Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

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European Technical Assessment ETA-20/0567 of 13 August 2025

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	"Flaton-flex A+SKL 30" and "Flaton-flex A 100" fire protective joint fillers
Product family to which the construction product belongs	Linear joint and gap seals
Manufacturer	Rex Industrie-Produkte Graf von Rex GmbH Großaltdorf Straße 59 74541 Vellberg DEUTSCHLAND
Manufacturing plant	Rex Industrie-Produkte Graf von Rex GmbH Großaltdorfer Straße 59 74541 Vellberg DEUTSCHLAND
This European Technical Assessment contains	5 pages including 7 annexes 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	350141-00-1106
This version replaces	ETA-20/0567 issued on 26 April 2021

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Specific Part

1 Technical desciption

Object of this European Technical Assessment are the construction products "Flaton-flex A+SKL 30" and "Flaton-flex A 100" for executing linear joint and gap seals.

The joint fillers "Flaton-flex A+SKL 30" and "Flaton-flex A 100" contain the factory-made intumescent sealing strip "Flaton-flex A". The installation guide is included with the construction products.

The intumescent sealing strip "Flaton-flex A" is a flexible, intumescent material applied on a glass fibre mat as support. It is produced in a nominal thickness of 2 mm. The mats are cut into strips with a width of 30 mm for use in "Flaton-flex A+SKL 30" and 100 mm for use in "Flaton-flex A 100".

For use in "Flaton-flex A+SKL 30" the intumescent sealing strip is laminated on one side with a double-sided self-adhesive tape (SKL)[1]. "Flaton-flex A 100" is intended to be fixed on wooden surfaces with metal fasteners.

The specific parameters of the intumescent sealing strip "Flaton-flex A" are given in Annex A.

"Flaton-flex A+SKL 30" and "Flaton-flex A 100" are traded as spools with a strip length of ca. 15 m.

The maximum lateral stretching and the shearing strain on the executed joint filler "Flaton-flex A+SKL 30" or "Flaton-flex A 100" must not exceed 7,5 %.

The detailed description of the components and the chemical composition of the intumescent sealing strip "Flaton-flex-A" are deposited with Deutsches Institut für Bautechnik.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The joint fillers "Flaton-flex A+SKL 30" and "Flaton-flex A 100" shall be assessed in accordance with the European Assessment Document (EAD) No. 350141-00-1106[2].

The joint filler "Flaton-flex A+SKL 30" is intended to be used in horizontal and vertical linear non-movement joints (structural joints as stepped joints and linear butt joints) up to a width of 10 mm between massive, fire-resistant walls and floors with a fire-separating function made of construction materials classified as class A1 or A2-s1, d0 (raw density ≥ 650 kg/m^3) in accordance with EN 13501-1.

The joint filler "Flaton-flex A 100" is intended to be used in horizontal and vertical linear non-movement joints (linear butt joints) up to a width of 5 mm or 10 mm between massive, fire-resistant, walls and floors with a fire-separating function made of cross-laminated timber (CLT) (raw density ≥ 438.7 kg/m^3) and/or construction materials classified as class A1 or A2-s1, d0 (raw density ≥ 650 kg/m^3) in accordance with EN 13501-1.

The joint fillers "Flaton-flex A+SKL 30" and "Flaton-flex A 100" are intended to maintain or reinstate the fire resistance performance of building components with a fire-separating function where these components are interrupted or separated by joints. The incorporated products are not intended for load transmission.

The fire resistance of construction elements incorporating the joint filler "Flaton-flex A+SKL 30" or "Flaton-flex A 100" is detailed in Annex B for different installation configurations.

The performance values given in Section 3 are only valid if the joint fillers are used in accordance with

– the specifications and conditions given in Annex B, and

– the manufacturer's installation instructions.

1 type, manufacturer and specific parameters of components deposited at DIBt.

