

# UL-AU CERTIFICATE

**Certificate No.** UL-AU-230007  
**Page** 1/24  
**Date of Issue** 2024-07-29  
**Date of Revision** N/A  
**Certificate Holder** Hilti (Aust.) Pty. Ltd  
1G Homebush Bay Drive  
PO Box 3217  
Rhodes NSW 2138

**Manufacturer** Hilti AG,  
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FL-9494 Schaan  
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Internet: [www.hilti.com](http://www.hilti.com)

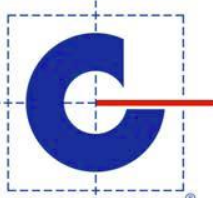
**Production Sites (Factory)** Hilti Plant 4a

**Certified Product Description** Firestopping Sealant  
**Model(s)** Hilti CFS-TTS E Firestop Top Track Seal  
**Trade Name or Trademark** Hilti CFS-TTS E Firestop Top Track Seal  
**Rating Information** Refer to Appendix A  
**Standard tested to** AS 1530.4:2014 and AS 4072.1:2005  
**Test Report References** See page 24  
**Listing Category and File Ref** AUED.RS5418  
**Additional Information and Conditions** See page 2  
**Expiry date** 2034-07-29



Stuart Foster  
Certification Officer

**JAS-ANZ**



Certification Body

[www.jas-anz.org/register](http://www.jas-anz.org/register)

This is to certify that representative samples of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UL-AU Mark Scheme requirements and JAS-ANZ accreditation requirements. The designated Certificate Holder is entitled to use the UL-AU Mark for the Certified Product manufactured at the production site(s) identified above, in accordance with the UL-AU Mark Scheme Service Agreement. Only those Products bearing the UL-AU Mark for Australia should be considered as being covered by UL's UL-AU Mark Service. This certificate shall remain valid through to the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior to the expiration date.

This Certificate remains the property of UL International New Zealand Ltd.

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All dates are in Year-Month-Day format (YYYY-MM-DD).

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# APPENDIX - UL-AU CERTIFICATE

<b>Certificate No.</b>	UL-AU-230007
<b>Page</b>	2/24
<b>Date of Issue/Revision</b>	2024-07-29

## Additional Information:

This certificate is evidence that prototypes of the nominated products and their configurations as detailed in Appendix A conform to the following parameters:

1. Have been tested to AS 1530.4:2014 and AS 4072.1:2005 or an equivalent or more severe test and the Fire Resistance Level (FRL) nominated in Appendix A was achieved by the prototype for each nominated assembly of service penetration, building element and protection method configuration, without the assistance of an active fire suppression system.
2. Test results are detailed in a confidential test report that may be available from the certificate holder upon request. The information regarding the test parameters is included in the confidential technical file.
  - (i) the method and conditions of the test;
  - (ii) form of construction of the tested prototype; and
  - (iii) that restraint complied with AS 1530.4.
3. Testing was conducted at multiple locations by suitably accredited laboratories that are accredited by a signatory to the International Accreditation Cooperation Mutual Recognition Arrangement (ILAC-MRA) as recognised by NATA who is also a signatory body to this Agreement. The data has been reviewed by UL against the relevant to accreditation schedules.

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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
Page 3/24  
Date of Issue/Revision 2024-07-29

The UL Enhanced Mark shall appear on certified products only and shall be used only in accordance with the UL-AU Mark Scheme Service Terms. Minimum size is not specified, as long as the Mark is legible. The following are examples of the format.



The file number that replaces E123456 and NC12345 in the above examples is; **RS5418**

The following Supplementary Information shall be placed adjacent to the Certification Mark;  
**Firestopping - Intumescent Seals and Fire Pillows**  
**AS 1530.4**

The UL Enhanced Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this Certificate.

## PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at [www.ul.com](http://www.ul.com).

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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 4/24  
 Date of Issue/Revision 2024-07-29

## Appendix A

### Conforming product configurations to achieve nominated FRL's

#### A.1 Hilti CFS-TTS E Firestop Top Track Seal:

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

CFS-TTS E is available in 50 (E5), 62 (E6), 74 (E7) and 95 (E9) mm in width fitting to different steel track sizes.

CFS-TTS ES is available for use in replacement of all plasterboard wall steel top track sizes mentioned above and for double stud installation, which correspond to ES with tear line in the mid of back and two strips of adhesion ribbon at the inner edges of the back to ease installation on track (see also Annex B, picture 1).

#### Technical product literature:

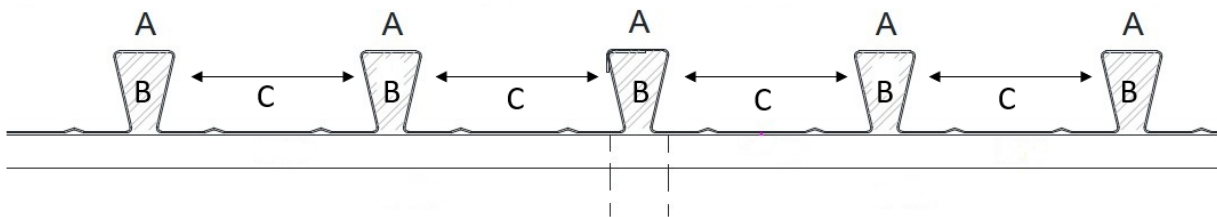
Technical Data Sheet Hilti CFS-TTS E Firestop Top Track Seal

#### RESISTANCE TO FIRE CLASSIFICATION AND USE CATEGORIES FOR DRYWALL PARTITIONS USING HILTI CFS-TTS E FIRESTOP TOP TRACK SEAL

##### A.1.1 Specific characteristics for floor / ceiling base material

Rigid floors: The solid floor/ceiling (E) must have a minimum thickness  $t_E \geq 100$  mm and comprise of concrete with a density of about 2400 kg/m<sup>3</sup>.

**A.1.1.1 Metal deck floors:** Maximum height of deck profile is 65 mm. Overall area restricted to 0.00957 m<sup>2</sup> for each profile



A- Metal decking profile  
 B- Metal decking filled with 10 mm depth of Hilti CP606. Cavity backfilled with insulation

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# APPENDIX - UL-AU CERTIFICATE

<b>Certificate No.</b>	UL-AU-230007
<b>Page</b>	5/24
<b>Date of Issue/Revision</b>	2024-07-29

## A.1.1.2 Standard flexible wall construction

FRL -/60/60 Standard flexible wall construction

The wall must have a minimum thickness of 90 mm and consisted of steel stud framing (minimum 64 mm) lined on both faces with minimum of 1 layer of 13 mm thick fire grade plasterboard and must be tested to achieve an FRL of -/60/60 or 60/60/60. The plasterboard construction can occasionally include 2 layers of 13 mm thick fire grade plasterboard in one of the faces.

FRL -/90/90: The wall must have a minimum thickness of 96 mm and consisted of steel stud framing (minimum 64 mm) lined on both faces with minimum of 1 layer of 16 mm thick fire grade plasterboard and must be tested to achieve an FRL of -/90/90 or 90/90/90.

FRL -/120/120: The wall must have a minimum thickness of 116 mm and consisted of steel stud/timber framing (minimum 64 mm for steel, 70 mm for timber) lined on both faces with minimum of two layers of 13 mm or 16 mm thick fire grade plasterboard and must be tested to achieve an FRL of -/120/120 or 120/120/120.

For all plasterboard system described above, fire rated gypsum plaster boards can optionally be Knauf Firestop, CSR Gyprock Fyrchek, Siniat Fireshield, GIB Fyrelite, BGC Fireboard / GTEK Fire, Elephant Plasterboard and Midland Fire- Resistant Plasterboard. All plasterboard system shall be tested or assessed to AS 1530.4 and achieve described FRL.

## A.1.2 Wall Cavity Insulation

For all plasterboard system described in A.1.1, Wall cavity insulation can optionally be Bradford Acoustigard, GreenStuf, Pink Batts, Earthwool or similar insulation with same thickness, density and R value as stipulated below.

Thickness shall be minimum 50 mm  
R Value shall be R1.2 or higher

## A.1.3 Fasteners of top / deflection head track

X-X 27 MX / P8, X-C 20 MX, X-C 22 P8 S15-TH, X-C 20 B3, X-C 20 B3 MX, X-P 17 B3 MX, X- P 20 B3 MX, X-P 24 B3 MX, X-P 17 G3, X-P 17 G3 MX, X-P 20 G3 MX, X-GN 20 MX, X-GHP 18 MX, HUS3-P/H 6 x 35 and deeper embedment, HUS3-P/H 8 (Range), HUS3-P/H 10 (Range), DBZ 6/4.5, HFB 6 x 35 and deeper embedment or equivalent

*“For the fixing of partition wall tracks and deflection heads in seismic-relevant applications and/or cracked concrete, the Hilti X-X 27MX / P8 nail has been tested and recommended.”*

## A.2 Top of wall seal - installation specifics

Hilti CFS-TTS E Firestop Top Track Seal is applied on the topside on dry walls. It is placed on the upper horizontal top track/deflection head track, along the entire width of the wall. The (gypsum plasterboard) lining is fixed onto the vertical studs, compressing (a minimum) of 11 mm of the Hilti CFS-TTS E Firestop Top Track Seal, leaving a top joint of maximum 30 mm width depending on movement indication.

