

# CFS-BTS BOTTOM TRACK SEAL

**Installation Guide** 2023



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## GENERAL INFORMATION

## HILTI CFS-BTS BOTTOM TRACK SEAL OVERVIEW

From a trusted name in fire protection comes a new solution for interior finish contractors – introducing the new Hilti Firestop Bottom Track Seal: CFS-BTS. An easier-to-use firestop product for bottom of wall joint firestop needs. This innovative one and done solution helps eliminate the need for messy sealants and the problems that come with them. CFS-BTS is a prefabricated foam, fire resistant solution for up to 2 hours providing industry leading fire, smoke and sound resistance.

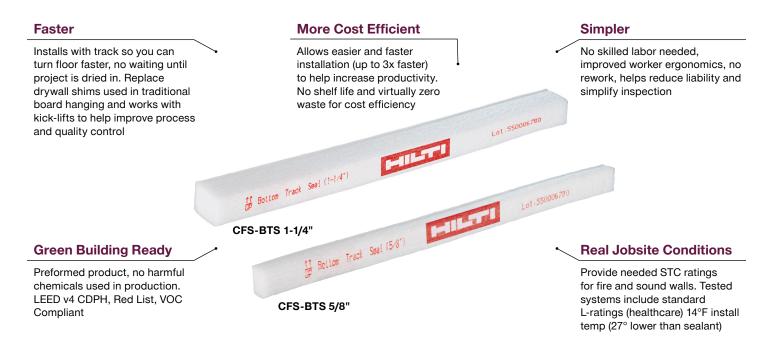
CFS-BTS installs faster with pressure sensitive adhesive strip that is installed against the leg of bottom track. Hilti's new solution helps improve productivity in the firestopping process and also helps provide increases in drywall hanging by allowing the board to sit on top of the product, thus providing install speed. The worry of rework from sealant at the bottom of wall joint is no longer a concern and CFS-BTS will help to prevent drywall damage by removing the drywall shimming process.

CFS-BTS has no shelf life and zero waste, allowing contractors more flexibility with unpredictable construction timelines. Being that CFS-BTS is a preformed product, correct installation can be achieved with less difficulty and without skilled labor. Clear product labeling allows ease of inspection and preformed products may not be subjective to 3rd party destructive testing.

CFS-BTS is compliant with the most stringent LEED green building regulations; providing industry leading low VOC, LEED 4.1 and Red List (LBC) compliant.

CFS-BTS is 1hr and 2hr UL-listed for all three common wall types: standard (3-5/8", 6", 8"), shaft wall and resilient channel walls. Combined with Hilti's firestop Top Track Seal, Hilti's preformed joint solutions truly are the TOTAL WALL SOLUTION!

# CFS-BTS DELIVERS INCREASED PRODUCTIVITY AND BETTER SOLUTION TO THE FIRESTOP BOTTOM OF WALL



#### **Full Portfolio**

Bottom Track Seal completes our extensive portfolio of productivity increasing products for rated and non-rated drywall joints



## **GENERAL INFORMATION**

# TECHNICAL DATA / PRODUCT INFORMATION

#### **Bottom Track Seal CFS-BTS**

#### **Product description**

Preformed firestop solution for bottom-of-wall drywall joints — helps increase
productivity on the job site and eliminate the need for slower, messier sealants

# 1 Section Treel Seel (54")

#### Applications for use

- Firestop, smoke, and sound seal for the bottom of the wall joints between bottom track and drywall to flat and metal deck concrete slabs
- Tested and UL classified with standard 1-hour and 2-hour partition walls, resilient channel walls and shaft walls (5/8" and 1-1/4" available)

#### **Advantages**

- Easier to install under real job site conditions compressible firestop joint seal suitable for installation in temperatures as low as 14°F (-10°C)
- Higher productivity the preformed firestop replaces 5/8" drywall shims and works with kick-lifts to help save time and improve quality control of drywall install
- Zero waste controlled material cost / easier to bid
- Sound and Leakage-rated joint seal CFS-BTS firestop can provide STC ratings for fire/sound walls, and has been tested in accordance with L-rating compliance in smoke barrier walls (IBC)
- Compliance with LEED green building regulations provides industry-leading low VOC, LEED 4.1, and Red List (LBC) compliance
- No skilled labor required and may not be subjective to destructive testing

#### Installation instructions

See Hilti literature or third-party listings for application and installation details

			Lot. 550006780
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	Bottom Track Seal (!-1/4")		
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#### **Order Information**

