DICHIARAZIONE DI PRESTAZIONE
conformemente all’Allegato III al Regolamento (EU) n. 305/2011 (Regolamento sui Prodotti da Costruzione)

Sigillante antifuoco per guide superiori Hilti CFS-TTS E
N. Hilti CFS-TTS E

1. Codice di identificazione unico del prodotto-tipo:
   Sigillante antifuoco per guide superiori Hilti CFS-TTS E

2. Uso previsto:
   Kit antifuoco e per pareti interne, vedere ETA-18/0398 (24.07.2018)

<table>
<thead>
<tr>
<th>Kit pareti interne</th>
<th>Prodotti ignifughi e sigillanti antifuoco:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sigillante per guide superiori</td>
</tr>
</tbody>
</table>

3. Fabbricante:
   HILTI Corporation, Feldkircherstrasse 100, 9494 Schaan, Principato del Liechtenstein

4. Sistemi di VVCP:
   Sistema 1

5. Documento per la valutazione europea:
   ETAG 003 (con funzione di Documento per la Valutazione Europea)
   Valutazione tecnica europea:
   ETA-18/0398 (24.07.2018)
   Organismo di valutazione tecnica:
   UL International (UK) LTD
   Organismo/i notificato/i:
   UL International Limited, No. 0843

6. Prestazione dichiarata:

<table>
<thead>
<tr>
<th>Caratteristiche essenziali</th>
<th>Prestazioni dichiarate / specifica tecnica armonizzata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reazione al fuoco</td>
<td>Classe E secondo EN 13501-1</td>
</tr>
<tr>
<td>Resistenza al fuoco</td>
<td>Resistenza al fuoco e campo di applicazione conformi a EN 13501-2. Vedere allegato 3</td>
</tr>
<tr>
<td>Protezione contro il rumore</td>
<td>Testato ai sensi della norma EN ISO 10140-2. Vedere allegato 1</td>
</tr>
<tr>
<td>Resistenza ai carichi dinamici</td>
<td>Categoria d’uso II - secondo ETAG 003</td>
</tr>
</tbody>
</table>

La prestazione del prodotto sopra identificato è conforme all’insieme delle prestazioni dichiarate. La presente dichiarazione di prestazione viene rilasciata in conformità al Regolamento (UE) N. 305/2011, sotto l’esclusiva responsabilità del produttore identificato in precedenza.

Firmato a nome e per conto del fabbricante da:

Stefan Juli
Product Manager
Business Fire Protection
Hilti Corporation

Martin Althof
Direttore della Qualità
Business Fire Protection
Hilti Corporation

Schaan, 24/07/2018
DoP_en_01-00_000000003167_Hilti CFS-TTS_E
Annex 1. Protection against noise

Airborne sound insulation

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

The tests were performed with Drywall partitions using Hilti CFS-TTS E Firestop Top Track Seal based on 100 mm metal C-studs with a double layer of 12.5 mm fibre gypsum board cladding with 50 mm mineral wool infill, as well as in a flexible wall construction based on double metal CW-studs of 50 mm with a double layer of 12.5 mm fibre gypsum board cladding and 2 x 50 mm mineral wool infill.

The resulting Rw(C;Ctr) values are:

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Rw(C;Ctr) [dB]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall construction with 100 mm C-studs and 50 mm mineral wool infill</td>
<td>62 (-2;-5)</td>
</tr>
<tr>
<td>Wall construction with double 50 mm CW-studs and 2 x 50 mm mineral wool infill</td>
<td>63 (-1;-4)</td>
</tr>
</tbody>
</table>

Annex 2. Hilti CFS-TTS E Firestop Top Track Seal – Description of the product

Hilti CFS-TTS E Firestop Top Track Seal is a compressible strip installed around the horizontal top and/or bottom track of a flexible wall. It is a U-shaped strip based on flexible polyurethane foam in a plastic foil.