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# APPENDIX - UL-AU CERTIFICATE

**Certificate No.** UL-AU-230007  
**Page** 6/24  
**Date of Issue/Revision** 2024-07-29

The gap will accommodate the incidental movement of the ceiling relative to the wall.

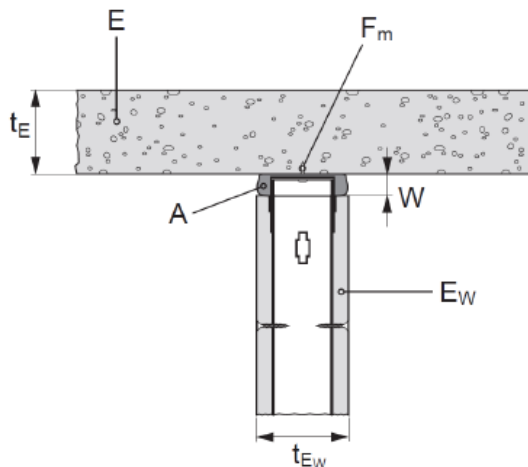
Nominal gap width (W): up to 20 mm;

**Table 1: CFS TTS E size selection table**

CFS TTS E is manufactured fit track width for easy installation, any larger CFS TTS E size if taped or folded to fit the top track can achieve the designated FRL, table below suggests most suitable CFS TTS E size according to the track size

Track config and size	Hilti CFS-TTS E FIRESTOP Top Track Seal Size
64-65 mm	Firestop top track seal CFS-TTS E6 OR Firestop top track seal CFS-TTS ES
71-77 mm	Firestop top track seal CFS-TTS E7 OR Firestop top track seal CFS-TTS ES
92-98 mm	Firestop top track seal CFS-TTS E9 OR Firestop top track seal CFS-TTS ES
150 mm	Firestop top track seal CFS-TTS ES
double stud walls (single stud size as above)	Firestop top track seal CFS-TTS ES

General construction details:



- A = Hilti Fire Stop Product CFS-TTS E
- E = ceiling; concrete according to Annex A.1.1.1 or Annex A.1.1.1
- E<sub>w</sub> = flexible wall according Annex A.1.1.2, A.1.2
- F<sub>m</sub> = Material/anchors to fix track to concrete ceiling according Annex A.1.3 (see specific application)
- t<sub>E</sub> = thickness of concrete slab
- W = maximal top joint width

Stud and top track flanches are overlapping but are not fixed to each other. Also refers to plasterboard manufacturer installation details

Splices by CFS-TTS E pieces are allowed. At each splice a compression should be considered corresponding to an extra length of CFS-TTS E of 13 mm/3 m (see also Appendix B, picture 2, 4)

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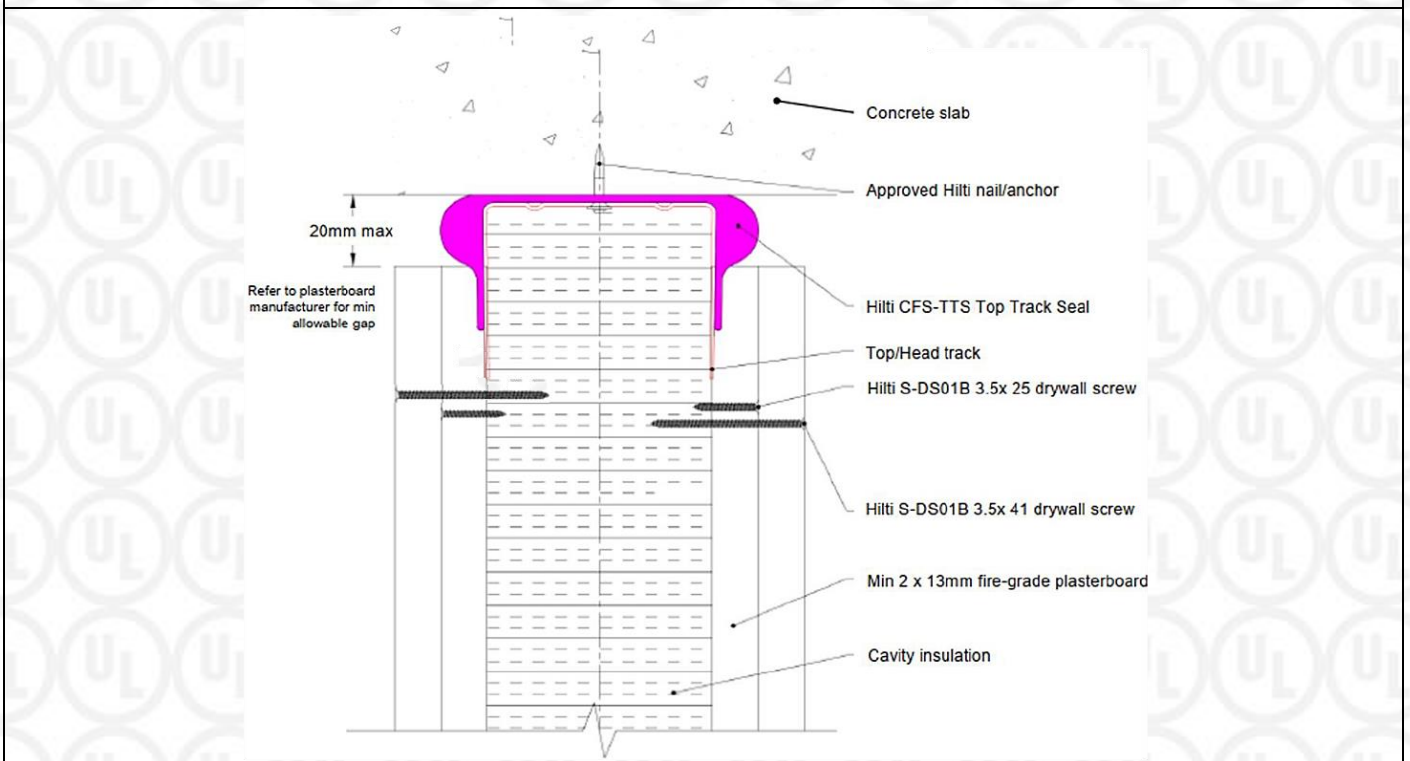
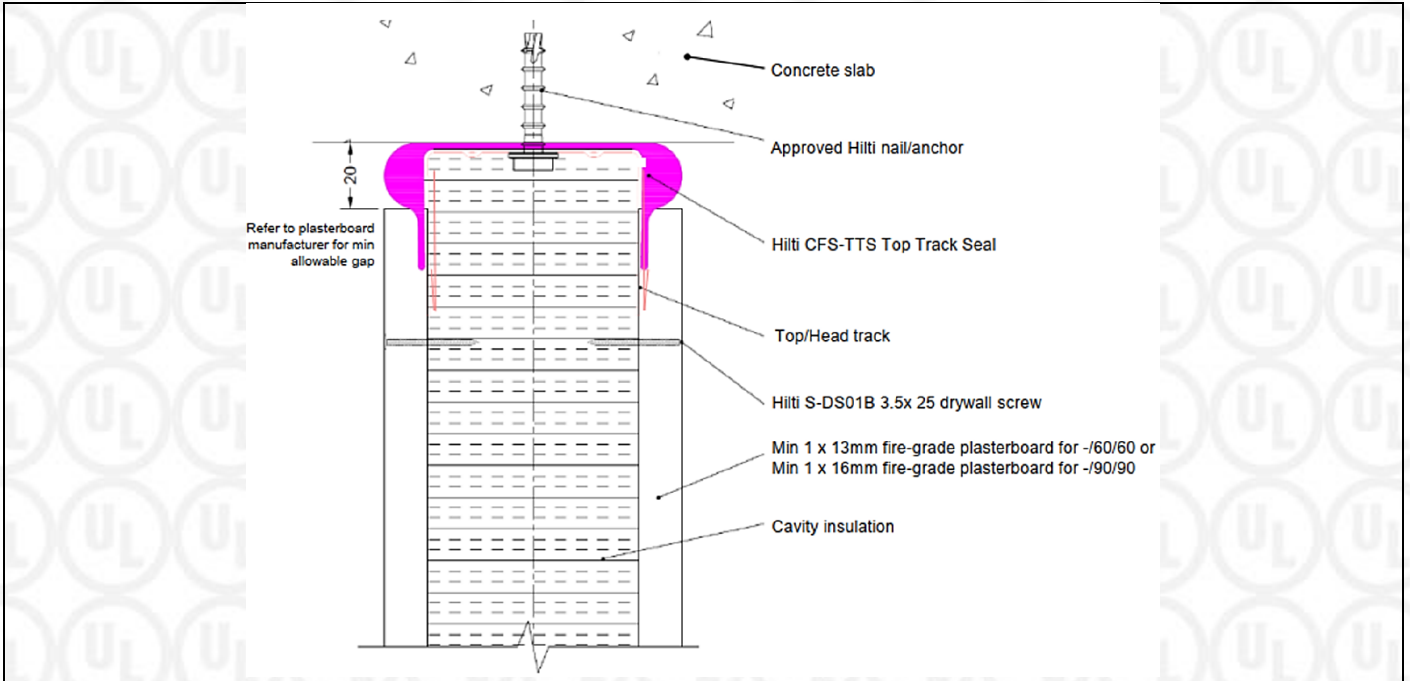




# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
Page 7/24  
Date of Issue/Revision 2024-07-29

**A.3 Specific description of Drywall partitions using Hilti CFS-TTS E Firestop Top Track Seal**  
**A.3.1 Hilti CFS TTS E in top of wall joint in flexible wall construction with concrete floor**



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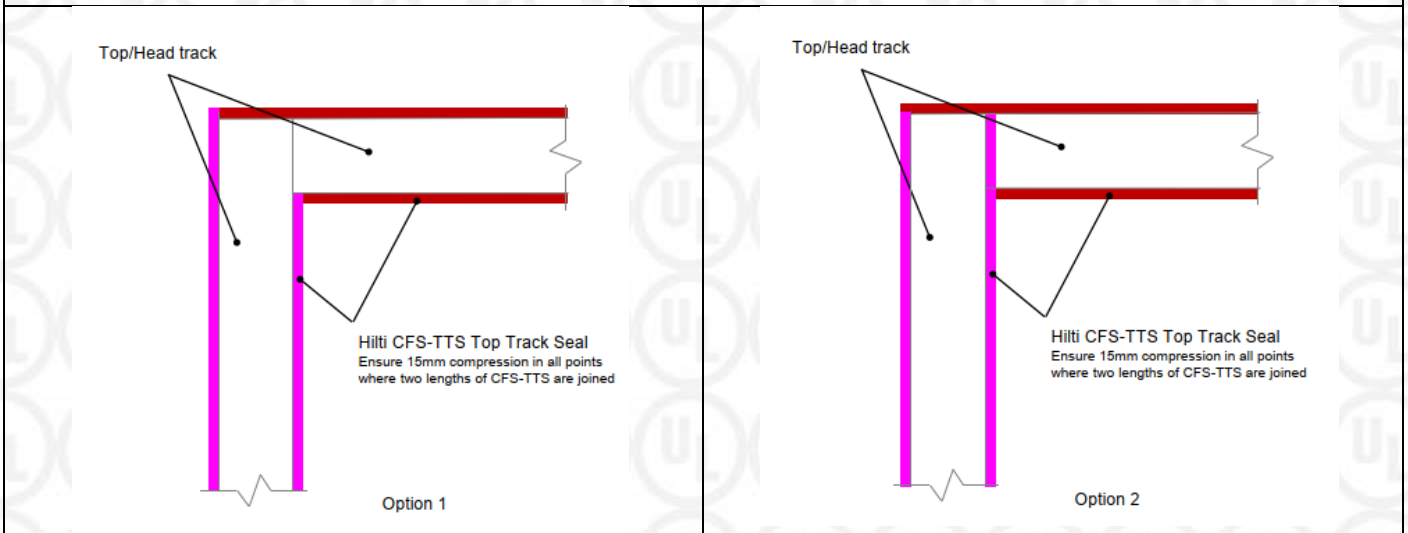
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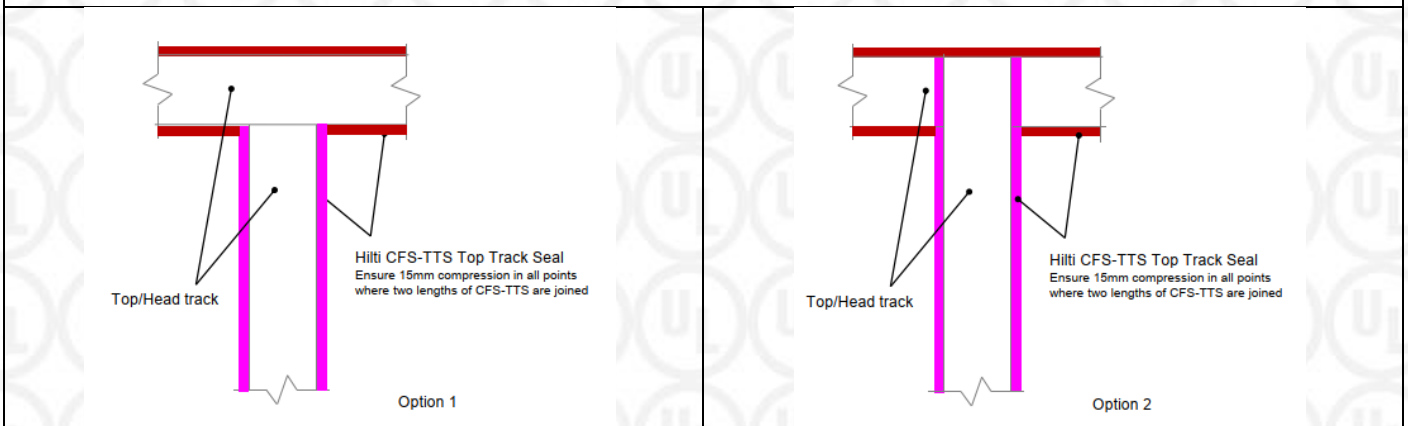
# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
Page 8/24  
Date of Issue/Revision 2024-07-29

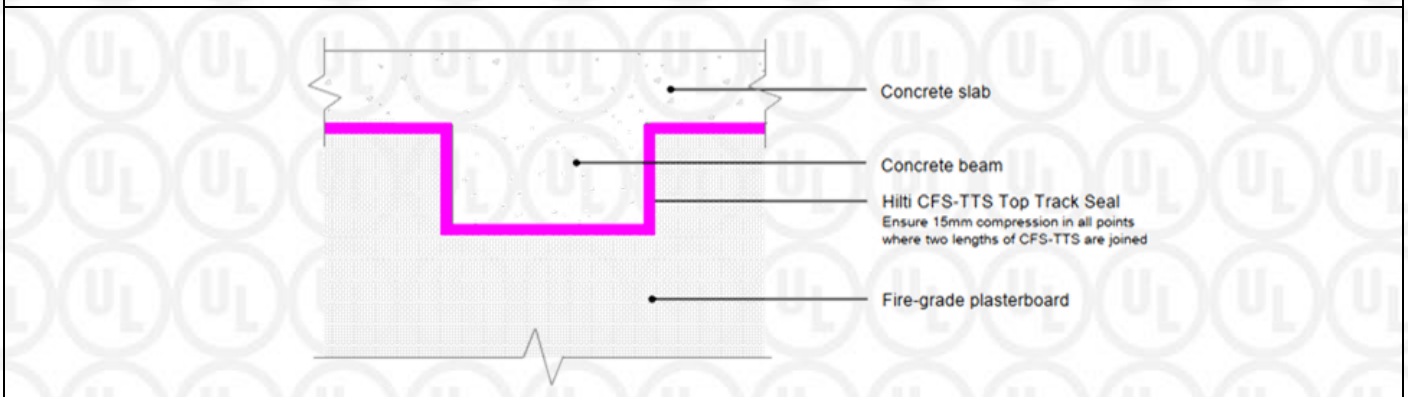
## CFS TTS E corner details



## CFS TTS E T-joint details



## CFS TTS E around deep beam installation



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# APPENDIX - UL-AU CERTIFICATE

**Certificate No.** UL-AU-230007  
**Page** 9/24  
**Date of Issue/Revision** 2024-07-29

Separating element (minimum thickness)	Track size	Maximum top joint width	Top Track Fasteners	Hilti CFS TTS E top track seal	Joint construction	FRL
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	Min. 64 mm as per Table 1: CFS TTS E size selection table in Section A.2	20 mm	Refers to A.1.3 Fasteners of top / deflection head track	Firestop top track seal CFS-TTS E6* Firestop top track seal CFS-TTS E7* Firestop top track seal CFS-TTS E9* Firestop top track seal CFS-TTS ES* as per Table 1: CFS TTS E size selection table in Section A.2	Horizontal, corners, T-joints, around deep beam	-/60/60
Min. 96 mm (min. 1 x 16 mm) plasterboard wall						-/90/90
Min. 116 mm (min. 2 x 13 mm) or min. 128 mm (min. 2 x 16 mm) plasterboard wall						-/120/120

\* As per Table 1: CFS TTS E size selection table in Section A.2

Hilti CFS TTS E can be used in conjunction with Hilti CP 606 when needed following this certificate and latest CP 606 UL certificate

