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

Faster

Installs with track so you can turn floor faster, no waiting until project is dried in. Replace drywall shims used in traditional board hanging and works with kick-lifts to help improve process and quality control

More Cost Efficient

Allows easier and faster installation (up to 3x faster) to help increase productivity. No shelf life and virtually zero waste for cost efficiency

Simpler

No skilled labor needed, improved worker ergonomics, no rework, helps reduce liability and simplify inspection

CFS-BTS 1-1/4"

CFS-BTS 5/8"

Green Building Ready

Preformed product, no harmful chemicals used in production. LEED v4 CDPH, Red List, VOC Compliant

Real Jobsite Conditions

Provide needed STC ratings for fire and sound walls. Tested systems include standard L-ratings (healthcare) 14°F install temp (27° lower than sealant)

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

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

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Technical Data

Chemical basis	XLPE foam
Color	White / Red
Recommended Applicatlon temperature	14° to 122°F (-10° to 50°C)
Storage and transportatlon 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”

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

UL CERTIFIED SAFETY US/CA R13240

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

Hilti Firestop
Saving lives
through innovation
and education

GENERAL INFORMATION

INSTRUCTION FOR USE

CFS-BTS

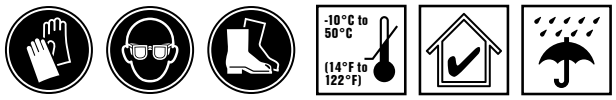
2333726-04.2023

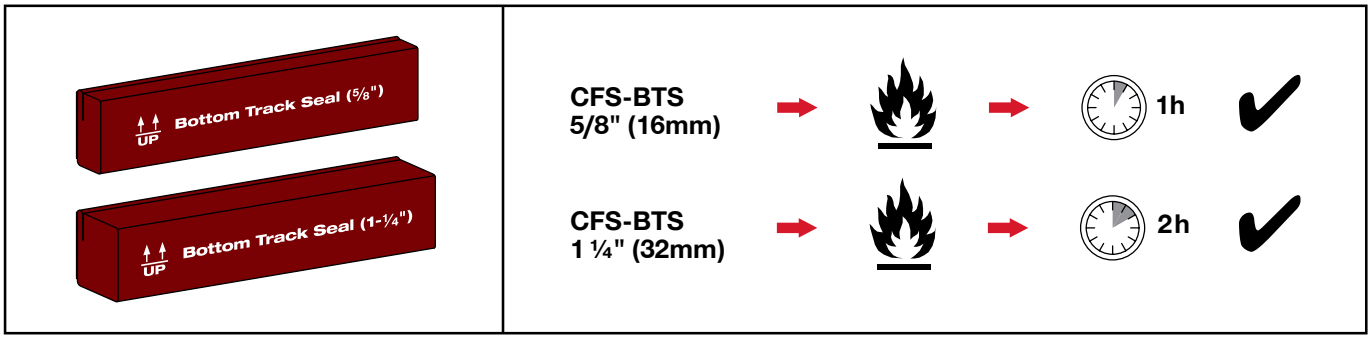
www.hilti.com
www.hilti.ca
www.hilti.group

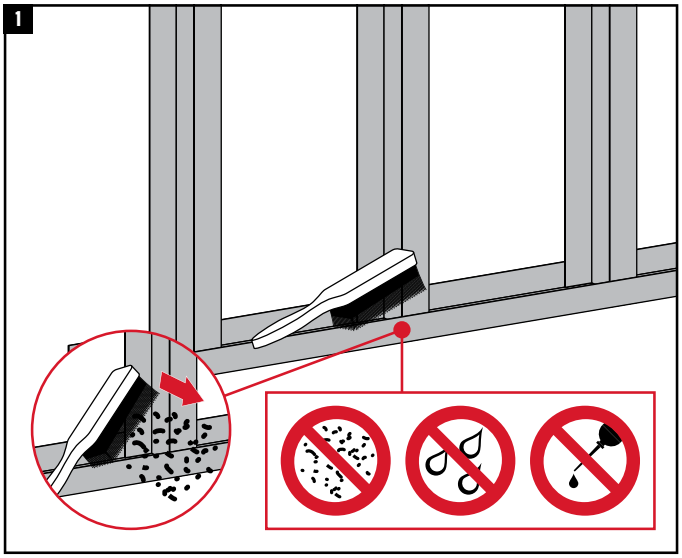
en Before handling and for specific application details, refer to Hilti product literature, 3rd party published listings and national approvals. For professional use only.

