

European Technical Assessment

ETA 26/0553
of 2026/08/31



General Part

Technical Assessment Body issuing the European Technical Assessment:

Itecons - Instituto de Investigação e Desenvolvimento Tecnológico para a Construção, Energia, Ambiente e Sustentabilidade

Trade name of the construction product

Standard Solution Firestop Joint Spray SL-1000

Product family to which the construction product belongs

Fire Stopping and Fire Sealing Products – Linear Joint and Gap Seals
Product family code: 35

Manufacturer

Beijing Standard Solution Building Technology Co., Ltd.
423, 4th Floor, Building 8, Yard 2, Jinsui Road, Shunyi District, Beijing, China

Manufacturing plant(s)

Beijing Standard Solution Building Technology Co., Ltd.
423, 4th Floor, Building 8, Yard 2, Jinsui Road, Shunyi District, Beijing, China

This European Technical Assessment contains

11 pages including 3 Annexes which form an integral part of this assessment

This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of

EAD 350141-00-1106
Linear joint and gap seals

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction must be identified as such.

Specific parts

1. Technical description of the product

Standard Solution Firestop Joint Spray SL-1000, hereinafter referred to as SL-1000, is a membrane-forming coating used to form a linear joint or gap seal in combination with mineral wool used as backfilling material.

The product is intended to reinstate the fire resistance performance of internal linear joints and gaps in building elements.

Further details on SL-1000 and the specification of suitable mineral wool used as backfilling material are given in Annex A.

Details of the seal configuration depending on the orientation of the joint, the building elements forming the joint or gap, and the backfilling material, together with the corresponding fire resistance classifications, are provided in Annex B.

A description of the installation procedure is given in Annex C.

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

2.1 Intended use

SL-1000 is intended to prevent or restrict the passage of fire through gaps and linear joints (floor to floor and wall to wall).

SL-1000 is installed in internal linear gaps and joints, in combination with backfilling mineral wool, to form a linear joint or gap seal for non-movement joints (movement capability below 7.5%) and to reinstate the fire resistance performance of floor and wall constructions.

The specific construction elements between which SL-1000 may be used are as follows:

- a) Rigid floors: the floors must have a minimum thickness of 250 mm and comprise concrete, blockwork or masonry, with a minimum density of 2400 kg/m³.
- b) Rigid walls: the walls must have a minimum thickness of 250 mm and comprise concrete, blockwork or masonry, with a minimum density of 2400 kg/m³.

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

The maximum permitted joint or gap width for SL-1000 is 100 mm.

Precautions shall be taken to prevent a person from stepping onto a horizontal linear joint seal or falling against a vertical or sloped linear joint seal.

The provisions made in this European Technical Assessment (ETA) are based on an assumed working life of 10 years for SL-1000, provided that the conditions laid down in the manufacturer's datasheet and instructions regarding packaging, transport, storage, installation, use and repair are fulfilled. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer but are to be regarded only as a means for choosing appropriate products in relation to the expected economically reasonable working life of the works.

2.2 Use category

SL-1000 is intended for environmental conditions as defined by use category Type Z₂ in accordance with EAD 350141-00-1106, Clause 2.1.

Type Z₂: Products intended for uses at internal conditions with humidity lower than 85% RH excluding temperatures below 0 °C.

Special provisions, according to the manufacturer's instructions (see Annex C), shall be applied to temporarily protect the exposed linear joint seal during the construction phase until the building envelope is completed.

2.3 General assumptions

It is assumed that:

- damages to the linear joint or gap seal will be repaired accordingly,
- the installation of the linear joint or gap seal does not adversely affect the stability of the adjacent building element (even in case of fire).

2.4 Manufacturing

The European Technical Assessment is issued for the product on the basis of agreed data and information deposited with Itecons – Instituto de Investigação e Desenvolvimento Tecnológico para a Construção, Energia, Ambiente e Sustentabilidade, which identifies the product that has been assessed and judged.

Changes to the product or production process which could result in the deposited data or information becoming incorrect shall be notified to Itecons before such changes are introduced. Itecons will decide whether such changes affect the ETA and consequently the validity of the CE marking based on the ETA and, if so, whether further assessment or modifications to the ETA are necessary.

2.5 Design and installation

The installation instructions, including special installation techniques and provisions for the qualification of personnel, are given in the manufacturer's technical documentation.

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

The performance of SL-1000 with regard to the relevant Basic Work Requirements (BWR) has been assessed in accordance with EAD 350141-00-1106, "Linear joint and gap seals".

