for curtain walls	No performance determined
EAD 350141-00-1106, Clause 2.2.15	Compression set	No performance determined
EAD 350141-00-1106, Clause 2.2.16	Linear expansion on setting	No performance determined
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	No performance determined
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined
* Sika Backer Rod Fire only, where additional sealants are used, this will affect the reaction to fire class and data for the sealant needs to be consulted.		

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 https://eur-lex.europa.eu/oj/direct-access.html) 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 1st December 2021 relating to the European technical assessment ETA 23/0088 issued on 31/03/2023 which is part of the technical documentation of this European technical Assessment. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at UL International (Netherlands) B.V.

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

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

(b) Installation instruction:

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

6 Issued on:

31st March 2023

Report by:	Verified by:	Validated by:
C. Johnson	D. Yates	Erik Teubler
Senior Staff Engineer	Senior Project Engineer	Head of TAB
Built Environment	Built Environment	Built Environment

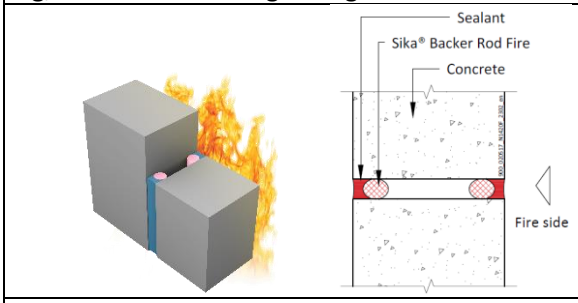
For and on behalf of UL International (Netherlands) B.V.

ANNEX A – Resistance to Fire Classification – Sika Backer Rod Fire

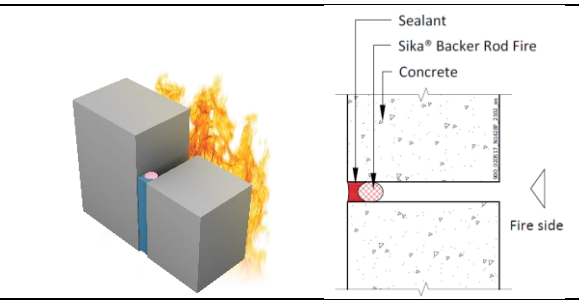
A.1 Rigid wall and floor constructions with thickness of minimum 150 mm

A.1.1 Vertical joint seals between walls

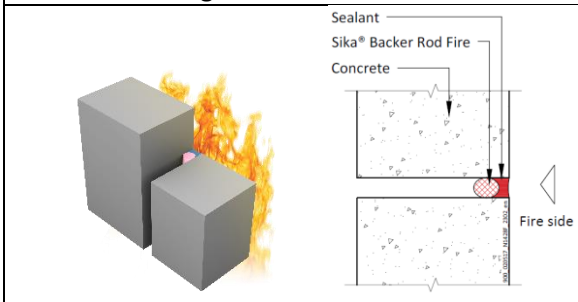
Sika Backer Rod Fire linear joint seals in/between rigid walls 150 mm or thicker and density ≥ 760 kg/m^3 in the following configurations:



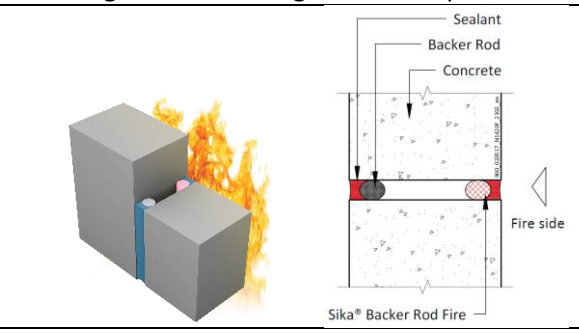
Configuration V1: Double seal



Configuration V2: Single seal unexposed side



Configuration V3:
Single seal, any position within the wall



Configuration V4:
Sika Backer Rod Fire + sealant* on any side and PE backer rod + sealant* on the opposite side