2 Official Journal of the EU N° C 435/07 of 12 December 2017; p. 159; EAD N° 350141-00-1106 „Linear joint and gap seals"

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the joint fillers "Flaton-flex A+SKL 30" and "Flaton-flex A 100" of approximately 25 years under indoor conditions and of at least 10 years under roofed or protected outdoor conditions.

The indications on working life cannot be interpreted as a guarantee given by the manufacturer, but are to be regarded only as a tool for selecting the appropriate products in relation to the expected economically reasonable working life of the works.

3 Performance of the construction products and references to the methods used for their assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Classes in accordance with EN 13501-1, see Annex A
Resistance to fire	Classes EI in accordance with EN 13501-2, see Annex B

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content of dangerous substances	no dangerous substances[3]

The chemical composition of the components of "Flaton-flex A+SKL 30" and "Flaton-flex A 100" was assessed by DIBt and is deposited with DIBt. The composition of the products must conform to the deposition.

3.3 Safety and accessability in use (BWR 4)

No performance determined

3.4 Protection against noise (BWR 5)

No performance determined

3.5 Energy economy and heat retention (BWR 6)

No performance determined

3.6 Sustainable use of natural ressources (BWR 7)

No performance determined

3.7 General aspects

The verification of durability is part of testing the essential characteristics.

The joint fillers "Flaton-flex A+SKL 30" und "Flaton-flex A 100" can be used in end-use applications with the conditions of the following use categories with no expectation of essential changes in their fire protective properties:

Type Y_1: use at temperatures below 0 °C with casual exposure to UV radiation but no exposure to rain (roofed)

Type Y_2: use at temperature below 0 °C, but with no exposure to rain or UV radiation

Type Z_1: use in internal conditions with humidity equal to or higher than 85 % RH, excluding temperatures below 0 °C (no exposure to frost or changing frost-thaw but permanent and alternating condensation)

[3] In accordance with the Regulation (EC) N° 1272/2008 of the European Parliament and the Council of 16 December 2008 (published in the Official Journal of the EU N° L353 of 31 December 2008, p 1)

Type Z_2: uses in internal conditions with humidity lower than 85 % RH, excluding temperatures below 0 °C (dry, frost-protected).

The durability under roofed outdoor conditions for at least 10 years and indoor conditions for at least 25 years is only ensured if the specifications of intended use are considered according to annex B and the manufacturer's instructions given in section 5.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD N° 350141-00-1106[2] the applicable legal act is: 1999/454/EC[4].

The system of assessment and verification of constancy of performance (AVCP) (see annex V and article 65 paragraph 2 to Regulation (EU) N° 305/2011) is: **System 1** as given in the following table:

products	intended use	levels or classes	AVCP-System
"Flaton-flex A+SKL 30" and "Flaton-flex A 100"	sealing of joints between fire-resistant separating building elements in case of fire	all resistance to fire reaction to fire	1

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

The technical details necessary for the implementation of the system for assessment and verification of constancy of performance (AVCP) are laid down in the control plan (confidential part of this ETA) and deposited with DIBt.

In accordance with this ETA the manufacturer shall provide the declaration of performance and installation instructions containing at least information on type, properties (minimum thickness, minimum density) and fire resistance of the building elements with a fire-separating function in which the joint fillers "Flaton-flex A+SKL 30" and "Flaton-flex A 100" may be installed and a description or graphic presentation of the proper installation.

Issued in Berlin on 13 August 2025 by Deutsches Institut für Bautechnik

Johanna Held
Head of Section

beglaubigt:
Haberstroh

[4] Decision of the Commission N° 1999/454/EC of 22 June 1999 (OJ L 178/52 of 14/07/99, p. 3), as amended by Decision of the Commission N° 2001/596/EC of 8 January 2001 (OJ L 209/33 of 2/8/2001, p. 2)

Description of "Flaton-flex A 100"

Properties relevant for the fire protective effects of the intumescent component "Flaton-flex A" without self-adhesive lamination

characteristic	**value and tolerance**	**test method and test conditions**
nominal thickness	2 mm ± 0.2 mm	see control plan
mass per unit area	2.05 kg/m² ± 0.2 kg/m²	
loss of mass at a certain temperature (450 °C for 20 min)	56.0 ± 5 %	
expansion ratio	12.5 to 17.5	
expansion pressure	1.6 N/mm² to 2.6 N/mm²	
reaction to fire	class C-s1,d0[1] in accordance with EN 13501-1	

"Flaton-Flex A 100" must be fastened to wooden elements using metal fasteners such as steel wire staples (see Annex B 4).