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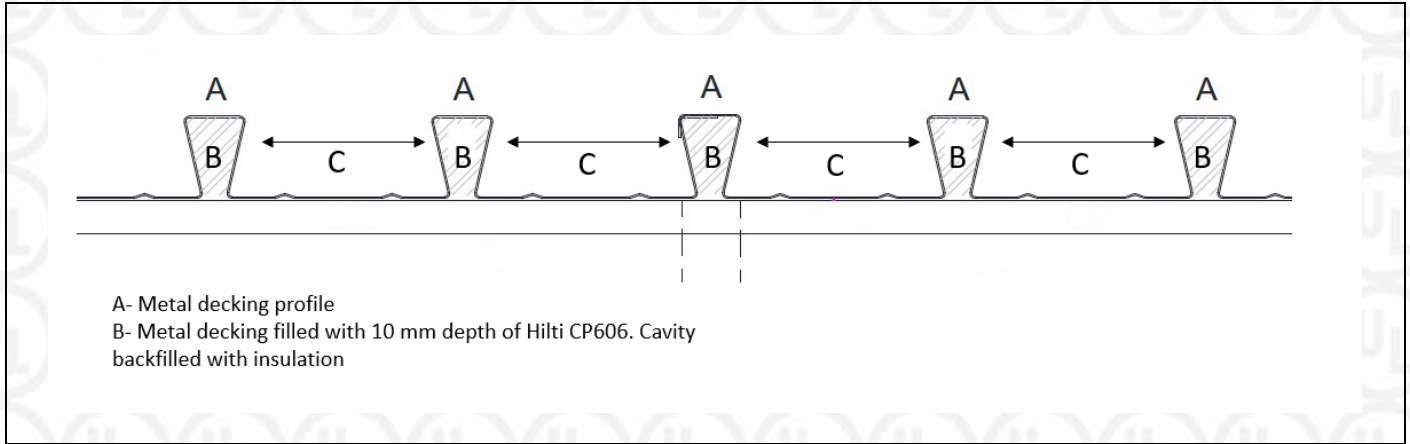
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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 10/24  
 Date of Issue/Revision 2024-07-29

## A.3.2 Hilti CFS TTS E in top of wall joint in flexible wall construction with metal decking



Separating element (minimum thickness)	Track size	Maximum joint width	Top track Fasteners	Hilti CFS TTS E top track seal	Metal deck dimension	Metal deck sealing	FRL*
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	64-65 mm	20 mm	Refers to A.1.3 Fasteners of top / deflection head track	Firestop top track seal CFS-TTS E6*	Maximum metal deck profile height 65 mm. seal area within the profile is restricted to 0.00957 m <sup>2</sup>	Hilti CP606 ,10 mm deep on both sides. Cavity backfilled with mineral rockwool insulation (density 100 kg/m <sup>3</sup> )	-/60/60**
	71-77 mm			Firestop top track seal CFS-TTS E7*			
	92-98 mm			Firestop top track seal CFS-TTS E9*			
	≥92 mm single stud or double stud walls with total track width ≥92 mm			Firestop top track seal CFS-TTS ES*			

#This table is applicable if the wall is perpendicular to the metal decking. If the wall is parallel to the decking, listed FRLs are applicable without the necessity of “Metal deck profile sealing”. The width between the decking (indicated as C in Figure 7) must be greater than the thickness of the wall. The wall must be installed in between the decking profile (within C section) and the head track and the CFS TTS E must not be exposed to the metal decking profile cavity.

\* CFS TTS E size refers to A.2 Table 1: CFS TTS E size selection table

Hilti CFS TTS E can be used in conjunction with Hilti CP 606 when needed following this certificate and latest CP 606 UL certificate

\*\*Any CFS TTS E type

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# APPENDIX - UL-AU CERTIFICATE

**Certificate No.** UL-AU-230007  
**Page** 11/24  
**Date of Issue/Revision** 2024-07-29

Separating element (minimum thickness)	Track size	Maximum joint width	Top track Fasteners	Hilti CFS TTS E top track seal	Metal deck dimension	Metal deck sealing	FRL#
Min. 96 mm (min. 1 x 16 mm) or min. 116 mm (min. 2 x 13 mm) plasterboard wall	64-65 mm	20 mm	Refers to A.1.3 Fasteners of top / deflection head track	Firestop top track seal CFS-TTS E6*	Maximum metal deck profile height 65 mm. seal area within the profile is restricted to 0.00957 m <sup>2</sup>	Hilti CP606 ,10 mm deep on both sides. Cavity backfilled with mineral rockwool insulation (density 100 kg/m <sup>3</sup> )	-/60/60
	71-77 mm			Firestop top track seal CFS-TTS E7*			-/90/90
	92-98 mm			Firestop top track seal CFS-TTS E9*			
	≥92 mm single stud or double stud walls with total track width ≥92 mm			Firestop top track seal CFS-TTS ES*			

\*This table is applicable if the wall is perpendicular to the metal decking. If the wall is parallel to the decking, listed FRLs are applicable without the necessity of “Metal deck profile sealing”. The width between the decking (indicated as C in Figure 7) must be higher than the thickness of the wall. The wall must be installed in between the decking profile (within C section) and the head track and the CFS TTS E must not be exposed to the metal decking profile cavity.

\* CFS TTS E size refers to A.2 Table 1: CFS TTS E size selection table in Section Hilti CFS TTS E can be used in conjunction with Hilti CP 606 when needed following this certificate and latest CP 606 UL certificate

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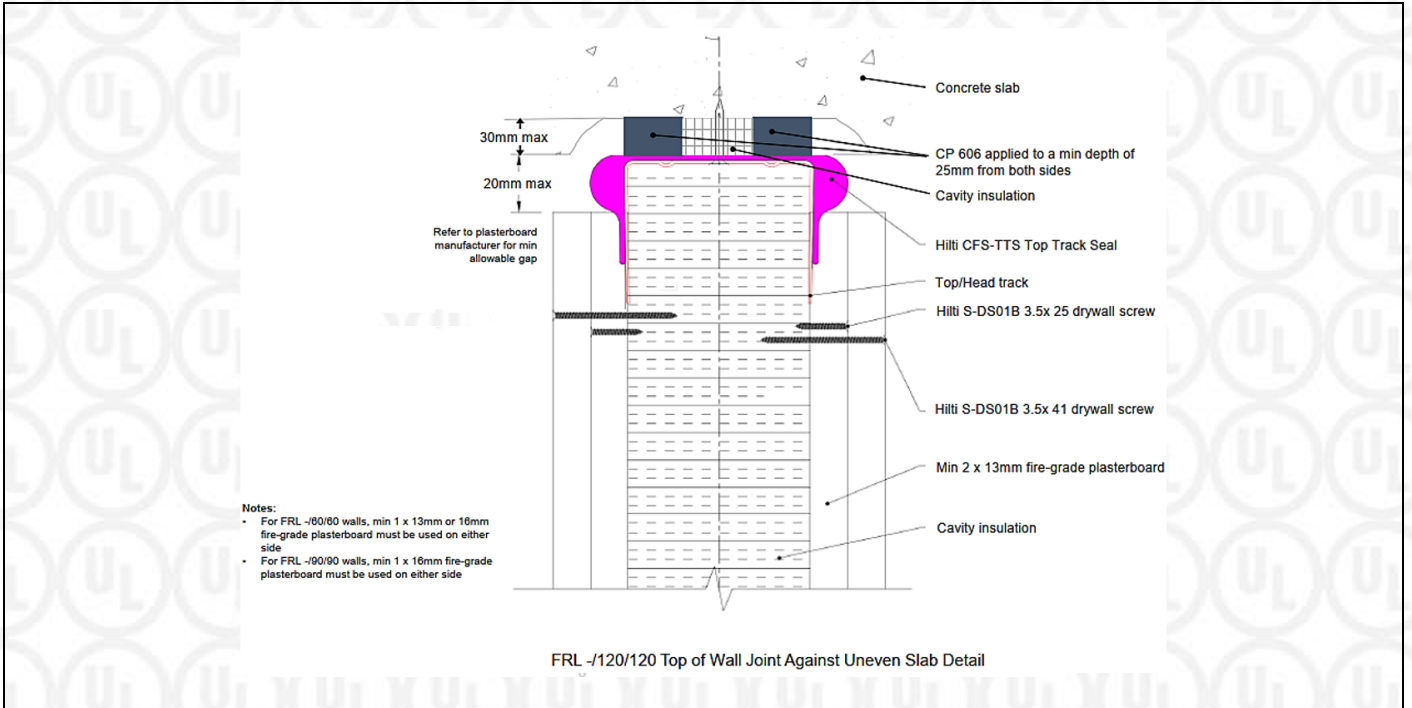




# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 12/24  
 Date of Issue/Revision 2024-07-29

## A.3.3 Hilti CFS TTS E in top of wall joint in flexible wall construction with uneven horizontal surfaces



Separating element (minimum thickness)	Track size	Maximum top joint width	Top track Fasteners	Maximum allowable overhead gap	Hilti CFS TTS E top track seal	Sealing system	FRL*
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	Min. 64 mm as per Table 1: CFS TTS E size selection table in Section A.2	20 mm	Refers to A.1.3 Fasteners of top / deflection head track	30 mm	Firestop top track seal CFS-TTS E6* Firestop top track seal CFS-TTS E7* Firestop top track seal CFS-TTS E9* Firestop top track seal CFS-TTS ES*	Hilti CP606 25 mm deep. The cavity backfilled with mineral rockwool insulation (density 100 kg/m <sup>3</sup> )	-/60/60
Min. 96 mm (min. 1 x 16 mm) plasterboard wall							-/90/90
Min. 116 mm (min. 2 x 13 mm) plasterboard wall							-/120/120