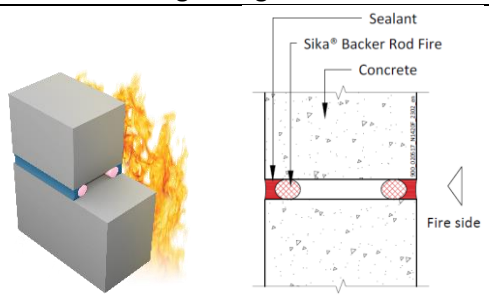
* Sealants as per 1.2

A.1.1.1

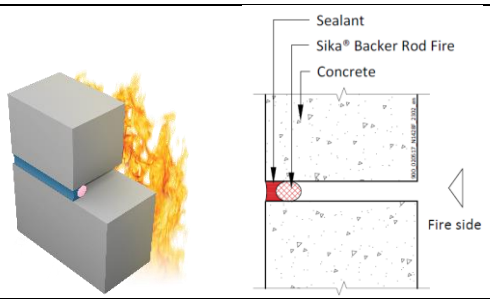
Configuration	Classification
V1	**EI 240 - V - X - F - W 7-51**
V2	**E 240 - V - X - F - W 7-51** **EI 120 - V - X - F - W 7-51**
V3	**E 240 - V - X - F - W 7-51** **EI 20 - V - X - F - W 7-51**
V4	**E 240 - V - X - F - W 7-51** **EI 120 - V - X - F - W 7-51**

A.1.2 Horizontal joint seals in walls

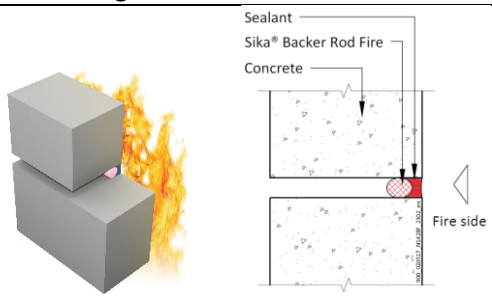
Sika Backer Rod Fire linear joint seals in/between rigid walls 150 mm or thicker and density ≥ 760 kg/m^3 in the following configurations:



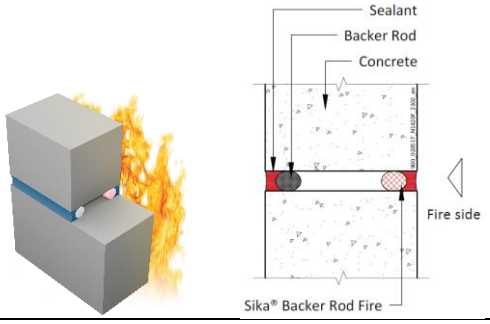
Configuration T1: Double seal



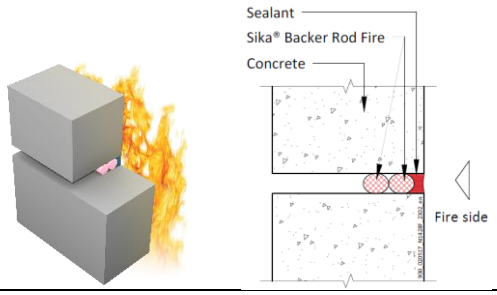
Configuration T2: Single seal unexposed side



Configuration T3:
Single seal, any position within the wall



Configuration T4:
Sika Backer Rod Fire + sealant* on any side and PE backer rod + sealant* on the opposite side