Hilti CFS-TTS E Firestop Top Track Seal is supplied in lengths packed in cardboard boxes.

A detailed specification of the product is contained in document "Identification / Product Specification relating to the European Technical Assessment ETA-18/0398 - Hilti CFS-TTS E Firestop Top Track Seal" which is a non-public part of this ETA.

The Control Plan is defined in document "Control Plan related to the European Technical Assessment ETA-18/0398 - Hilti CFS-TTS E Firestop Top Track Seal” which is a non-public part of this ETA.

1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

Technical product literature:

Technical Data Sheet Hilti CFS-TTS E Firestop Top Track Seal
ANNEX 3 – RESISTANCE TO FIRE CLASSIFICATION AND USE CATEGORIES FOR DRYWALL PARTITIONS USING HILTI CFS-TTS E FIRESTOP TOP TRACK SEAL

A.3.1 Specific characteristics for floor and ceiling construction

   a) Rigid floors: The floor must have a minimum thickness $t_{E1} \geq 100$ mm and comprise of concrete with a minimum density of 2400 kg/m$^3$.

   The constructions described in annex 2.3.1 and 2.3.2 can also be used with a flexible floor construction.

A.3.2 Linear joint seal installation specifics

Hilti CFS-TTS E Firestop Top Track Seal 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 CFS-TTS E Firestop Top Track Seal, leaving a joint of (maximum) 25 mm width. The joint will accommodate the incidental movement of the ceiling relative to the wall.

Nominal joint width: up to 25 mm;

Generalised construction details:
A.3.3 Classifications for Drywall partitions using Hilti CFS-TTS E Firestop Top Track Seal

A.3.3.1

The Drywall partition using Hilti CFS-TTS E Firestop Top Track Seal as schematically represented above, has a classification in accordance with EN 13501-2 of:

\[ \text{EI 45} \]
\[ \text{EW 60} / \text{E 60} \]

The use category as defined in ETAG 003 (Table 6) is:

Use Category II

For a classification of EI 45 in accordance with EN 13501-2, Hilti CFS-TTS E Firestop Top Track Seal can be applied between:

- A flexible wall of intended fire resistance of 45 minutes (EI 45 in accordance with EN 13501-2), constructed as follows:
  - Horizontal U-profiles of galvanised steel, minimum 40 x 50 x 40 x 0.6 mm, fixed at 600 mm centres
  - Vertical C-profile studs of galvanised steel, minimum 6 x 49 x 48.8 x 51 x 6 x 0.6 mm
  - A lining of a single layer of gypsum plasterboard, Type F in accordance with EN 520, thickness 12.5 mm or more, fixed at 300 mm centres
  - The cavity of the wall can optionally be filled with mineral wool slabs insulation
  - The total thickness of the wall must be 75 mm or more

- A solid floor, or a flexible floor construction.
A.3.3.2

The Drywall partition using Hilti CFS-TTS E Firestop Top Track Seal as schematically represented above, has a classification in accordance with EN 13501-2 of:

EI 60
EW 90 / E 90

The use category as defined in ETAG 003 (Table 6) is:

Use Category II

The resistance to structural damage from eccentric vertical load (Table 7) is:

Loading Category A

For a classification of EI 60 in accordance with EN 13501-2, Hilti CFS-TTS E Firestop Top Track Seal can be applied between:

- A flexible wall of intended fire resistance of 60 minutes (EI 60 in accordance with EN 13501-2), constructed as follows:
  - Horizontal U-profiles of galvanised steel, minimum 40 x 50 x 40 x 0.6 mm, fixed at 600 mm centres
  - Vertical C-profile studs of galvanised steel, minimum 6 x 49 x 48.8 x 51 x 6 x 0.6 mm
  - A lining of a double layer of gypsum plasterboard, Type F in accordance with EN 520, minimum thickness 12.5 mm, fixed at 300 mm centres
  - The cavity of the wall can optionally be filled with mineral wool slabs insulation
  - The total thickness of the wall must be 100 mm or more

- A solid floor, or a flexible floor construction.