\* As per Table 1: CFS TTS E size selection table in Section A.2

Hilti CFS TTS E can be used in conjunction with Hilti CP 606 when needed following this certificate and latest CP 606 UL certificate

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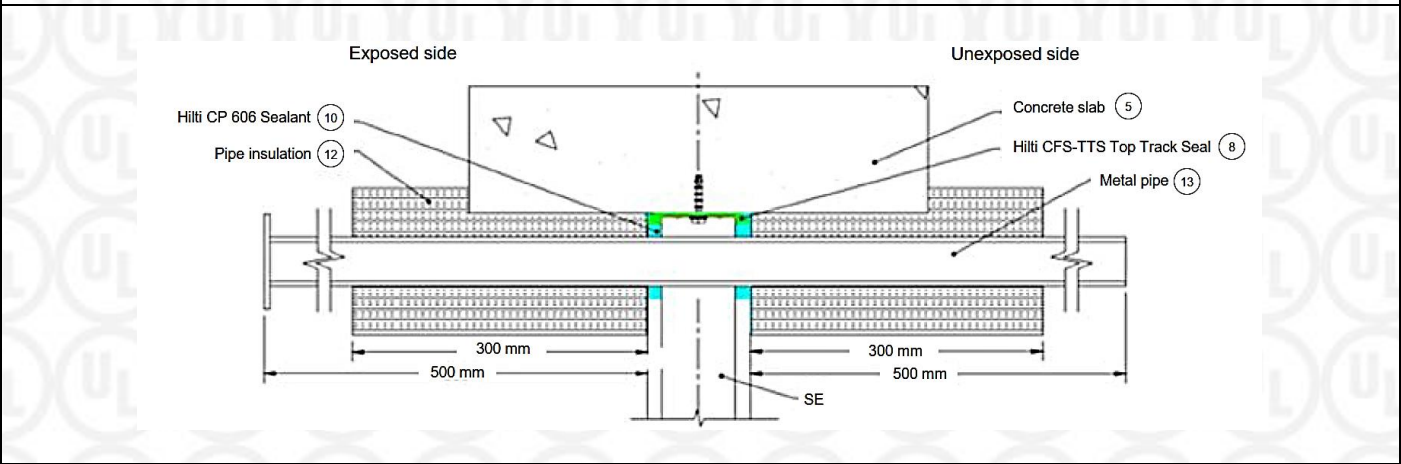


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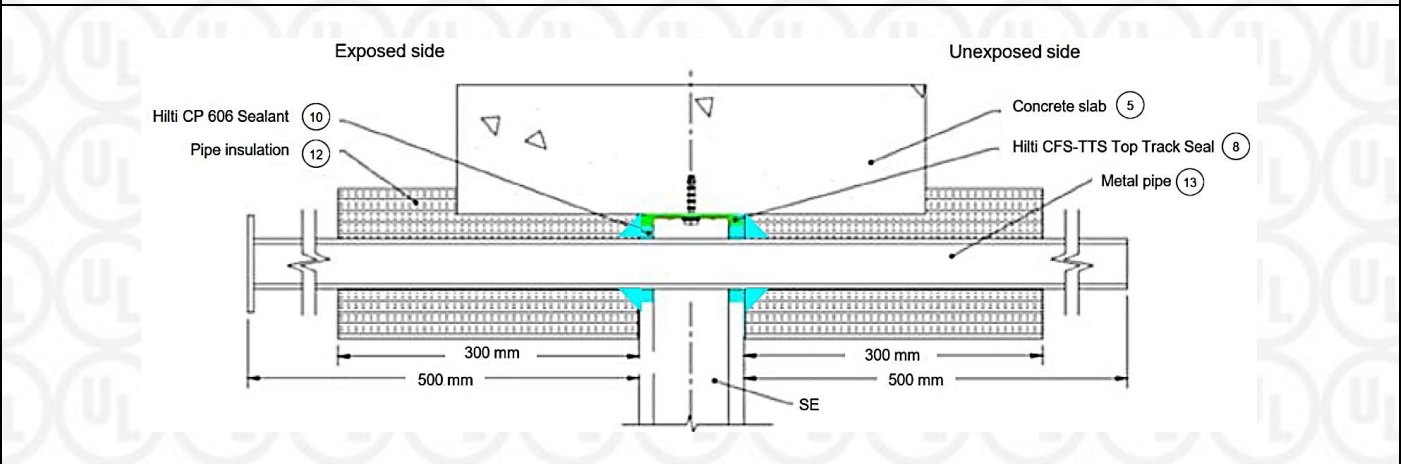
Certificate No. UL-AU-230007  
 Page 13/24  
 Date of Issue/Revision 2024-07-29

## A.3.4 Pipe penetrates through Hilti CFS TTS E in top of wall joint in flexible wall construction – metal pipes

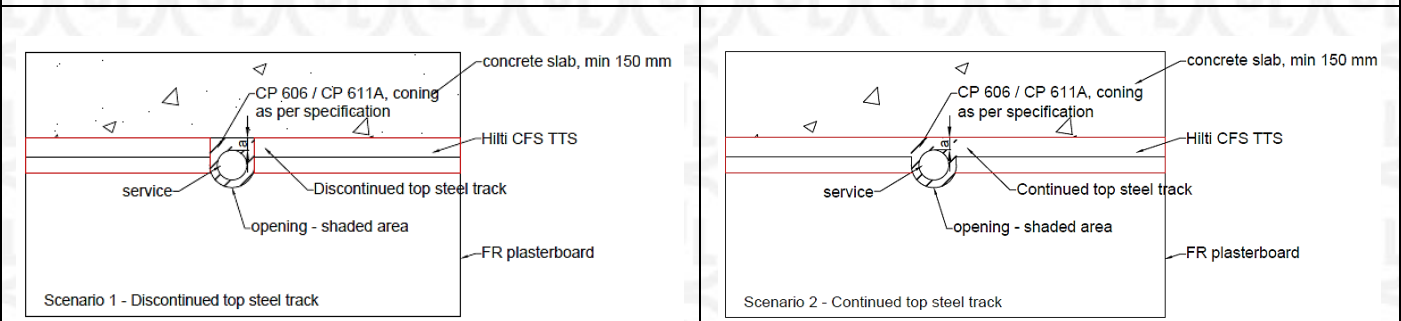
### A) Metal pipes passing through CFS TTS E without sealant coning.



### B) Metal pipes passing through CFS-TTS E with 50 mm x 50 mm CP 606 sealant coning for 90 and 120 minutes (as applicable) insulation performance



### Track configurations



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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 14/24  
 Date of Issue/Revision 2024-07-29

Separating element (minimum thickness)	Service	Aperture and annular gap	Sealant	Top track config	Insulation	FRL
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	Up to DN 40 mm dia. steel pipe as per AS 4118.2.1 and AS 2419 (Standard sprinkler pipe)	Maximum aperture 64 mm. Annular gap must not exceed 12 mm.	CP 606 to seal the annular gap as illustrated in Section A.3.4 A).	The service can either penetrate top track and CFS TTS E OR Top track can be stopped and start around service	38 mm thick mineral insulation up to 300 mm on each side (minimum nominal density 100 kg/m <sup>3</sup> )	-/60/60
Min. 96 mm (min. 1 x 16 mm) plasterboard wall			CP 606 to seal the annular gap and application of 50 mm x 50 mm CP 606 in cone configuration around the service. The sealing details are illustrated in Section A.3.4 B).			-/90/90
Min. 116 mm (min. 2 x 13 mm) plasterboard wall						-/120/120

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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 15/24  
 Date of Issue/Revision 2024-07-29

Separating element (minimum thickness)	Service	Aperture and annular gap	Sealant	Top track config	Insulation	FRL
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	Up to DN20 mm copper pipe as per AS 1432 (Standard copper pipe)	Maximum aperture 48 mm. Annular gap must not exceed 14 mm.	CP 606 to seal the annular gap as illustrated in Section A.3.4 A).	The service can either penetrate top track and CFS TTS E OR Top track can be stopped and start around service	38 mm thick mineral insulation up to 300 mm on each side (minimum nominal density 100 kg/m <sup>3</sup> )	-/60/60
Min. 96 mm (min. 1 x 16 mm) plasterboard wall			CP 606 to seal the annular gap and application of 50 mm x 50 mm CP 606 in cone configuration around the service. The sealing details are illustrated in Section A.3.4 B).			-/90/90
Min. 116 mm (min. 2 x 13 mm) plasterboard wall						-/120/120