Configuration T5: Double backer rod, single seal. Any position within the wall

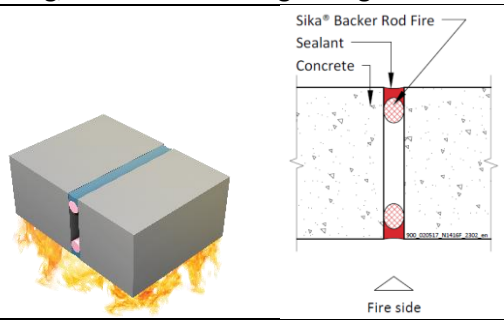
* Sealants as per 1.2

A.1.2.1

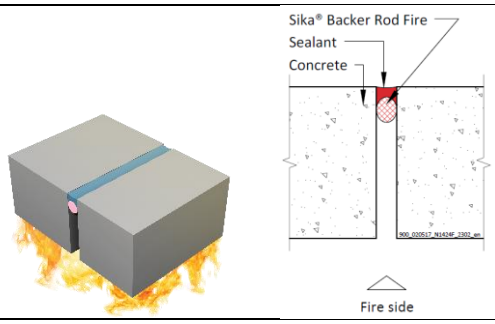
Configuration	Classification
T1	**EI 180 - T - X - F - W 7-51**
T2	**E 240 - T - X - F - W 7-51** **EI 90 - T - X - F - W 7-51**
T3	**E 120 - T - X - F - W 7-51** **EI 20 - T - X - F - W 7-51**
T4	**E 180 - T - X - F - W 7-51** **EI 90 - T - X - F - W 7-51**
T5	**E 180 - T - X - F - W 7-51** **EI 60 - T - X - F - W 7-51**

A.1.3 Horizontal joint seals in floors

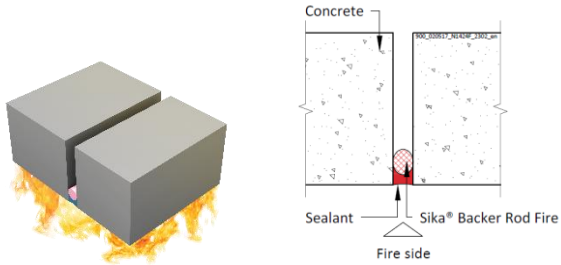
Sika Backer Rod Fire linear joint seals in/between rigid floors and walls 150 mm or thicker and density ≥ 760 kg/m^3 in the following configurations:



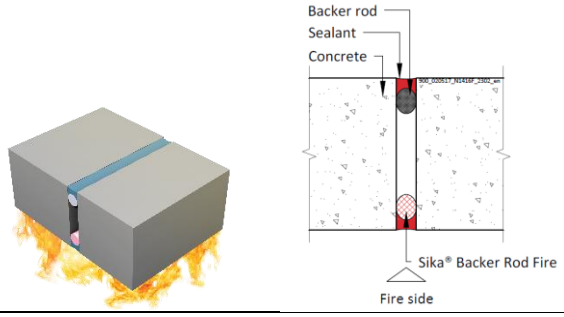
Configuration H1: Double seal



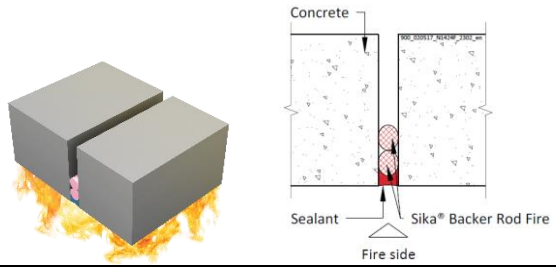
Configuration H2: Single seal unexposed side



Configuration H3:
Single seal, any position within the wall



Configuration H4:
Sika Backer Rod Fire + sealant* on any side and PE backer rod + sealant* on the opposite side



Configuration H5: Double backer rod, single seal. Any position within the wall

* Sealants as per 1.2

A.1.3.1

Configuration	Classification
H1	**EI 180 - H - X - F - W 7-51**
H2	**E 240 - H - X - F - W 7-51** **EI 90 - H - X - F - W 7-51**
H3	**E 120 - H - X - F - W 7-51** **EI 20 - H - X - F - W 7-51**
H4	**E 180 - H - X - F - W 7-51** **EI 90 - H - X - F - W 7-51**
H5	**E 180 - H - X - F - W 7-51** **EI 60 - H - X - F - W 7-51**