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appointed according to Article 29 of Construction Products Regulation 2011 as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020

UK Technical Assessment

0843-UKTA-22/0051 of 30/05/2023

Technical Assessment Body Issuing the UKTA:

UL International (UK) Ltd

Trade name of the construction product

Hilti Firestop Top Track Seal CFS-TTS E

Product family to which the construction product belongs

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

Manufacturer

Feldkircherstrasse 100

9494 Schaan LIECHTENSTEIN

Hilti Corporation

Manufacturing plant(s)

HILTI production plant 4a

This UK Technical Assessment contains

10 pages including 2 annexes which form an integral part of this assessment

This UK Technical Assessment* is issued, on the basis of

EAD 350141-00-1106, September 2017

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

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^{*} in accordance with Construction Products Regulation 2011 as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020

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SPECIFIC PARTS OF THE UK TECHNICAL ASSESSMENT

1 Technical description of the product

Hilti Firestop Top Track Seal CFS-TTS E is a U-shaped strip based on flexible polyurethane foam in a plastic foil to seal top of wall joints of dry walls towards different ceiling constructions. This compressible strip is installed around the horizontal top track of a flexible wall.

For details of the seal design depending on orientation, building elements forming the joint/gap or backfilling material and the related classifications see Annex B.

For a description of the installation procedure see Annex A.

Hilti Firestop Top Track Seal CFS-TTS E is supplied in lengths packed in cardboard boxes. CFS-TTS E is available in 50 mm (E5), 62 mm (E6), 74 mm (E7) and 95 mm (E95) widths, fitting to different steel track sizes.

For double stud insulation CFS-TTS ES is used which corresponds to CFS-TTS E9 with a tear line in the middle of the back and two strips of adhesion ribbon at the inner edges of the back to ease installation on track (see, Annex A, picture 1).

2 Specification of the intended use(s) in accordance with the applicable UK Assessment Document (Pre-Exit European Assessment Document): EAD 350141-00-1106

The construction product Hilti Firestop Top Track Seal CFS-TTS E is intended to provide fire resistance performance in the area of the top track of a partition wall. The Hilti Firestop Top Track Seal CFS-TTS E seals the respective track which is freestanding from the vertical studs and boards of the flexible wall construction and absorbs movements generated by displacements of a surrounding building construction.

The fire sealing products are to be installed according to the manufacturer's installation manual.

The verification and assessment methods on which this UK Technical Assessment is based lead to the assumption of a working life of at least 10 years, providing that the conditions lay down for the installation, packaging, transport and storage as well as appropriate use, maintenance and repair are met.

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 the right product in relation to the expected economically reasonable working life of the works.

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
DWD 2	Reaction to fire	EN 13501-1	Clause 3.1.1 of this UKTA
BWR 2	Resistance to fire	EN 13501-2	See Clause 3.1.2 and Annex B of this UKTA
	Air permeability	EN 1026	Clause 3.2.1 of this UKTA
BWR 3	Water permeability	No performance assessed	
	Content and/or release of dangerous substances	Declaration of conformity by the manufacturer	
	Mechanical resistance and stability	No performance assessed	
BWR 4	Resistance to impact/movement	No performance assessed	
DWK 4	Adhesion	No performance assessed	
	Durability	EAD 350141-00-1106	Y ₁
BWR 5	Airborne sound insulation	EN ISO 10140-1 EN ISO 10140-2 EN ISO 717-1	Clause 3.4.1 of this UKTA
BWR 6	Thermal properties	No performance deteri	mined
DANKA	Water vapour permeability	No performance determined	

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

Hilti Firestop Top Track Seal CFS-TTS E is classified 'E' in accordance with EN 13501-1.

3.1.2 Resistance to fire

Hilti Firestop Top Track Seal CFS-TTS E has been tested in accordance with EN 1366-4.

Based upon these test results and the field of direct application specified within EN 1366-4, Hilti Firestop Top Track Seal CFS-TTS E has been classified according to EN 13501-2, as shown in Annex B.

3.2 Hygiene, health and environment (BWR 3)

3.2.1 Air permeability

The air permeability of the Hilti Firestop Top Track Seal CFS-TTS E was tested in a joint set up with dimension 700 x 25 mm according to EAD 350141-00-1106, clause 2.2.4 by applying the test principle of EN 1026.

Pressure (Pa)	50	250	300	450	600
q/A air(m³/h)	0.1	0.3	0.4	0.5	0.7

3.2.2 Water permeability

No performance assessed

3.2.3 Content, emission and/or release of dangerous substances.

The manufacturer has provided a declaration on the content, emission and/or release of dangerous substances in relation to their products with the title "Statement on Product Regulatory Compliance: Version 1.1 October 2022).

In addition to the specific clauses relating to dangerous substances contained in this UK Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed UK 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 and accessibility 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

Test reports from noise reduction according to EN ISO 10140-1, EN ISO 10140-2 and EN ISO 717-1 have been provided.

The resulting $R_{s,w}(C;Ctr)$ and $D_{n,e,w}(C;Ctr)$ values are:

R _{s,w} (C;Ctr) [dB]	D _{n,e,w} (C; Ctr) [dB]
62 (-2;-5)	71 (-2;-5)

3.5 Energy economy and heat retention (BWR 6)

3.5.1 Thermal properties

No performance determined

3.5.2 Water vapour permeability

No performance determined

3.6 Methods of verifications

The product is fully covered by EAD 350141-00-1106 and fulfils the requirements for use category: Y_1 , intended for use at temperatures below 0°C, with casual exposure to UV but no exposure to rain.