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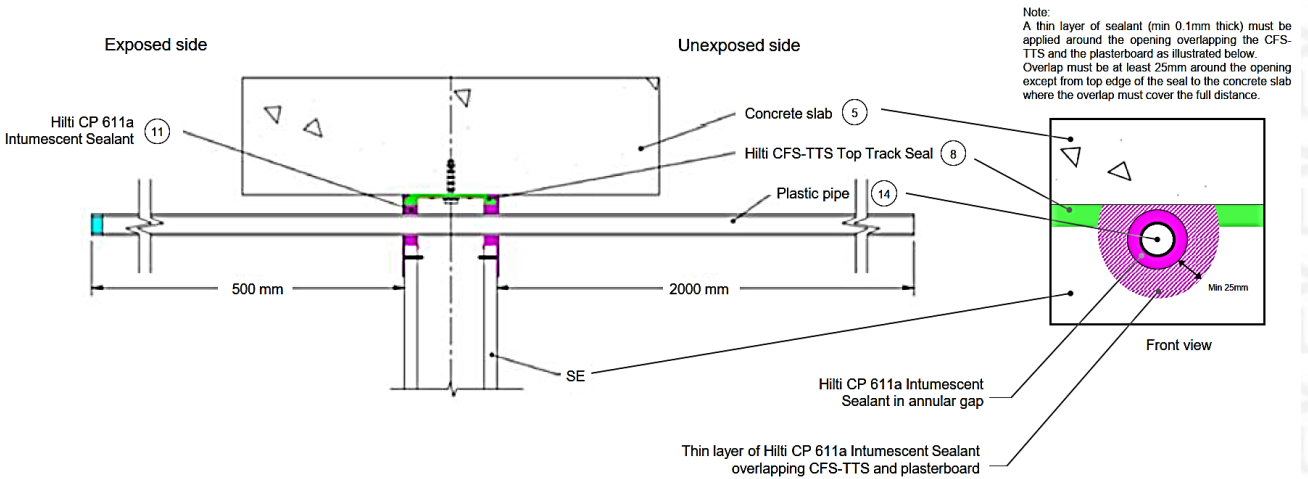


# APPENDIX - UL-AU CERTIFICATE

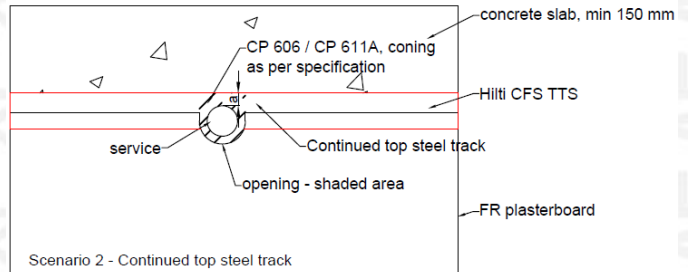
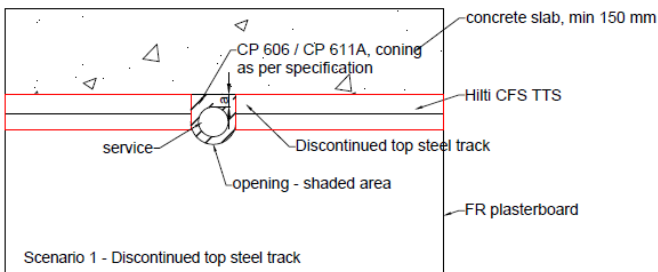
Certificate No. UL-AU-230007  
 Page 16/24  
 Date of Issue/Revision 2024-07-29

## A.3.5 Pipe penetrates through Hilti CFS TTS E in top of wall joint in flexible wall construction – plastic pipes

### A) Plastic pipes passing through CFS-TTS E without sealant coning.



### Track configurations



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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 17/24  
 Date of Issue/Revision 2024-07-29

Separating element (minimum thickness)	Service*	Pipe Wall Thickness	Aperture and annular gap	Sealant	Top track config	FRL
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	16 mm Pex-a	Maximum 2.3 mm	Maximum aperture 38 mm. Maximum annular gap must not exceed 9 mm.	CP 611a to seal the annular gap as illustrated in Section A.3.5 A).	The service can either penetrate top track and CFS TTS E OR Top track can be stopped and start around service	-/60/60
	20 mm Pex-a					
	16 mm Pex-b					
	20 mm Pex-b					
Min. 96 mm (min. 1 x 16 mm) plasterboard wall	16 mm Pex-a/Al/Pex-a	Maximum 2.0 mm				-/90/60
	20 mm Pex-a/Al/Pex-a					
Min. 116 mm (min. 2 x 13 mm) plasterboard wall	16 mm Pex-b/Al/Pex-b					-/120/60
	20 mm Pex-b/Al/Pex-b					

\*Services can be optionally positioned 5 mm or 0 mm from the seal edge

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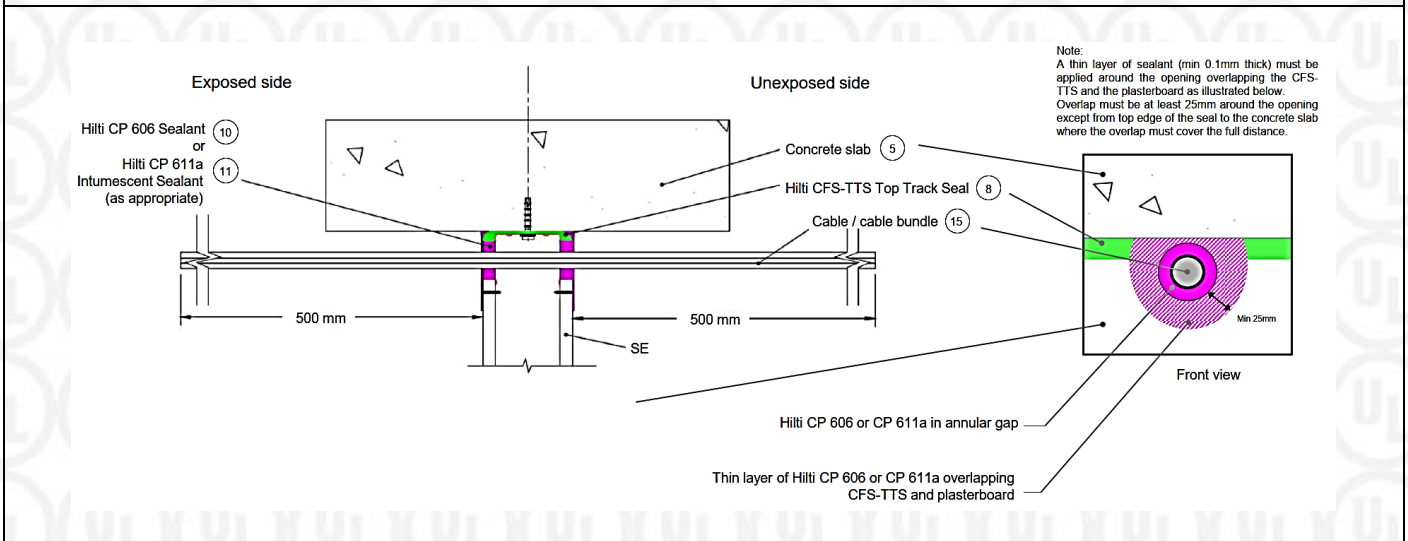


# APPENDIX - UL-AU CERTIFICATE

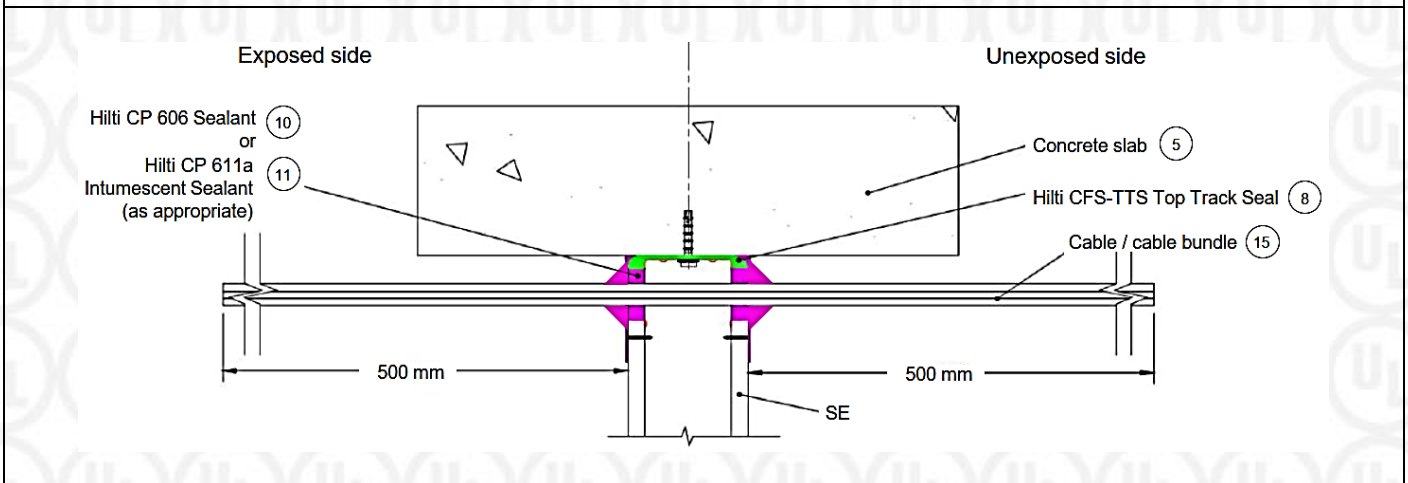
Certificate No. UL-AU-230007  
 Page 18/24  
 Date of Issue/Revision 2024-07-29