Designation	Sales pack quantity	Item number
Bottom track seal CFS-BTS (5/8") ①	70	2331840
Bottom track seal CFS-BTS (1-1/4") ②	70	2331841



FILL, VOID OR CAVITY MATERIAL FOR USE IN JOINT SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY

Chemical basis	XLPE foam	
Color	White / Red	
Recommended Application temperature	14° to 122°F (-10° to 50°C)	
Storage and transportation temperature range	14° to 122°F (-10° to 50°C)	
Temperature resistance range	14° to 122°F (-10° to 50°C)	
Surface burning characteristics (ASTM E84-96)	Flame Spread: 0 Smoke Development: 0	
Surface burning characteristics (CAN/ULC-S102)	Flame Spread: 0 Smoke Development: 5	
Mold and mildew performance	Class 0 (ASTM G21-96)	
Tested In accordance with	UL 2079 (5th Edition), CAN/ULC S115, ASTM D3575 Suffix L (modified)	
LEEDv4.1	CDPH Standard Method v1.2-2017 Compliant	
LEED VOC	1 g/L	
Length	72 in (6ft)	
Acoustics performance	63 (relates to specific construction) ASTM E90	
Shelf Life	Unlimited	
Joint Width	1/4" - 3/4"	

Hilti Firestop Saving lives through innovation and education



## **GENERAL INFORMATION**

## INSTRUCTION FOR USE



CFS-BTS

2333726-04.2023







- en Before handling and for specific application details, refer to Hilti product literature, 3rd party published listings and national approvals. For professional use only.
- **fr** Avant toute utilisation et pour tout détail concernant une application, se référer à la documentation Hilti, à la liste de publications des tierces parties et aux approbations nationales. Seulement pour utilisateurs professionnels.
- es Antes de usar y para detalles específicos de aplicación, véase la información que acompaña al producto Hilti, el listado publicado por terceros y las aprobaciones nacionales. Solamente para los usuarios profesionales.



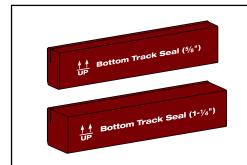


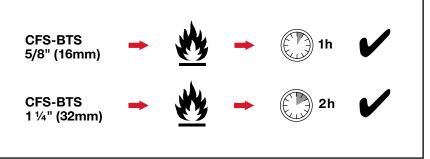


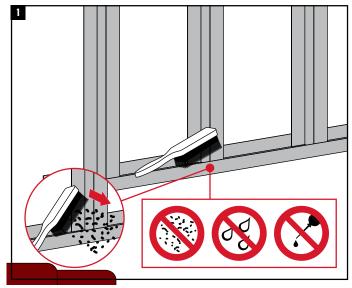


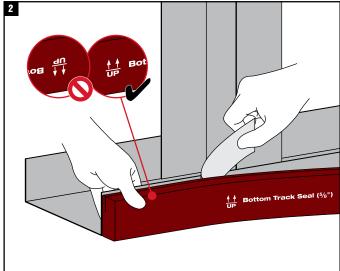












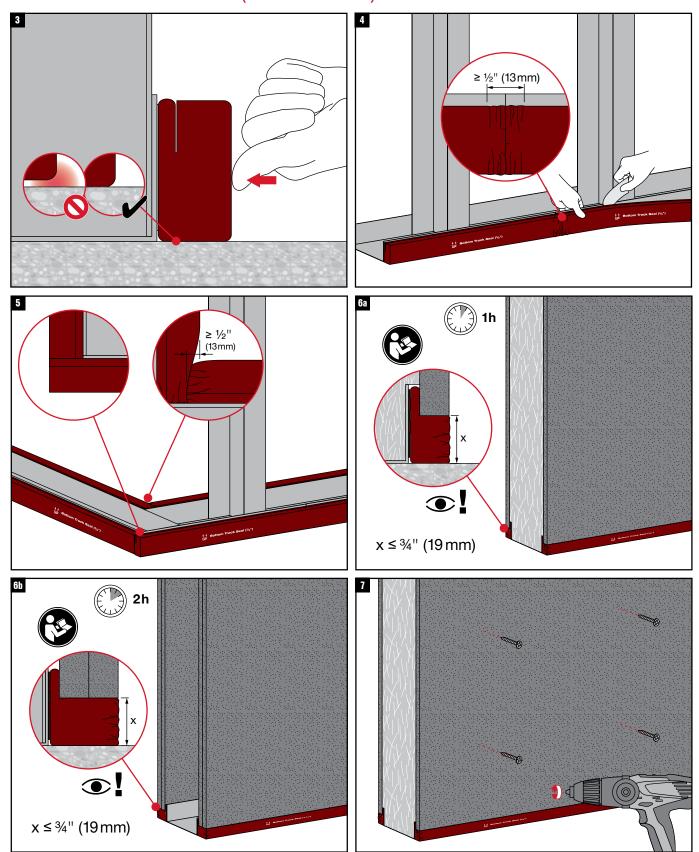
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# **GENERAL INFORMATION**