3.7 General aspects relating to fitness for use

The UK Technical Assessment is issued for the product based on agreed data/information, deposited with UL International (UK) Ltd, 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 UL International (UK) Ltd before the changes are introduced. UL International (UK) Ltd will decide if such changes affect the UKTA and consequently the validity of the UKCA marking based on the UKTA and if so whether further assessment or alterations to the UKTA, shall be necessary.

The Hilti Firestop Top Track Seal CFS-TTS E is manufactured in accordance with the provisions of this UK Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

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

According to the Statutory Instrument 2019 No. 465 – made 5th March 2019 and cited as the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and coming into force on exit day and Statutory Instrument 2020 No. 1359 – made 26th November 2020 and cited as the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 and coming into force immediately before the 2019 Regulations come into force, on the procedure for attesting the conformity of construction products as regards fire stopping, fire sealing and fire protective products, published as 'Pre-Exit' European Assessment Documents, (see https://www.gov.uk/guidance/pre-exit-european-assessment-documents-construction-products), the system of assessment and verification of constancy of performance (see Annex V to Construction Products Regulation 2011 as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2020) given in the following table(s) apply.

Product(s)	Intended use(s)	Level(s) or class(es)	System
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 UK Technical Assessment.

The manufacturer may only use initial / raw / constituent materials stated in the technical documentation of this UK Technical Assessment.

The factory production control shall be in accordance with the Control Plan of 01/08/2022 relating to the UK Technical Assessment 0843-UKTA-22/0051 issued on 30/05/2023 which is part of the technical documentation of this UK 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 (UK) Ltd.

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

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 linear joint and gap 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 perimeter seal
 - Construction of the linear joint and gap 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

Issued on: 30th May 2023

Report by:

Reviewed by:

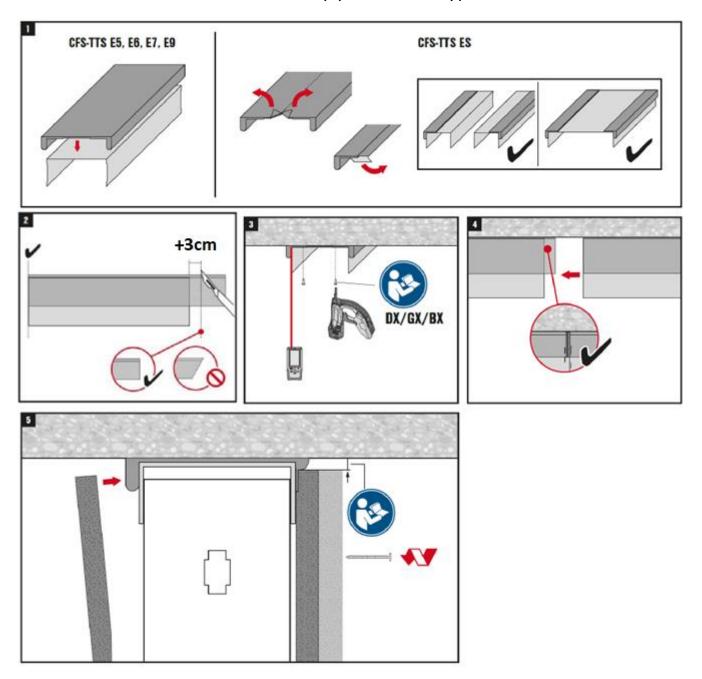
C. Sweeney **Project Engineer**

Built Environment

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For and on behalf of UL International (UK) Ltd.

ANNEX A -Installation pf product and ancillary products



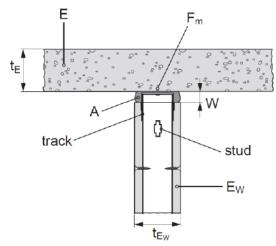
ANNEX B - Resistance to fire classification of Hilti Firestop Top Track Seal CFS-TTS E

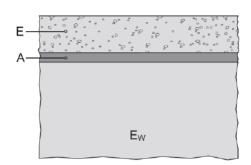
- B.1 Floor and ceiling constructions: Rigid floors: The floor must have a minimum thickness $t_E \ge 100$ mm and comprise of concrete with a minimum density of 2200 kg/m³.
- B.2 Flexible wall constructions: Flexible wall construction must be classified in accordance with EN 13501-2 for the required resistance period and must have a minimum thickness of 100 mm. The maximum height of the wall is 4 m.
- B.3 Linear wall seal installation specifics

Hilti Firestop Top Track Seal CFS-TTS E is applied on the topside of the upper horizontal U-profile, along the entire width of the wall. The (gypsum plasterboard) lining is fixed onto the vertical studs, compressing a minimum of 14 mm of the Hilti Firestop Top Track Seal CFS-TTS E, leaving a joint of (maximum) 25 mm width. The joint will accommodate the incidental movement of the ceiling relative to the wall.

Maximal joint width (W): up to 25 mm;

Generalised construction details:





Abbreviation	Description
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A = Hilti Firestop Top Track Seal CFS-TTS E
E = Ceiling, concrete according to B.1
E_W = Flexible wall according to B.2

F_m = Material/anchors to fix track to concrete ceiling (listed below)

 t_E = Thickness of concrete slab t_{Ew} = Thickness of the flexible wall W = Maximal joint width

Stud and top track are overlapping but are not fixed to eah other e.g. by screws

Splices by CFS-TTS E pieces are allowed. At each splice there should be a compression force active corresponding to an extra CFS-TTS E of 3 cm/3 m (see also Annex A, pictures 2 and 4)

Fixing materials (FM)

- Hilti DX/GX/BX nails
- Hilti HPS-1 ≥ 6/10x35
- Or similar

B.4 Classification

Hilti Firestop Top Track Seal CFS-TTS E	Classification
Horizontal joint Maximum joint width of 25 mm	EI 120 – T – X – F – W25-25