Description of "Flaton-flex A+SKL 30"

1. Intumescent component "Flaton-flex A", according to the above table
2. Double-faced self-adhesive tape
   Polyacrylic adhesive on a layer of paper mat; thickness: 0.16 mm to 0.18 mm

[1] When used on wooden materials of a raw density ≥ 338 kg/m³ (this applies only to "Flaton-flex A 100") and materials of classes A1 and A2-s1, d0

"Flaton-flex A+SKL 30" and "Flaton-flex A 100"	**Annex A**
Description of the components of the construction products	

Fire-separating elements -"Flaton-flex A+SKL 30"

"Flaton-flex A+SKL 30" is intended to seal linear joints between massive construction elements such as walls and ceilings of a minimum density of 650 ± 200 kg/m³ made of aerated concrete, concrete, reinforced concrete, masonry or hollow block brickwork.

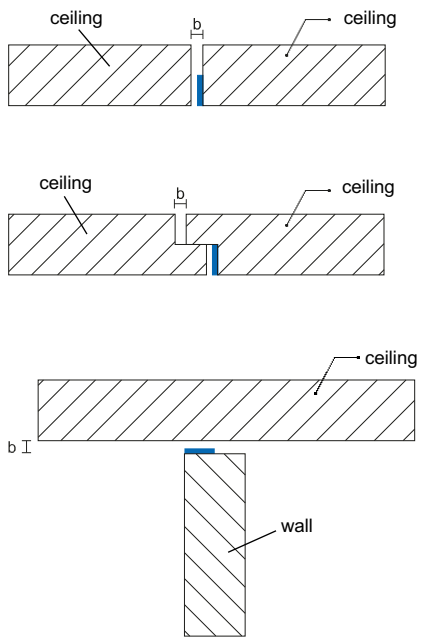
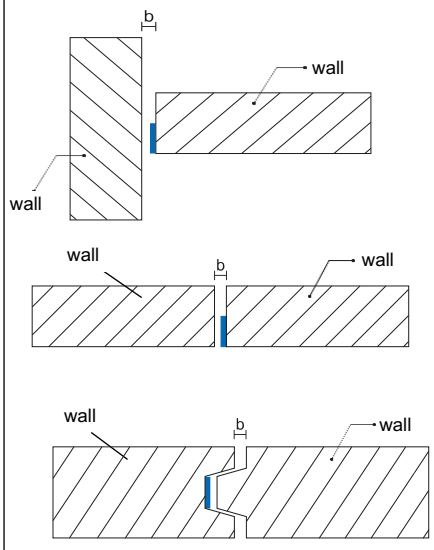
"Flaton-flex A+SKL 30" can be used to close linear joints up to a width of maximum 10 mm (b).

Walls and ceilings with fire separating function shall have a minimum thickness 100 mm for massive vertical loadbearing elements and 150 mm for massive horizontal load bearing elements. (see annex B).

The fire separating element itself has to show the same class of resistance to fire according to EN 13501-2 as required with the joint seal.