## A.3.6 Cable or cable bundles penetrates through Hilti CFS TTS E in top of wall joint in flexible wall construction

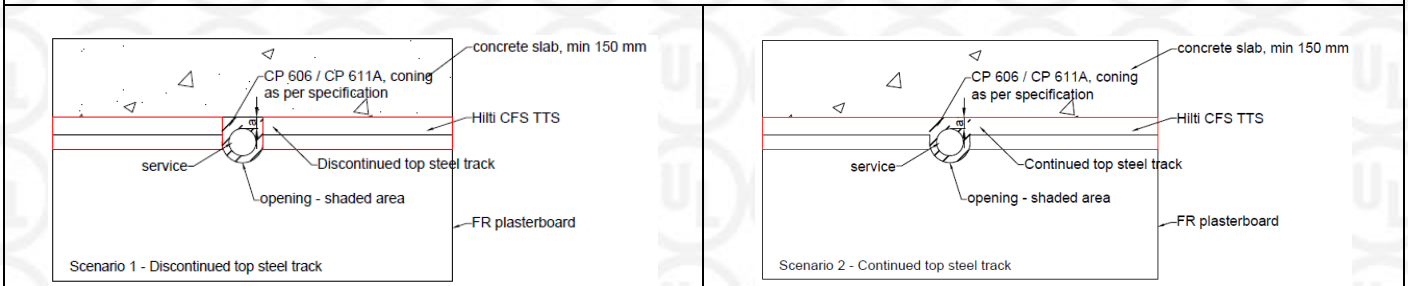
### Single cable or cable bundles passing through Hilti CFS-TTS E without sealant coning.



### Single cable or cable bundle passing through Hilti CFS-TTS E with CP 606 and CP 611a (as appropriate) with 50 mm x 50 mm coning for 90 and 120 minutes (as appropriate) insulation performance.



### Track coningurations



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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 19/24  
 Date of Issue/Revision 2024-07-29

Separating element (minimum thickness)	Service*	Configuration	Cable details	Aperture and annular gap	Sealant	top track config	FRL	
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	Electrical and communication cables including but not limited to circular submains, flat TPS, RG6 Quad Shield coax cables, data cables (CAT 5, 6, 7, 8), fire rated cables*	Single cable or in cable bundle	1.5 mm fire rated cable, 3 x CAT6 and 3 x RG6 cable bundle, 4 x 2.5 mm TPS cable bundle, 3 x 2.5 mm fire rated cable bundle or any other cable or cable bundle with maximum 30 mm <sup>2</sup> conductor area (applicable to both single and multi-core cables)	Maximum Aperture 38 mm. Maximum annular gap must not exceed 14 mm.	CP 611a seal to the depth of plasterboard and finish flush	The service can either penetrate top track and CFS TTS E OR Top track can be stopped and start around service	-/60/60	
Min. 96 mm (min. 1 x 16 mm) plasterboard wall							CP 611a to seal the annular gap. Additionally, CP 611a in 50 mm x 50 mm cone configuration around the service	-/90/90**
Min. 116 mm (min. 2 x 13 mm) plasterboard wall								-/120/90**

\*The cables could consist of copper conductors sheathed with PVC (if any) and insulated with either PVC or XLPE. The cable or cable bundle will be optionally positioned 0 mm from the seal edge.

\*\*Sealant coning is only required when 90 minutes and 120 minutes of insulation performance is required.

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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 20/24  
 Date of Issue/Revision 2024-07-29

Separating element (minimum thickness)	Service*	Configuration	Cable details	Aperture and annular gap	Sealant	top track config	FRL
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	Electrical and communication cables including but not limited to circular submains, flat TPS, RG6 Quad Shield coax cables, data cables (CAT 5, 6, 7, 8), fire rated cables*	Single cable or in cable bundle	3 × CAT6 cable bundle, 2 × 1.5 mm TPS cable bundle, 2 × RG6 cable bundle or any other cable or cable bundle with maximum 9 mm <sup>2</sup> conductor area (applicable to both single and multi-core cables)	Maximum aperture 16 mm. Maximum annular gap must not exceed 3.5 mm.	CP 606 seal to the depth of plasterboard and finish flush	The service can either penetrate top track and CFS TTS E OR Top track can be stopped and start around service	-/60/60
Min. 96 mm (min. 1 x 16 mm) plasterboard wall							-/90/90
min. 116 mm (min. 2 x 13 mm) plasterboard wall							-/120/120

\*The cables could consist of copper conductors sheathed with PVC (if any) and insulated with either PVC or XLPE. The cable or cable bundle will be optionally positioned 0 mm from the seal edge.

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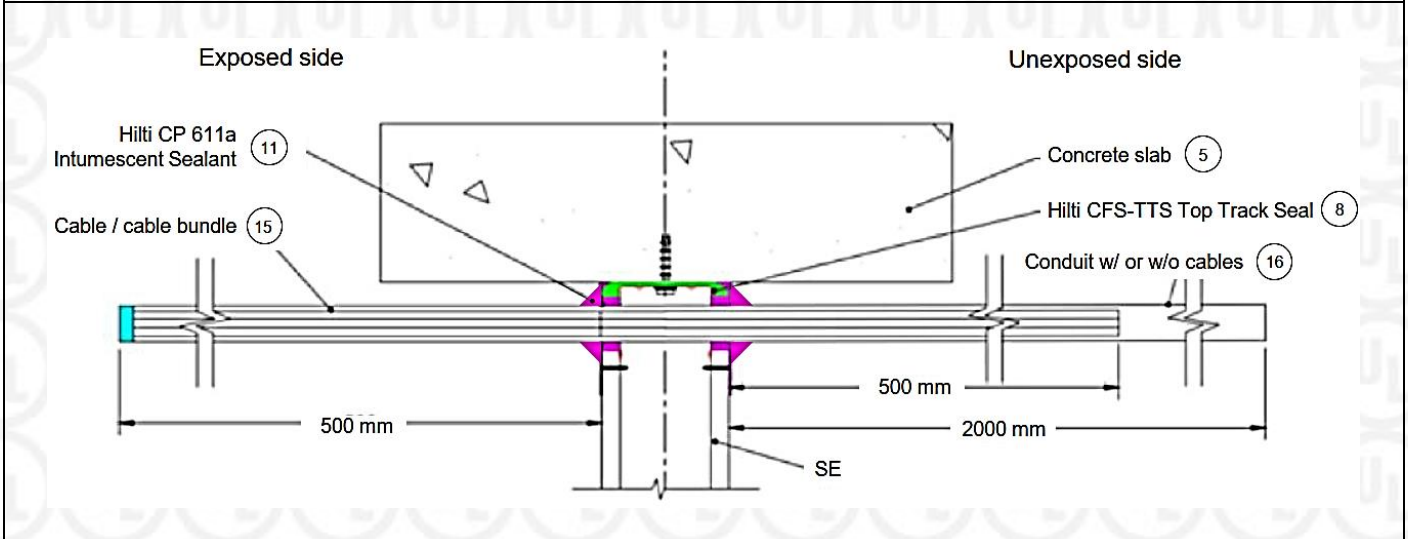


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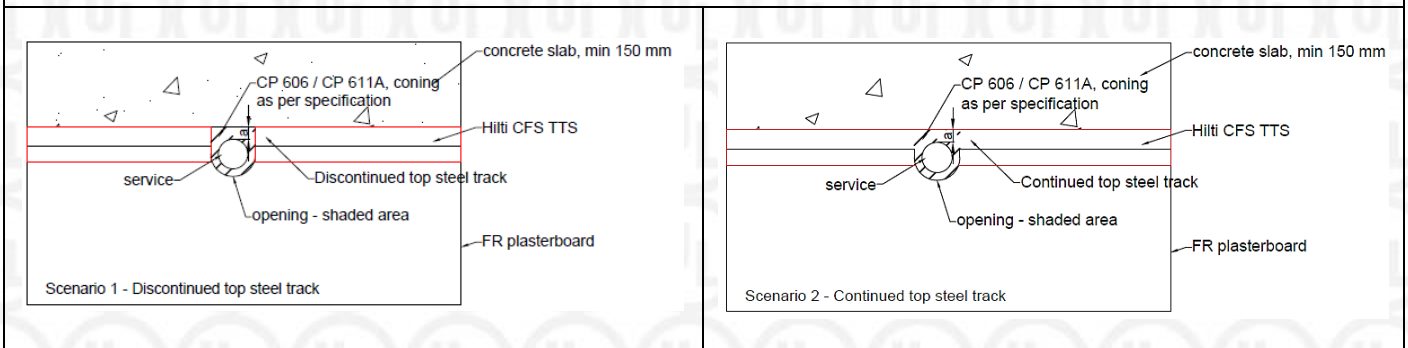
Certificate No. UL-AU-230007  
 Page 21/24  
 Date of Issue/Revision 2024-07-29

## A.3.7 Cable conduit penetrates through Hilti CFS TTS E in top of wall joint in flexible wall construction

Conduits with or without cable infill passing through Hilti CFS-TTS E with CP 606 and CP 611a (as appropriate) with 50 mm x 50 mm coning for 90 and 120 minutes (as appropriate) insulation performance..