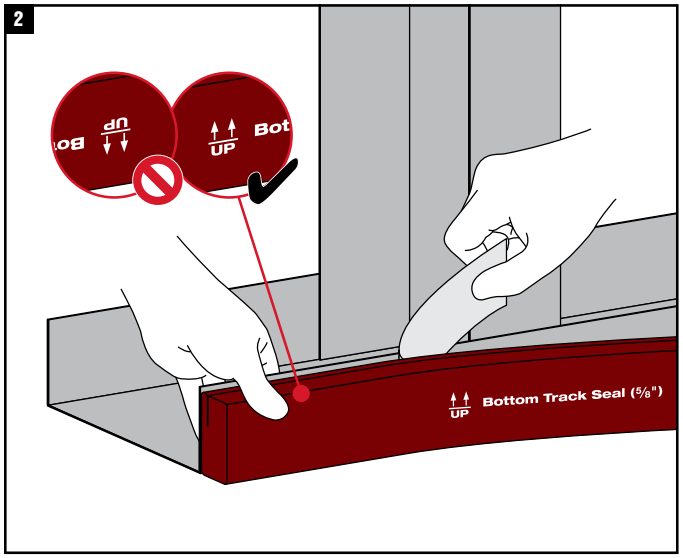
fr Avant toute utilisation et pour tout détail concernant une application, se référer à la documentation Hilti, à la liste de publications des tierces parties et aux approbations nationales. Seulement pour utilisateurs professionnels.

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.