# INSTRUCTION FOR USE (CONTINUED)



For proper installation of CFS-BTS Bottom Track Seal, joint width of 3/4" max MUST be achieved per UL/cUL listing.

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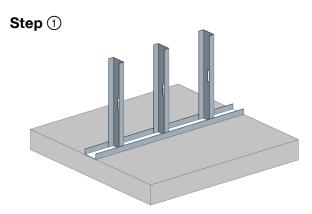




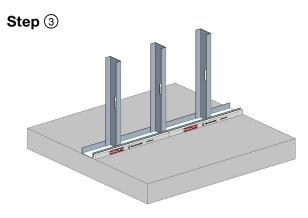


## 1.0 STANDARD WALL

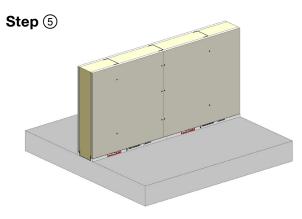
#### 1.1 Standard 1hr wall



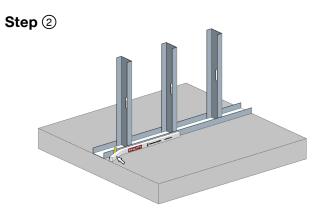
Construct wall assembly according to the instructions given in UL/cUL listing.



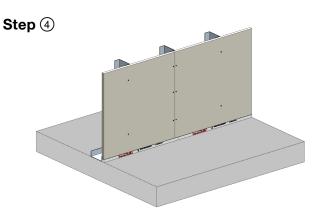
Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams.



Repeat steps 2 - 4 on the opposite side of the wall.



Place the CFS-BTS 5/8" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

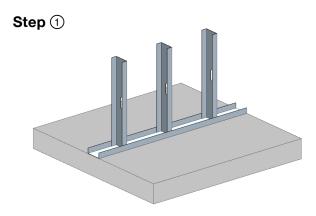


Place the drywall on top of CFS-BTS and install according to appropriate UL/cUL listing. Ensure to check joint width of **3/4" max**.

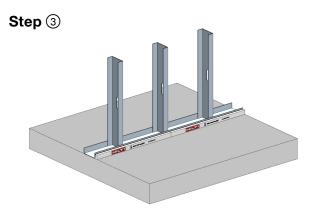


## 1.0 STANDARD WALL

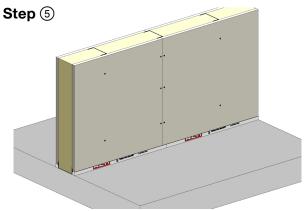
#### 1.2 Standard 2hr wall



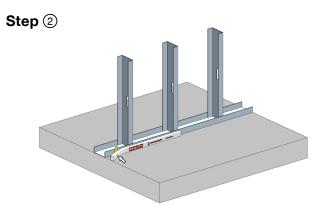
Construct wall assembly according to the instructions given in UL/cUL listing.



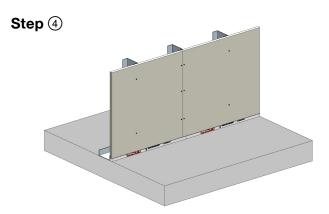
Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams.



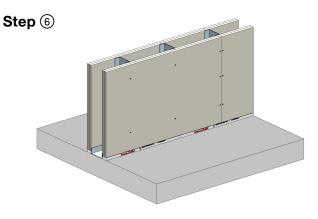
Install drywall layer 2. Ensure to check joint width of 3/4" max.



Place the CFS-BTS 1-1/4" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.



Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.



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Repeat steps 2 - 5 on the opposite side of the wall.

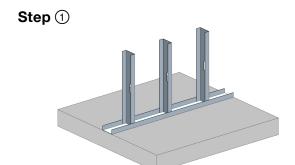
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## 2.0 RESILIENT CHANNEL WALL

#### 2.1 1hr Resilient channel wall

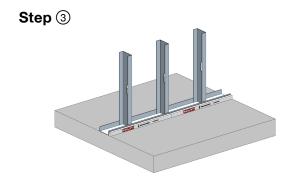
Use 1-1/4" product for RC side.