"Flaton-flex A+SKL 30" can be used for the following types of application:

- in horizontal joints between fire resistant walls or between walls and ceilings with fire-separating function (type of application A)
- in vertical joints between fire resistant walls with fire-separating function (type of application B)

type of application A - Ceiling	type of application B - Wall
	

Legend: b joint width
"Flaton-flex A+SKL 30"

"Flaton-flex A+SKL 30" and "Flaton-flex A 100"	**Annex B 1**
Intended Use Information for execution concerning the tested resistance to fire	

Fire-separating elements -"Flaton-flex A 100"

"Flaton-flex A 100" is intended to seal linear joints between massive construction elements such as walls and ceilings made of wood as well as between wooden elements and elements consisting of aerated concrete, concrete, reinforced concrete, masonry or hollow block brickwork.

Wooden walls and ceilings with fire separating function shall consist of cross-laminated timber (CLT) of type "KLH-CLT" according to ETA-06/0128 with a minimum raw density of 438.7 kg/m^3. Wooden walls and ceilings with fire separating function shall have a minimum thickness of 120 mm for vertical construction and 160 mm for horizontal construction.

Walls and ceilings with fire separating function that are made of aerated concrete, concrete, reinforced concrete, masonry or hollow block brickwork shall have a minimum raw density ≥ 650 kg/m³ and a minimum thickness of 150 mm for massive vertical and horizontal construction.

The fire separating element itself has to show the same class of resistance to fire according to EN 13501-2 as required with the joint seal.

"Flaton-flex A 100" can be used to close linear joints up to 5 mm or 10 mm (between wooden wall and or ceiling elements), and 5 mm for wall and ceiling elements of wood to concrete. (See Annex B 5)

The joint filling depth must be at least 100 mm.

The fire protective joint filler must be positioned centrally in the joint.

"Flaton-flex A 100" can be used for the following types of application:

- in horizontal joints between fire resistant walls or between walls and ceilings with fire-separating function (type of application A)
- in vertical joints between fire resistant walls with fire-separating function (type of application B)
- in horizontal joints between fire resistant walls with a fire-separating function that abut a ceiling, suspended ceiling or roof (type of application C)

"Flaton-flex A+SKL 30" and "Flaton-flex A 100"	**Annex B 2**
Intended Use Information for execution concerning the tested resistance to fire	

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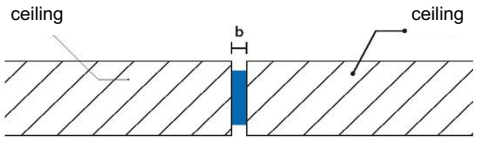
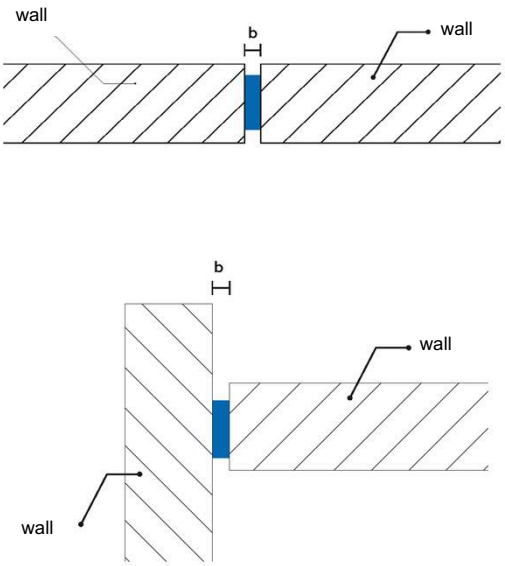
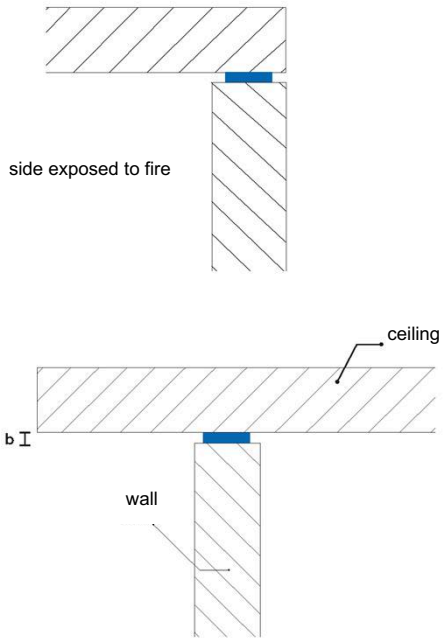
type of application A - ceiling



type of application B - wall



type of application C - walls abutting ceilings



Legende:
b joint width
"Flaton-flex A 100"