### Track configurations



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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 22/24  
 Date of Issue/Revision 2024-07-29

Separating element (minimum thickness)	Service*	Conduit type	Cable in conduit*	Aperture and annular gap	Sealant	Top track config	FRL
Min. 90 mm (min. 1 x 13 mm) plasterboard wall or min. 103 mm (min. 1 x 13 mm on one side, min. 2 x 13 mm on the other) plasterboard wall	16 mm, 20 mm or 25 mm uPVC conduit*	Flexible or rigid	With or without cables. Cables could be 3 x CAT6 and 3 x RG6 cable bundle or any other cable or cable bundle with maximum conductor area of 2.4 mm <sup>2</sup> (applicable to both single and multi-core cables).	Maximum Aperture 38 mm. Maximum annular gap must not exceed 6.5 mm.	CP 611a seal to the depth of plasterboard and finish flush	The service can either penetrate top track and CFS TTS E OR Top track can be stopped and start around service	-/60/60
Min. 96 mm (min. 1 x 16 mm) plasterboard wall					CP 611a to seal the annular gap. Additionally, CP 611a in 50 mm x 50 mm cone configuration around the service		-/90/90**
Min. 116 mm (min. 2 x 13 mm) plasterboard wall							-/120/120**

\* The cables could be but not limited to circular submains, flat TPS, RG6 Quad Shield coax cables, data cables (CAT 5, 6, 7, 8), fire rated cables. The cables could consist of copper conductors sheathed with PVC (if any) and insulated with either PVC or XLPE.

\*\*Sealant coning is only required when 90 minutes and 120 minutes of insulation performance is required.

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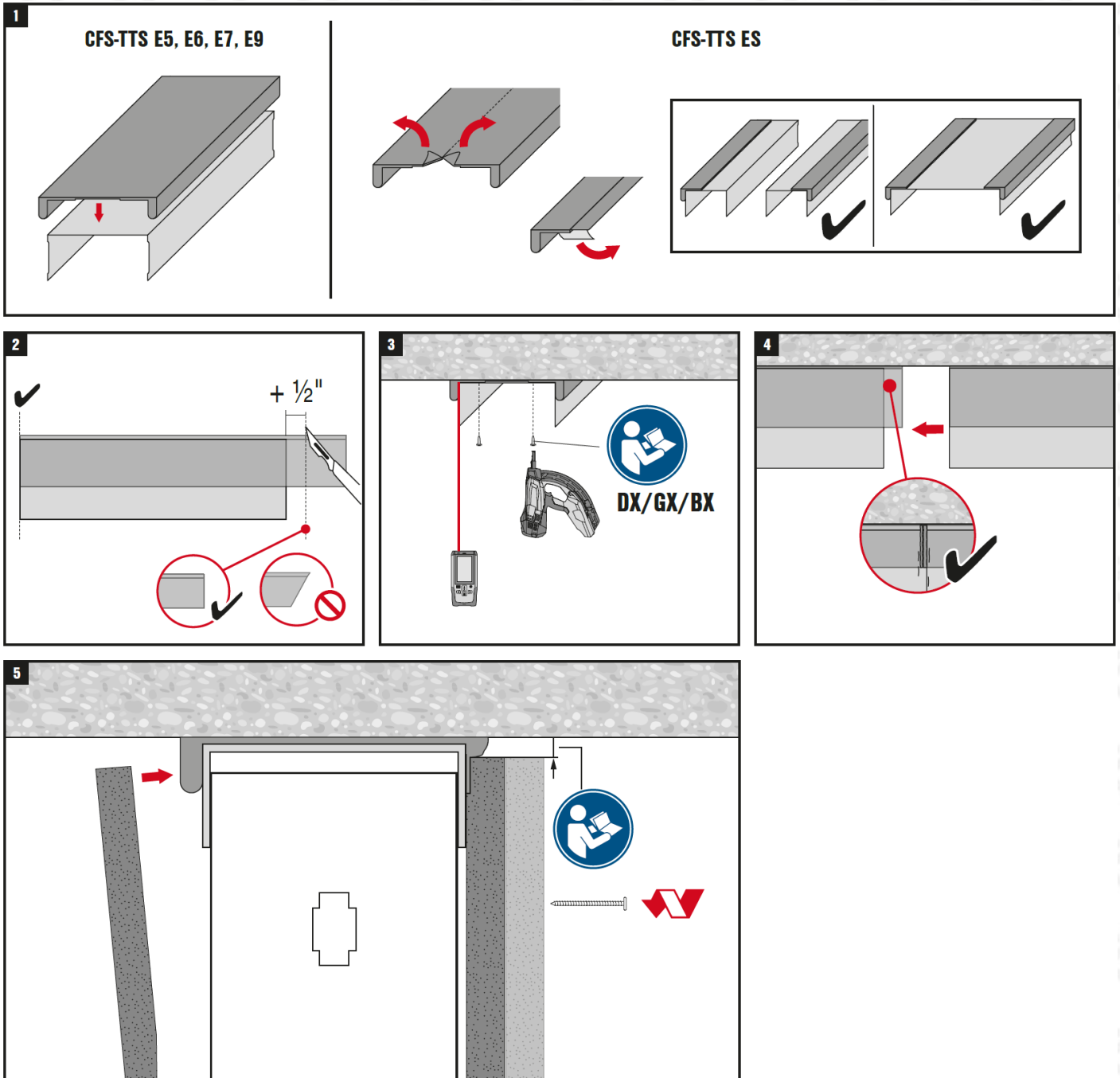
# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
Page 23/24  
Date of Issue/Revision 2024-07-29

## Appendix B

### INSTALLATION OF THE PRODUCT AND ANCILLARY PRODUCT(S)

Installation of the Hilti CFS-TTS E Firestop Top Track Seal should be conducted as follows:



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# APPENDIX - UL-AU CERTIFICATE

Certificate No. UL-AU-230007  
 Page 24/24  
 Date of Issue/Revision 2024-07-29

## Appendix C

### Test report details – report reference.

Name of Test Institute	Owner	Number of Report	Date of Test	Test standard
Exova Warringtonfire	<b>HILTI Aust Pty Ltd</b> 1G Homebush Bay Dr Rhodes NSW 2138	EWFA 55905400.1 date 27.11.2018	24/07/2018	AS 1530.4-2014
Warringtonfire	<b>HILTI Entwicklungsgesellschaft mbH</b> Hiltistrasse 6, Kaufering 86916, Germany	WF 415429 date 07.11.2019	30/09/2019	prEN 1366-4: 2019 (E), July 2019
Warringtonfire	<b>HILTI Entwicklungsgesellschaft mbH</b> Hiltistrasse 6, Kaufering 86916, Germany	WF 415430 date 07.11.2019	30/09/2019	prEN 1366-4: 2019 (E), July 2019
Warringtonfire Australia Pty Ltd	<b>HILTI (Australia) Pty Ltd</b> 1G Homebush Bay Dr Rhodes NSW 2138	FRT190406 R2.0 date 24.12.2019	21/11/2019	AS 1530.4-2014
Warringtonfire Australia Pty Ltd	<b>HILTI (Australia) Pty Ltd</b> 1G Homebush Bay Dr Rhodes NSW 2138	FRT190438 date 31.12.2019	03/12/2019	AS 1530.4-2014
Warringtonfire Australia Pty Ltd	<b>HILTI (Australia) Pty Ltd</b> 1G Homebush Bay Dr Rhodes NSW 2138	FRT200025 date 11.02.2020	11/05/2020	AS 1530.4-2014
Warringtonfire Australia Pty Ltd	<b>HILTI (Australia) Pty Ltd</b> 1G Homebush Bay Dr Rhodes NSW 2138	FRT210149 R1.2 date 09/08/2021	18/06/2021	AS 1530.4-2014
Warringtonfire Australia Pty Ltd	<b>HILTI (Australia) Pty Ltd</b> 1G Homebush Bay Dr Rhodes NSW 2138	FRT200338 R1.1 date 09/03/2021	25/11/2020	AS 1530.4-2014
Warringtonfire Australia Pty Ltd	<b>HILTI (Australia) Pty Ltd</b> 1G Homebush Bay Dr Rhodes NSW 2138	RIR FAS200132 R1.4 date 23/06/2021	n/a	n/a

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