Step 2

Construct wall assembly according to appropriate UL/cUL listing.

Place the CFS-BTS 1-1/4" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

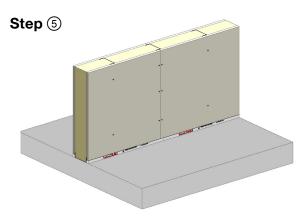


Step ④

Install remaining CFS-BTS 1-1/4" along the track. Ensure **minimum** 1/2" compression at all butt seams.

Place the drywall on top of CFS-BTS and install according to appropriate UL/cUL listing. Ensure to check joint width of **3/4" max**.

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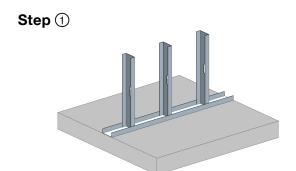
Install opposite side of wall in accordance with 1hr standard wall configuration.

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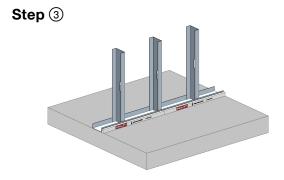


## 2.0 RESILIENT CHANNEL WALL

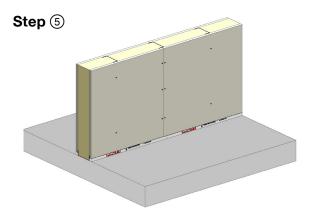
#### 2.2 2hr Resilient channel wall



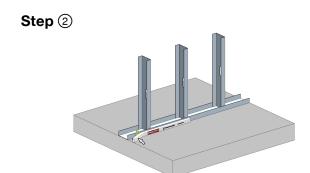
Construct wall assembly according to appropriate UL/cUL listing.



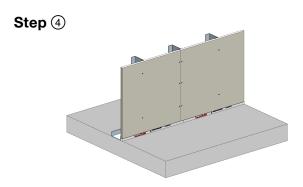
Install remaining CFS-BTS 5/8" along the track. Ensure **minimum** 1/2" compression at all butt seams.



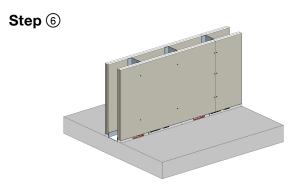
Install remaining CFS-BTS 1-1/4" along the installed CFS-BTS 5/8". Ensure **minimum 1/2" compression** at all butt seams.



Place the CFS-BTS 5/8" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.



Place the CFS-BTS 1-1/4" with the correct side up to the concrete surface and against the installed assembly. Peel back silicone paper liner and stick to the installed CFS-BTS 5/8".

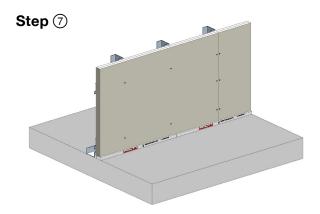


Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

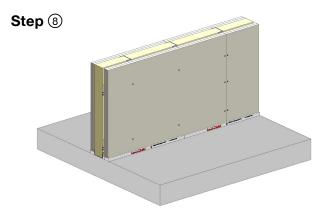


# 2.0 RESILIENT CHANNEL WALL

# 2.2 2hr Resilient channel wall (continued)



Install drywall layer 2. Ensure to check joint width of 3/4" max.



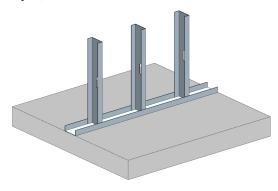
Install opposite side of wall in accordance with the listed system.



## 3.0 SHAFT WALL

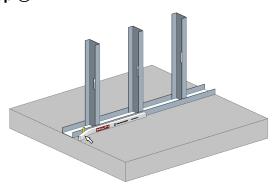
#### 3.1 2hr Shaft wall

#### Step ①



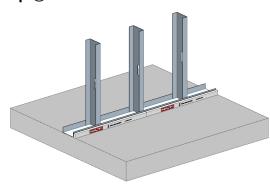
Construct wall assembly according to appropriate UL/cUL listing.

## Step 2



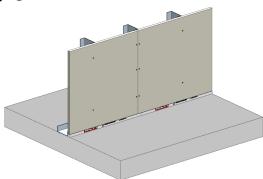
Place the CFS-BTS 1-1/4" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of the bottom track.