"Flaton-flex A+SKL 30" and "Flaton-flex A 100"

Intended use
Information for execution concerning the tested resistance to fire

Annex B 3

Mechanical fastening of "Flaton-flex A 100" to wooden surfaces

The construction product shall be fixed on one side to the wooden surface. It must be positioned centrally. Shown below is the attachment of "Flaton-Flex A 100" to wooden surfaces using metallic staples, e.g., steel wire needles.

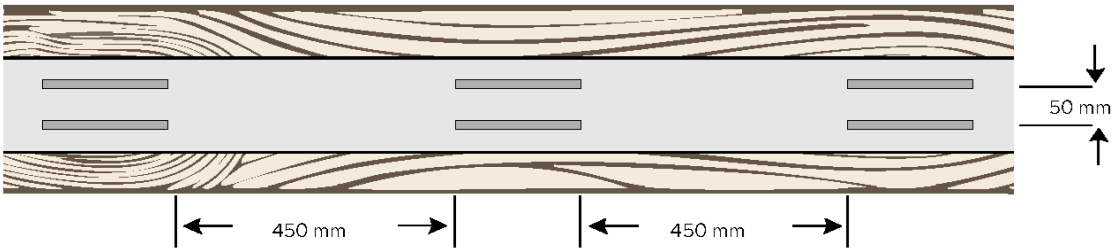


Figure 1: Installation on wooden surfaces.

"Flaton-flex A+SKL 30" and "Flaton-flex A 100"	**Annex B 4**
Intended use Information for execution concerning the tested resistance to fire	

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Classification of the resistance to fire

Specification of fire resistance between wooden components and mineral components according to Annexes B 1 and B 2. The nominal thickness of the joint fillers is 2 mm.

Table B.1 Tested joints for Flaton-flex A+SKL 30"
executed between mineral components (see Annex B 1)

type of application	classification in accordance with EN 13501-2
vertical wall joint	EI 180-V-X-F-W 10
horizontal ceiling joint	EI 120-H-X-F-W 10

Table B.2 Tested joints for "Flaton-flex A 100"
executed between timber components (see Annex B 2)

type of application	classification in accordance with EN 13501-2
horizontal ceiling joint	EI 90-H-X-F-W 5 - 10
vertical wall joint	EI 90-V-X-F-W 5 - 10
horizontal ceiling joint, abutting to a ceiling, suspended ceiling or roof	EI 90-H-X-F-W 5

Table B.3 Tested joints for "Flaton-flex A 100"
executed between mineral and timber components (see Annex B 2)

type of application	classification in accordance with EN 13501-2
horizontal ceiling joint	EI 90-H-X-F-W 5
vertical wall joint	EI 90-V-X-F-W 5

"Flaton-flex A+SKL 30" und "Flaton-flex A 100"	**Annex B 5**
Intended use Information regarding the tested resistance to fire	

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List of References

EN 13501-1:2019-05	Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests
EN 13501-2:2016-12	Fire classification of construction products and building elements – Part 2: Classification using data from resistance tests, excluding ventilation services
EN ISO 11925-2:2020-07	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test (ISO 11925-2:2010)
EN 13823:2020-09	Reaction to fire tests for building products - Building products exposed to the thermal attack by a single burning item, excluding floorings
EN 1363-1:2020-05	Fire resistance tests – Part 1: General requirements
EN 1366-4:2021-05	Fire resistance tests for service installations – Part 4: Linear joint seals

"Flaton-flex A+SKL 30" and "Flaton-flex A 100"	**Annex C**
List of reference documents	