[1] U-profile galvanized steel, 40 x 50 x 40 x 0.6 mm
[2] Hilti S-MD 01 PS Ø4.8 x 19 mm construction screw, c/c 600 mm
[3] Nail plug Ø3.8 x 60 mm, c/c 600 mm
[4] C-profile stud galvanized steel, 6 x 49 x 48.8 x 51 x 6 x 0.6 mm
[5] Gyproc Rf gypsum plasterboard, type DF to EN 520, 12.5 mm
[6] Drywall screws Ø3.5 x 25 mm, c/c distance 300 mm
[7] Drywall screws Ø3.5 x 35 mm, c/c distance 300 mm
[8] Insulation, Rockwool density 45 kg/m$^3$
[9] Joint tape
[10] Jointfiller

The total thickness of the wall is 100 mm
A.3.3.3

The Drywall partition using Hilti CFS-TTS E Firestop Top Track Seal as schematically represented above, has a classification in accordance with EN 13501-2 of:

**EI 90**  
**EW 120 / E 120**

The use category as defined in ETAG 003 (Table 6) is:

**Use Category II**

The resistance to structural damage from eccentric vertical load (Table 7) is:

**Loading Category A**

For a classification of EI 90 in accordance with EN 13501-2, Hilti CFS-TTS E Firestop Top Track Seal can be applied between:

- A flexible wall of intended fire resistance of 90 minutes (EI 90 in accordance with EN 13501-2), constructed as follows:
  - Horizontal U-profiles of galvanised steel, minimum 40 x 70 x 40 x 0.6 mm, fixed at 300 mm centres for the top track and 600 mm centres for the bottom track
  - Vertical C-profile studs of galvanised steel, minimum 8 x 48 x 69 x 48 x 6 x 0.6 mm
  - A lining of a double layer of gypsum plasterboard, Type F in accordance with EN 520, minimum thickness 12.5 mm, fixed at 750 mm centres for the inner layer and 250 mm centres for the outer layer
  - The cavity of the wall can optionally be filled with mineral wool slabs insulation
  - The total thickness of the wall must be 120 mm or more
- A solid floor of minimum thickness 150 mm and comprised of concrete with a minimum density of 2200 kg/m³
The Drywall partition using Hilti CFS-TTS E Firestop Top Track Seal as schematically represented above, has a classification in accordance with EN 13501-2 of:

**EI 120**

The use category as defined in ETAG 003 (Table 6) is:

**Use Category II**

The resistance to structural damage from eccentric vertical load (Table 7) is:

**Loading Category A**

For a classification of EI 120 in accordance with EN 13501-2, Hilti CFS-TTS E Firestop Top Track Seal can be applied between:

- A flexible wall of intended fire resistance of 120 minutes (EI 120 in accordance with EN 13501-2), constructed as follows:
  - Two identical frames are installed with a distance of 50 mm from each other; the studs are coupled to each other by means of horizontally placed C-profiles at 300 mm and 1500 mm from the top
  - (Two) Horizontal U-profiles of galvanized steel, minimum 60 x 50 x 60 x 0.6 mm, fixed at 300 mm centres for the top track and 600 mm centres for the bottom track
  - (Two) Vertical C-profile studs of galvanized steel, minimum 8 x 49 x 48.8 x 51 x 6 x 0.6 mm
  - A lining of a double layer of gypsum plasterboard, Type F in accordance with EN 520, thickness 15 mm or more, fixed at 750 mm centres for the inner layer and 250 mm centres for the outer layer
  - In the cavity of the wall stone wool slabs, minimum density 45 kg/m³, thickness 50 mm installed horizontally (width 1000 mm, height 625 mm)
  - The total thickness of the wall must be 210 mm or more

- A solid floor of minimum thickness 150 mm and comprised of concrete with a minimum density of 2200 kg/m³