## Step ③

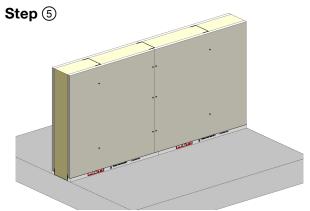


Install remaining CFS-BTS 1-1/4" along the track. Ensure **minimum** 1/2" compression at all butt seams.

## Step 4



Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

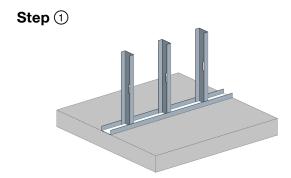


Install drywall layer 2. Ensure to check joint width of 3/4" max.

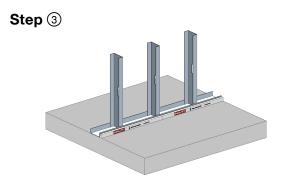


## 4.0 CORNER CONDITION

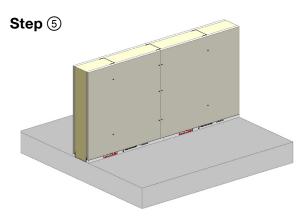
#### 4.1 Inner corner



Construct wall assembly according to appropriate UL/cUL listing.

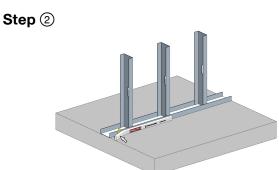


Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams and corner intersections.

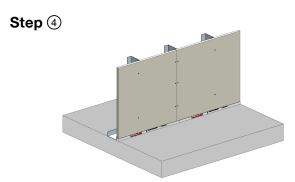


Install drywall layer 2. Ensure to check joint width of 3/4" max.

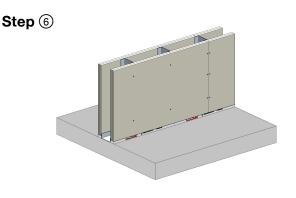




Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.



Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

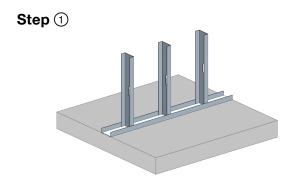


Repeat steps 2 - 5 on the opposite side of the wall.

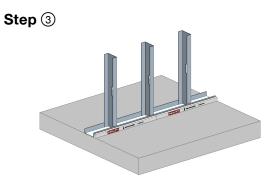


## 4.0 CORNER CONDITION

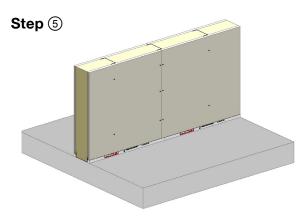
#### 4.2 Outer corner



Construct wall assembly according to appropriate UL/cUL listing.

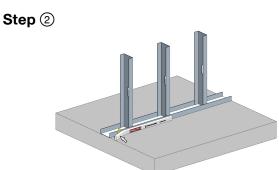


Install remaining product along the track. No compression required at outer corner condition.

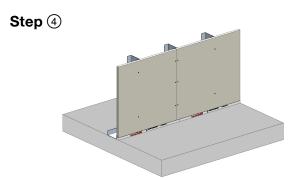


Install drywall layer 2. Ensure to check joint width of 3/4" max.

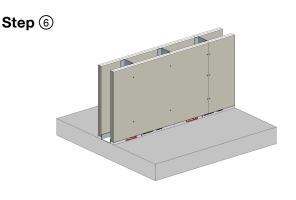




Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.



Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

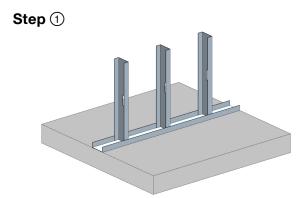


Repeat steps 2 - 5 on the opposite side of the wall.

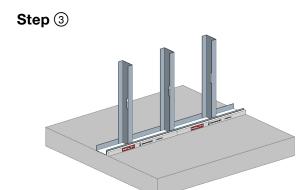


## 5.0 NON-CONTINUOUS TRACK

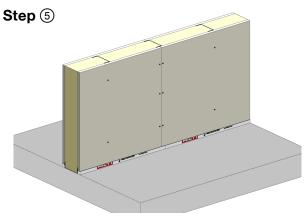
## 5.1 2hr Gap in track



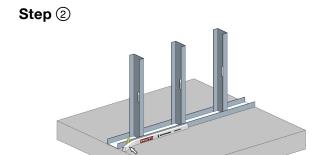
Identify non-continuous portion of the track.



Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

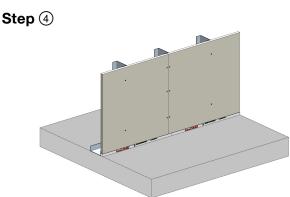


Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

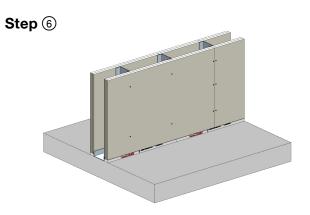


Install galvanized steel strip\* across track gap and butt it tight to the concrete. Fasten the strip securely with sheet metal screw. See Fire Protection Design Team team for further details in an EJ.

(\*Strip requirements: min 25GA. 1-1/4" width/height, overlapping 1" on both sides)



Install remaining product along the track. Ensure **minimum 1/2"** compression at all butt seams.

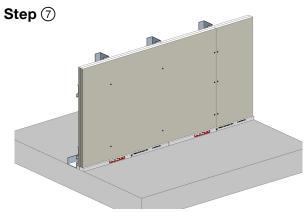


Install drywall layer 2. Ensure to check joint width of 3/4" max.



# 5.0 NON-CONTINUOUS TRACK

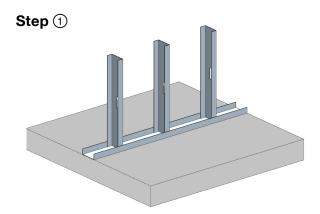
# 5.1 2hr Gap in track (continued)



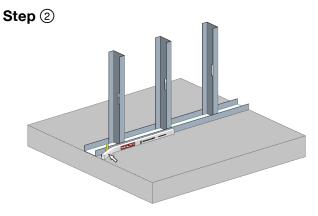
Repeat steps 2 – 6 on the opposite side of the wall.



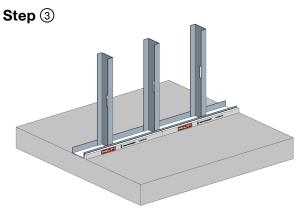
# 6.0 DAMAGED TRACK



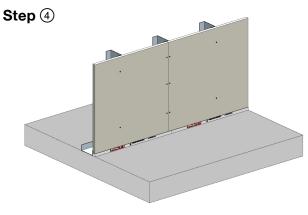
Identify damaged portion of the track.



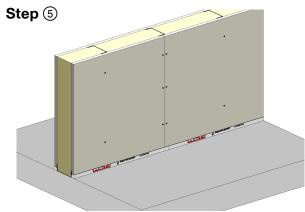
Repair track to original flange height. If unable to meet, refer back to 'non-continuous track'



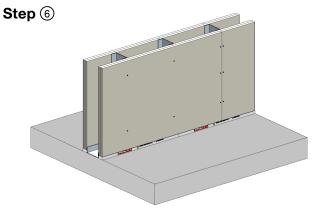
Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of the bottom track.



Install remaining product along the track. Ensure **minimum 1/2"** compression at all butt seams.



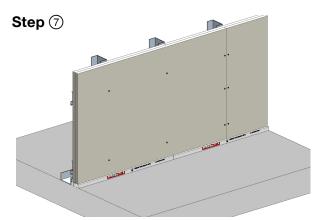
Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.



Install drywall layer 2. Ensure to check joint width of 3/4" max.



# 6.0 DAMAGED TRACK (CONTINUED)

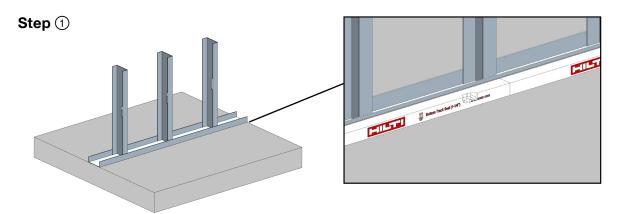


Repeat steps 3 – 6 on the opposite side of the wall.

