DÉCLARATION DES PERFORMANCES
conformément à l'annexe III du Règlement (UE) n° 305/2011 (Règlement sur les produits de construction)

Calfeutrement coupe-feu de dessus de rail Hilti
CFS-TTS E
N° Hilti CFS-TTS E

1. Code d'identification unique du produit type :
Calfeutrement coupe-feu de dessus de rail Hilti CFS-TTS E

2. Usage prévu :
Kits coupe-feu et cloisons internes, voir ETA-18/0398 (24.07.2018)

3. Fabricant :
HILTI Corporation, Feldkircherstrasse 100, 9494 Schaan, Principauté du Liechtenstein

4. Système d'EVCP :
Système 1

5. Document d'évaluation européen :
ETAG 003 (utilisé comme document d'évaluation européen)
Évaluation Technique Européenne :
ETE-18/0398 (24.07.2018)
Organisme d'évaluation technique :
UL International (UK) LTD
Organisme(s) notifié(s) :
UL International Limited, N° 0843

6. Performances déclarées :

<table>
<thead>
<tr>
<th>Exigence fondamentale</th>
<th>Performances déclarées/spécification technique harmonisée</th>
</tr>
</thead>
<tbody>
<tr>
<td>Réaction au feu</td>
<td>Classe E selon NF EN 13501-1</td>
</tr>
<tr>
<td>Résistance au feu</td>
<td>Performances de résistance au feu et domaine d'application selon NF EN 13501-2. Se reporter à l'annexe 3.</td>
</tr>
<tr>
<td>Protection contre le bruit</td>
<td>Testé selon EN ISO 10140-2. Se reporter à l'annexe 1.</td>
</tr>
<tr>
<td>Résistance aux charges dynamiques</td>
<td>Catégorie d'utilisation II - selon ETAG 003</td>
</tr>
</tbody>
</table>


Signé pour le compte du fabricant par :

Stefan Juli
Chef de produit
Hilti Corporation

Martin Althof
Responsable qualité
Hilti Corporation

Schaan, le 24/07/2018
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

| [1] U-profile galvanised steel 40 x 50 x 40 x 0.6 mm |
| [2] Metal construction screw, c/c distance 600 mm |
| [3] Nail plug, c/c distance 600 mm |
| [4] C-profile stud galvanized steel 6 x 49 x 48.8 x 51 x 6 x 0.6 mm |
| [5] sealing strip |
| [6] Gyproc Rf gypsum plasterboard, type DF to EN 520, 12.5 mm |
| [7] Drywall screws Ø3.5 x 25 mm, c/c distance 300 mm |
| [8] Insulation, Rockwool density 45 kg/m³ |
| [9] Joint tape |
| [10] Jointfiller |

The total thickness of the wall is 75 mm

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 45**

**EW 60 / 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 galvanized steel, minimum 40 x 50 x 40 x 0.6 mm, fixed at 600 mm centres
  - Vertical C-profile studs of galvanized 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

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>[1]</td>
<td>U-profile galvanised steel, 40 x 50 x 40 x 0.6 mm</td>
</tr>
<tr>
<td>[2]</td>
<td>Hilti S-MD 01 PS Ø4.8 x 19 mm construction screw, c/c 600 mm</td>
</tr>
<tr>
<td>[3]</td>
<td>Nail plug Ø3.8 x 60 mm, c/c 600 mm</td>
</tr>
<tr>
<td>[4]</td>
<td>C-profile stud galvanized steel, 6 x 49 x 48.8 x 51 x 6 x 0.6 mm</td>
</tr>
<tr>
<td>[5]</td>
<td>Gyproc Rf gypsum plasterboard, type DF to EN 520, 12.5 mm</td>
</tr>
<tr>
<td>[6]</td>
<td>Drywall screws Ø3.5 x 25 mm, c/c distance 300 mm</td>
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</tr>
<tr>
<td>[9]</td>
<td>Joint tape</td>
</tr>
<tr>
<td>[10]</td>
<td>Jointfiller</td>
</tr>
</tbody>
</table>

The total thickness of the wall is 100 mm.

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 galvanized steel, minimum 40 x 50 x 40 x 0.6 mm, fixed at 600 mm centres
  - Vertical C-profile studs of galvanized 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.
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 stud 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 galvanised 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 galvanised 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/m$^3$, 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/m$^3$