



SINTEF AS
P.O.Box 124 Blindern
NO-0314 Oslo, Norway
Phone: +47 40 00 51 00
e-mail: certification@sintef.no



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www.eota.eu

European Technical Assessment

ETA-20/1293
of 2021-02-17

General Part

Technical Assessment Body issuing the European Technical Assessment:
SINTEF

Trade name of the construction product

Hilti Firestop Flute Filler CFS-HFF

Product family to which the construction product belongs

Intumescent products for fire sealing and fire stopping purposes

Manufacturer

Hilti AG,
Feldkircherstrasse 100
FL-9494 Schaan
Liechtenstein
Internet: www.hilti.com

Manufacturing plant(s)

HILTI plant 4a

This European Technical Assessment contains

5 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 350005-00-1104, May 2015
Intumescent products for fire sealing and fire stopping purposes

This version replaces

ETA 18/0513, issued 2018-12-19

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

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Specific parts

1 Technical description of the product

Hilti Firestop Flute Filler CFS-HFF is a rectangular Polyethelene foam strip impregnated with blowing graphite and foil faced.

In case of fire, exposed to high temperatures, the intumescent product expands and generates a foam/char. This foam seals joints and gaps, closes voids and openings. Thus, the foam restricts the passage and the spread of heat, smoke, flames or any combination of these.

The technical characteristics relevant for fire sealing and fire stopping effects of the construction product Hilti Firestop Flute Filler CFS-HFF are given in Annex A.

The construction product Hilti Firestop Flute Filler CFS-HFF is produced at the factory in strips of dimensions 750 mm long by 35 mm wide by 65 mm high.

The Control Plan is defined in document " Documentation Hilti Firestop Flute Filler CFS-HFF" relating to the European Technical Assessment ETA-20/1293 – Hilti Firestop Flute Filler CFS-HFF, which is a non-public part of this ETA.

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

Detailed information and data is given in Annex A.

The construction product Hilti Firestop Flute Filler CFS-HFF is assessed on the basis of EAD 350005-00-1104 as an intumescent product for fire sealing and fire stopping purposes without defined final intended use (IU 1).

The construction product Hilti Firestop Flute Filler CFS-HFF is intended to be used as an essential component in construction products, construction elements, assemblies, kits and special constructions which need to meet requirements concerning the safety in case of fire.

In case of fire, the product delays the heat transfer through fire resistant construction products and construction elements by expanding under the impact of high temperatures and thus restricting the spread of fire.

The provisions made in this European Technical Assessment are based on an assumed working life of the Hilti Firestop Flute Filler CFS-HFF of 10 years, provided that the conditions laid down in the manufacturer's datasheet and instructions 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 manufacturer, but are regarded only as a means for expressing the expected economically reasonable working life of the product.

Intention for use

Type Y₁: intended for uses at temperatures below 0° C with exposure to UV but no exposure to rain (roofed outdoor application). This includes lower classes Y₂, Z₁ and Z₂.

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

Product-type: Intumescent product		Intended use: Fire sealing and fire stopping purpose	
Basic requirement for construction work	Basic Requirement	Performance	
BWR 2 Safety in case of fire			
EN 13501-1	Reaction to fire	Class E	
EN 13501-2	Resistance to fire	No performance assessed	
BWR 3 Hygiene, health and environment			
Declaration of manufacturer	Content, emission and/or release of dangerous substances	Declaration of manufacturer	
BWR 4 Safety in use			
EAD 350005-00-1104, Clause 2.2.2.7	Durability	Y ₁	

The applicant has declaration in respect of dangerous substances that the product does not contain any substances listed in the Regulation (EC) No 1272/2008 and EOTA TR 034 (General BWR 3 Checklist for EADs/ETAs - Dangerous substances), edition October 2015.

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.

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 <http://eur-lex.europa.eu/JOIndex.do> of the European Commission¹, 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)
Intumescent products for fire sealing and fire stopping purposes	Components effective in view of safety in case of fire (BWR 2) used in construction products, construction elements, kits and special assemblies	Any	1

¹ Official Journal of the European Communities L178/52 of 14/7/1999

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

5.1 Task 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 raw materials and components stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control Plan dated 16.11.2018 which is part of the technical documentation of this version of the ETA . The "Control Plan" is laid down in the context of the documented factory production control system operated by the manufacturer and, in addition deposited at SINTEF AS.

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

Issued in Oslo on 2021-02-17

By

SINTEF



Hans Boye Skogstad
Approval Manager

**6 ANNEX A – Characteristics Of The Construction Product ‘Hilti Firestop Flute Filler CFS-HFF’
Relevant For The Fire Sealing and Fire Stopping Properties**

Characteristic	Tolerance
Weight per metre	195 ± 40 g/m
Ash Content	21 ± 6 %
Expansion ratio	2.5-4.0 mm/g