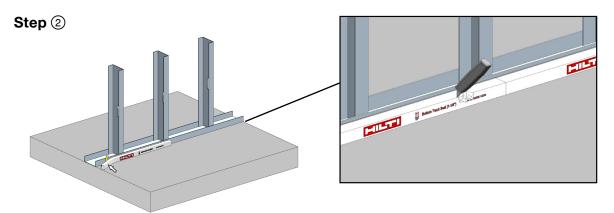


# 7.0 DAMAGED BTS (VOID)

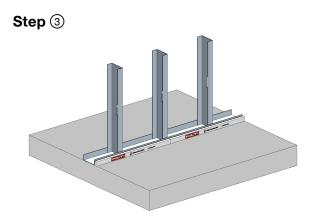
## 7.1 Pre-drywall install



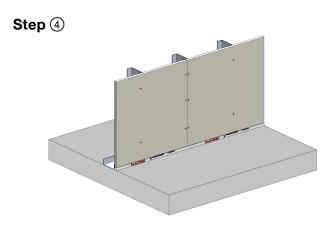
Identify damaged CFS-BTS product.



Cut out damage portion of the CFS-BTS product. Maximum allowable length of cutout is 6 inches



Measure opening length between the CFS-BTS products. Cut a new CFS-BTS piece measuring 1" longer than the opening.

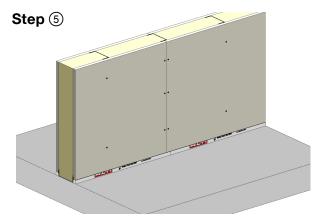


Insert and install the new piece of CFS-BTS into the opening by removing the silicone paper liner and ensure **minimum 1/2" compression** on both sides.

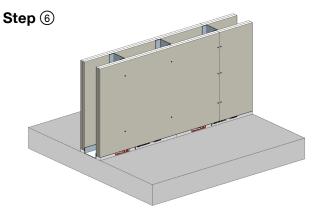


# 7.0 DAMAGED BTS (VOID)

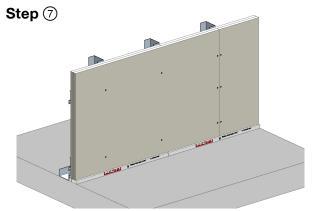
# 7.1 Pre-drywall install (continued)



Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.



Install drywall layer 2. Ensure to check joint width of 3/4" max.

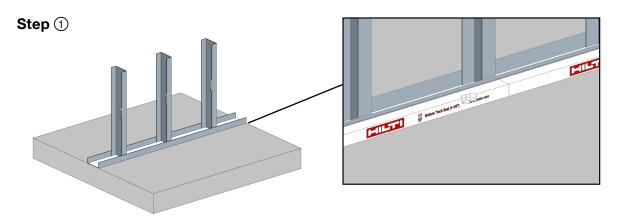


Repeat steps 5 - 6 on the opposite side of the wall.

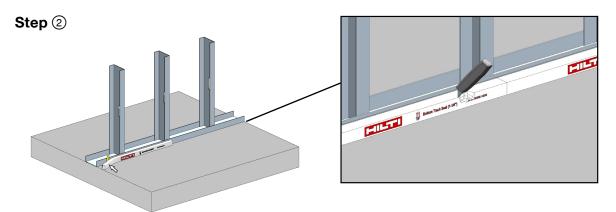


# 7.0 DAMAGED BTS (VOID)

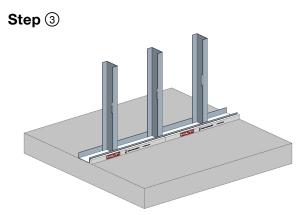
## 7.2 Post-drywall install



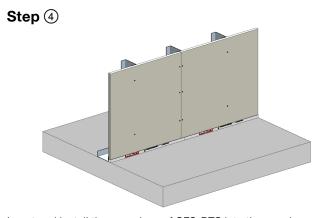
Identify damaged CFS-BTS product.



Cut out damaged portion of the CFS-BTS product.



Measure the opening length between the CFS-BTS products. Cut a new CFS-BTS piece measuring 1" longer than the opening.

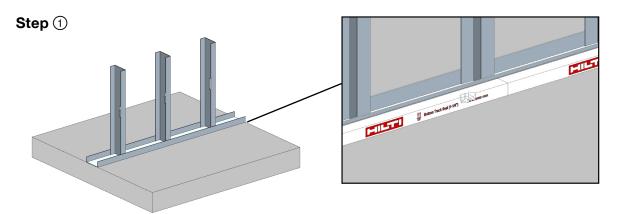


Insert and install the new piece of CFS-BTS into the opening without removing the silicone paper liner and ensure minimum 1/2" compression on both sides.