A summary of the assessed essential characteristics and the corresponding performance of the product is given in Table 1.

Further details on the assessment methods and the results obtained are provided in the following sections.

Table 1: Assessed essential characteristics and performance of SL-1000.

Basic Work Requirements	Essential characteristic	Assessment method	Performance
BWR 2	Reaction to fire	EN 13501-1	Class E
	Resistance to fire	EN 13501-2	See clause 3.2.2 of this ETA
BWR 3	Content, emission and/or release of dangerous substances	No performance assessed	
	Air permeability (material property)	EN 1026	See clause 3.3.2 of this ETA
	Water permeability (material property)	EAD 350141-00-1106 (Annex C)	Watertight up to 800 mm of water pressure
BWR 4	Mechanical resistance and stability	No performance assessed	
	Resistance to impact/movement	No performance assessed	
	Adhesion	No performance assessed	
	Durability	No performance assessed	
	Movement capability	No performance assessed	
	Cycling of perimeter seals for curtain walls	No performance assessed	
	Compression set	No performance assessed	
	Linear expansion on setting	No performance assessed	
BWR 5	Airborne sound insulation	No performance assessed	
BWR 6	Thermal properties	No performance assessed	
	Water vapour permeability	EN ISO 12572	$\mu = 3680$

3.1. Mechanical resistance and stability (BWR 1)

Not relevant.

3.2. Safety in case of fire (BWR 2)**3.2.1. Reaction to fire**

SL-1000 has been tested in accordance with EN ISO 11925-2 and classified in accordance with EN 13501-1.

SL-1000 is classified as “E” in accordance with EN 13501-1 and the EC Delegated Regulation (EU) 2016/364.

3.2.2. Resistance to fire

SL-1000 has been tested in accordance with EN 1366-4.

Based on the test results and the field of direct application specified in EN 1366-4, SL-1000 is classified as EI 180-H-X-W90 to W100 and EI 180-T-X-W90 to W100 for resistance to fire, in accordance with EN 13501-2, as detailed in Annex B.

3.3. Hygiene, health and environment (BWR 3)**3.3.1. Content, emission and/or release of dangerous substances**

No performance assessed.

3.3.2. Air permeability

The leakage rate of the SL-1000 has been determined on a joint configuration with overall dimensions of the membrane of 1040 mm x 140 mm x 3 mm (length x width x wet film thickness) and 100 mm of mineral wool depth, in accordance with EAD 350141-00-1106, Clause 2.2.4, applying the test principle of EN 1026. The measured leakage rate includes both the permeability of the seal itself and of the interface between the seal and the surrounding construction. The results are presented in Table 2.

Table 2: Air permeability results.

Pressure differential [Pa]	Results under positive chamber pressure			Results under negative chamber pressure		
	Leakage rate [m ³ /h]	Leakage rate per unit area [m ³ /(h·m ²)]	Leakage rate per unit length [m ³ /(h·m)]	Leakage rate [m ³ /h]	Leakage rate per unit area [m ³ /(h·m ²)]	Leakage rate per unit length [m ³ /(h·m)]
50	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01
100	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01
150	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01
200	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01
250	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01
300	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01
450	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01
600	< 0.01	< 0.1	< 0.01	< 0.01	< 0.1	< 0.01

3.3.3. Water permeability

The water permeability has been tested using the principles of the test procedure described in Annex C.2 of EAD 350141-00-1106. The test specimen consisted of a 3 mm SL-1000 (wet film thickness) applied over mineral wool with a density of 100 kg/m³ compressed by 20%-30%.

The product is watertight up to 800 mm of water pressure.

3.4. Safety and accessibility in use (BWR 4)

3.4.1. Mechanical resistance and stability

No performance assessed.

3.4.2. Resistance to impact/movement

No performance assessed.

3.4.3. Adhesion

No performance assessed.

3.4.4. Durability

No performance assessed.

3.4.5. Movement capability

No performance assessed.

3.4.6. Cycling of perimeter seals for curtain walls

No performance assessed.

3.4.7. Compression set

No performance assessed.

3.4.8. Linear expansion on setting

No performance assessed.

3.5. Protection against noise (BWR 5)

3.5.1. Airborne sound insulation

No performance assessed.

3.6. Energy economy and heat retention (BWR 6)

3.6.1. Thermal properties

No performance assessed.

3.6.2. Water vapour permeability

The water vapour permeability has been tested in accordance with EN ISO 12572.

The water vapour resistance factor of SL-1000 is $\mu = 3680$.