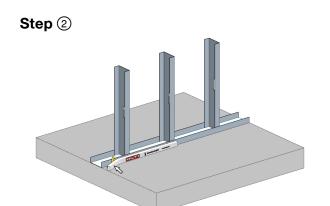


# 7.0 DAMAGED BTS (VOID)

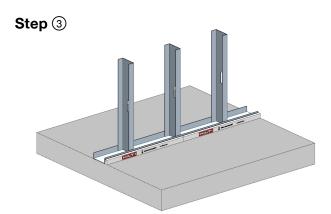
## 7.3 Repair with sealant



Identify damaged CFS-BTS product.



Clean the surface area and apply CP 606 or FS-ONE MAX firestop sealant to the opening. Ensure installing to a depth of 5/8". Perform tooling if necessary.



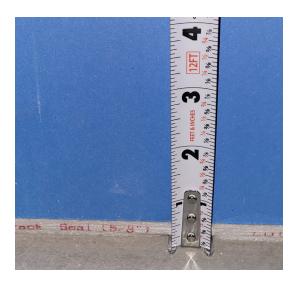
Finished installation.



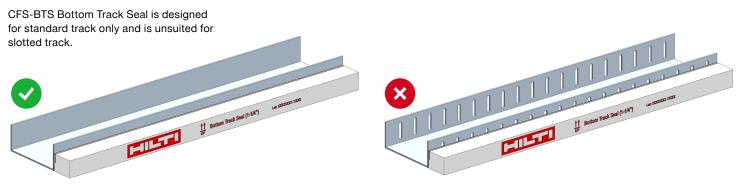
## 8.0 PROPER PROCEDURE FOR CFS-BTS

#### 8.1 Listing Requirement

For proper installation of CFS-BTS Bottom Track Seal, joint width of **3/4" max** MUST be achieved per UL/cUL listing.

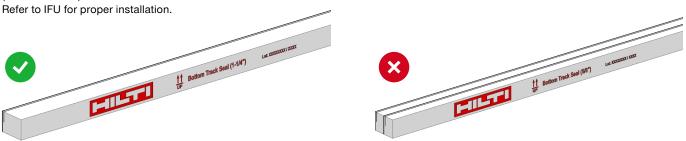


#### 8.2 Slotted track



## 8.3 Combining BTS (i.e. 2x 1hr - 2hr)

Binding and installing two products of CFS-BTS Bottom Track Seal is inappropriate usage to increase hourly rating for standard walls. (i.e 2 x 1hr - 2hr)

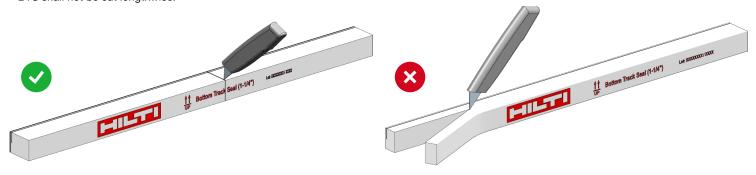




## 8.0 PROPER PROCEDURE FOR CFS-BTS

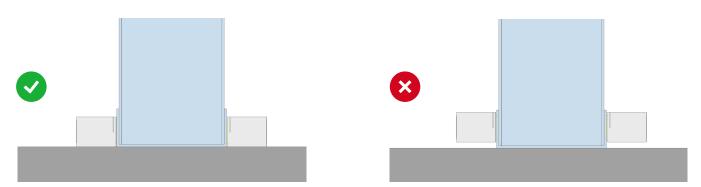
### 8.4 Cutting BTS

CFS-BTS Bottom Track Seal is easier to cut and to be cut crosswise only. BTS shall not be cut lengthwise.



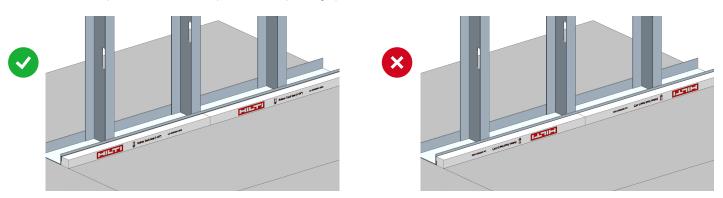
## 8.5 Have gap between concrete and bottom of BTS

CFS-BTS Bottom Track Seal is designed to be installed flat to the concrete surface. When installing, check to ensure no gap between concrete and bottom of CFS-BTS Bottom Track Seal.



#### 8.6 Install upside down

CFS-BTS Bottom Track Seal has logo design that is easier to identify for correct orientation of the product. Place and install the product correct side up with arrows pointing up.



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