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 of the European Commission as amended by the European Commission Decision 2001/596/EC, the system of assessment and verification of constancy of performance (AVCP) applicable to this product (see Annex V to Regulation (EU) No 305/2011) is **System 1**.

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

This ETA is issued on the basis of agreed data and information deposited with Itecons, which identifies the product that has been assessed and judged. It is the manufacturer's responsibility to ensure that all users of the product are appropriately informed of the specific conditions laid down in this ETA.

5.1. Tasks of the manufacturer

5.1.1. Factory production control

The manufacturer shall exercise permanent internal control of production of concerned product. 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 obtained. This production control system shall ensure that the product is in conformity with this European Technical Assessment.

The manufacturer may only use constituent materials stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control Plan which is part of the technical documentation of this European Technical Assessment. The Control Plan has been agreed between the manufacturer and Itecons and is laid down in the context of the factory production control system operated by the manufacturer and deposited with Itecons. The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

5.1.2. Other tasks for the manufacturer

The manufacturer shall, on the basis of a contract, involve a body which is notified for the tasks referred to in section 4 of this ETA in the field of fire stopping, fire sealing and fire protective products in order to undertake the actions laid down in this clause.

Any changes to the product or its production process shall be notified to Itecons prior to implementation. Itecons will decide whether such changes affect the ETA and consequently the validity of the CE marking based on the ETA and, if so, whether further assessment or modifications to the ETA are necessary.

5.2. Tasks of the Notified Body (bodies)

5.2.1. Initial inspections of factory and of factory production control

The Notified Body shall ascertain that, in accordance with the Control Plan, the manufacturing plant, in particular the personnel and equipment, and the factory production control are suitable to ensure a continuous and orderly manufacturing of the SL-1000, according to the specifications mentioned in this ETA.

5.2.2. Continuous surveillance, assessment and evaluation of factory production control

Within the scope of continuous surveillance, assessment and evaluation of factory production control, the Notified Body (bodies) shall make provisions to verify that the factory production control is maintained in accordance with the provisions laid down in the Control Plan.

The Notified Body (bodies) shall retain the essential points of its (their) actions referred to above and state the results obtained and conclusions drawn in a written report. The Notified Body involved by the manufacturer shall issue a certificate of constancy of performance of the product stating the conformity with the provisions of this ETA.

In cases where the provisions of the ETA and its Control Plan are no longer fulfilled, the Notified Body shall withdraw the certificate of constancy of performance and inform Itecons without delay.

Issued in Coimbra on 31.08.2026

By

Technical Assessment Unit of

Itecons – Instituto de Investigação e Desenvolvimento Tecnológico para a Construção, Energia,
Ambiente e Sustentabilidade



Andreia Gil
Senior Official

(Technical Assessment Unit Coordinator)



Validated document

(Administration)

Annex A: Description of the product and ancillary product(s)

A.1. SL-1000

SL-1000 is a one-component product based essentially on filling substances and an acrylic binder. The product is supplied in 19-litre pails/buckets and is available in various colours.

The product is intended for use as a linear joint seal in non-movement joints (movement capability $\leq 7.5\%$) in internal floor and wall constructions, in order to reinstate the fire resistance performance of the construction element.

The assessed joint width ranges up to 100 mm.

The product is applied with a wet film thickness of 3 mm and overlaps the adjacent construction by at least 20 mm on each side of the joint.

As backing material, a mineral wool product as specified in Annex A.2.1 is used. The mineral wool is installed with a compression of 20%–30% and to a minimum depth of 200 mm.

A.2. Ancillary product(s)

A.2.1. Mineral wool

Mineral wool products suitable for being used as backfilling material shall meet the following characteristics.

Table 3: Mineral wool products suitable for being used as backfilling material.

Characteristics	Specification
Type	Mineral wool in accordance with EN 13162 or EN 14303
Density	$\geq 60 \text{ kg/m}^3$
Facing	No Al-facing, no other facing
Reaction to fire class	A1 according to EN 13501-1
Melting point	$\geq 1000^\circ\text{C}$

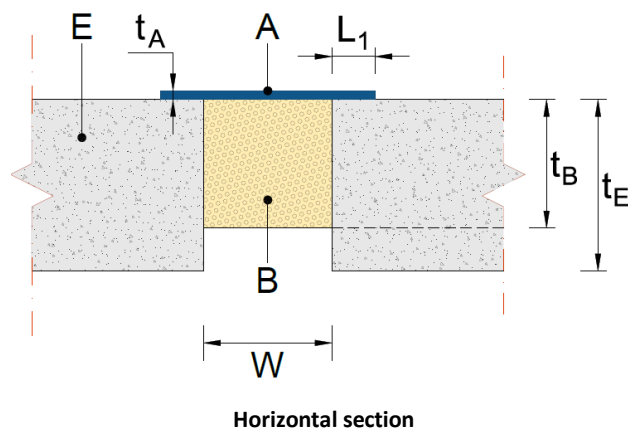
Annex B: Resistance to fire classification of SL-1000

B.1. Rigid floor constructions with a minimum thickness of 250 mm

B.1.1. Linear joints or gap seals in a horizontal construction

Joint/gap seal description: SL-1000 applied to top side of the floor, exposure from underside only, backed with mineral wool, installed flush with floor surface, floor thickness ≥ 250 mm, without movement capability

Construction details:



Key:

- A – SL-1000
- B – Backfilling material (mineral wool)
- E – Building element (floor)
- L_1 – SL-1000 overlap
- t_A – Thickness of SL-1000
- t_B – Backfilling material depth
- t_E – Thickness of the building element / joint depth
- w – Joint width

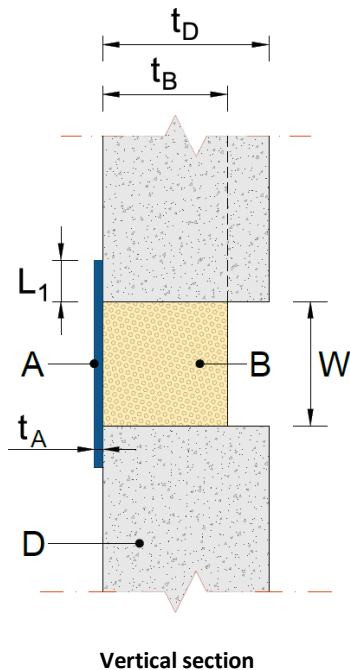
Supporting construction	Seal thickness	Seal overlap	Seal position	Backing material	Joint width	Classification
Concrete / Blockwork / Masonry $t_E \geq 250$ mm $\rho \geq 2400$ kg/m ³	$t_A \geq 2$ mm (dry film thickness)	$L_1 \geq 20$ mm	Flush with the floor surface (unexposed face)	Mineral wool $t_B \geq 200$ mm $\rho \geq 60$ kg/m ³ compressed $\geq 20\%$	≤ 100 mm	EI 180-H-X-W 90 to W 100

B.2. Rigid wall constructions with a minimum thickness of 250 mm

B.2.1. Horizontal linear joints or gap seals in a vertical construction

Joint/gap seal: SL-1000 applied to one side of the wall, exposure from the opposite side only, backed with mineral wool, installed flush with wall surface, wall thickness ≥ 250 mm, without movement capability

Construction details:



Key:

A – SL-1000

B – Backfilling material (mineral wool)

D – Building element (wall)

L₁ – SL-1000 overlap

t_A – Thickness of SL-1000

t_B – Backfilling material depth

t_E – Thickness of the building element / joint depth

w – Joint width

Supporting construction	Seal thickness	Seal overlap	Seal position	Backing material	Joint width	Classification
Concrete / Blockwork / Masonry t _E $\geq$ 250 mm $\rho \geq 2400$ kg/m ³	t _A $\geq$ 2 mm (dry film thickness)	L ₁ $\geq$ 20 mm	Flush with the wall surface (unexposed face)	Mineral wool t _B $\geq$ 250 mm $\rho \geq 60$ kg/m ³ compressed $\geq$ 20%	≤ 100 mm	EI 180-T-X-W 90 to W 100

Annex C: Installation of SL-1000 and ancillary product(s)

Installation of SL-1000 shall be conducted as follows:

1. Clean the edges and gaps of the floor slab and the surface to be painted should be further cleaned for removing any scattered debris, dust, oil, water stains, and other potential contaminants.
2. Fill the corresponding sized and thicknesses of rock wool (compressed by 20-30%) according to the specific drawing requirements.
3. Apply SL-1000 of the appropriate thickness (default wet film thickness is 3mm) by spraying or brushing according to the fire resistance time requirements and ensure that the overlap of the backing surface is not less than 20 mm.
4. Apply temporary protective measures at the work site according to the curing time specified in the SL-1000 product technical specifications until the SL-1000 is fully cured.
5. Maintain temporary protective measures until the construction works are completed.