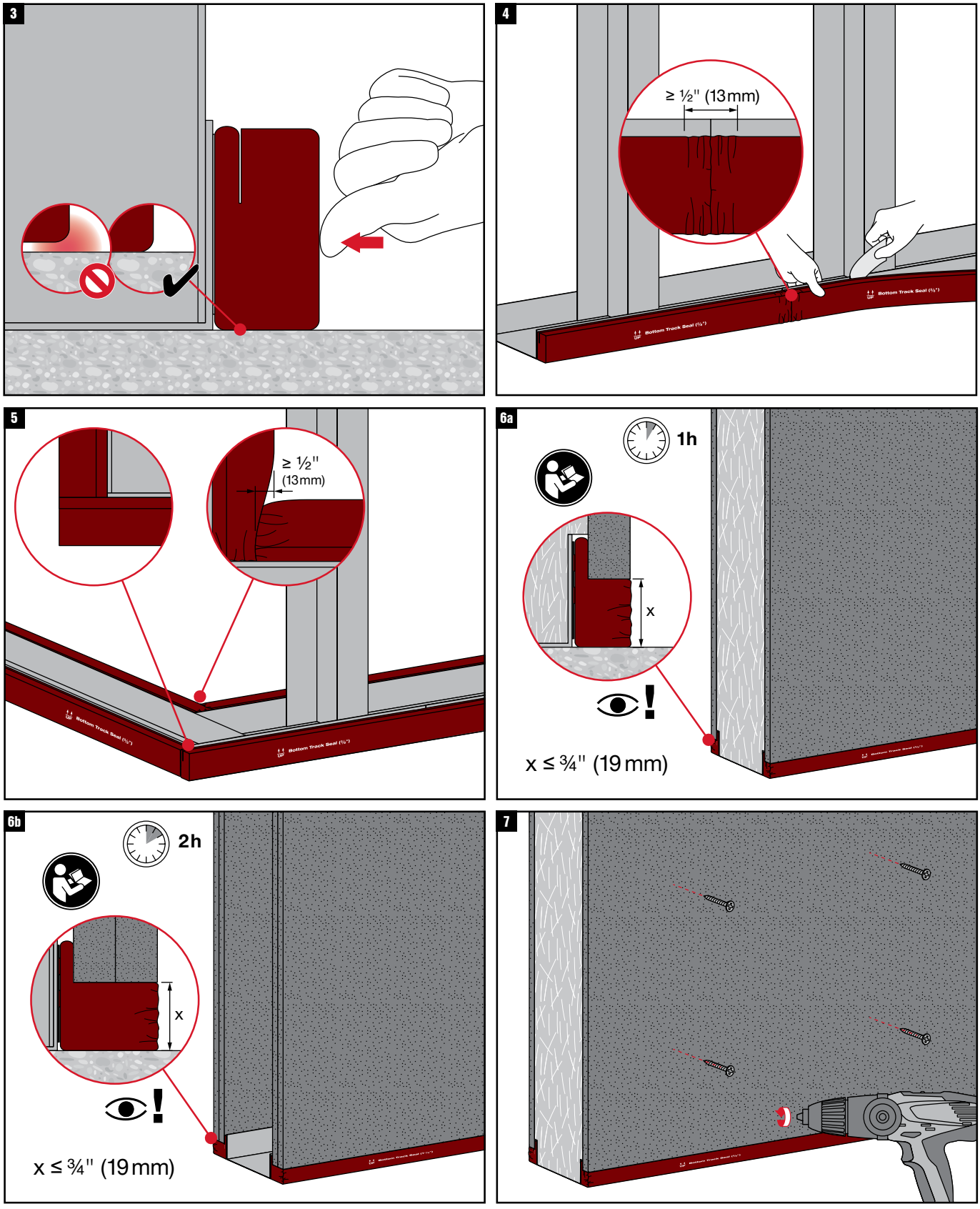






GENERAL INFORMATION

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.

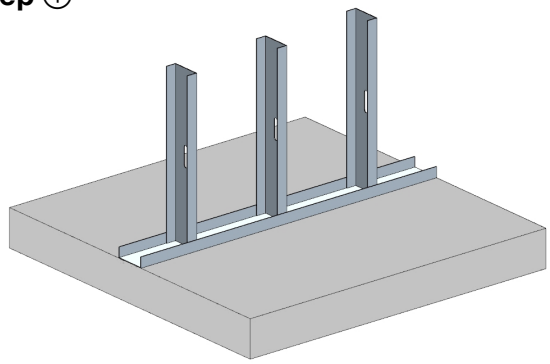
INSTALLATION GUIDE

INSTALLATION GUIDE

1.0 STANDARD WALL

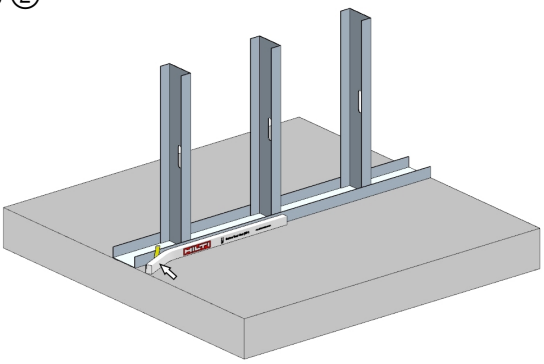
1.1 Standard 1hr wall

Step ①



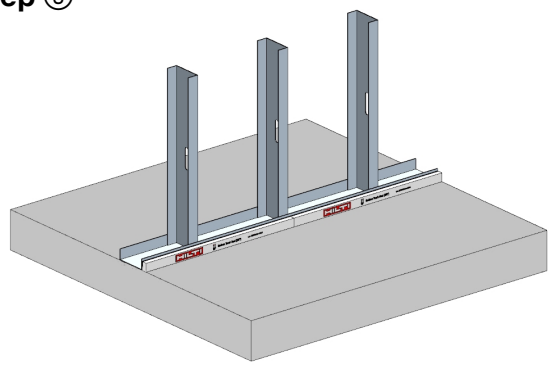
Construct wall assembly according to the instructions given in UL/cUL listing.

Step ②



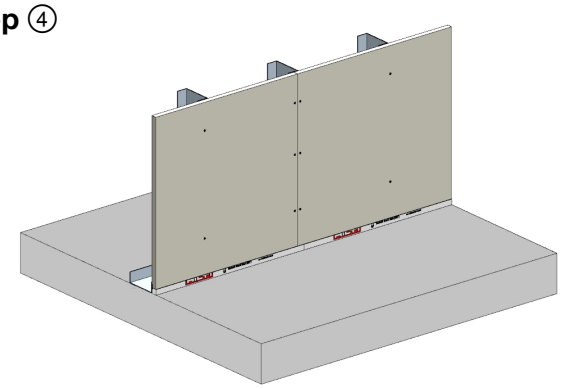
Place the CFS-BTS 5/8" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

Step ③



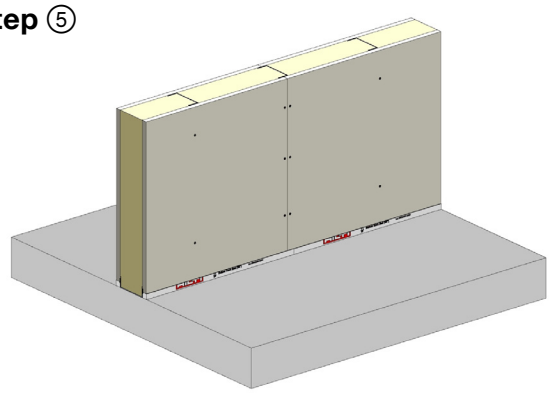
Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams.

Step ④



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**.

Step ⑤



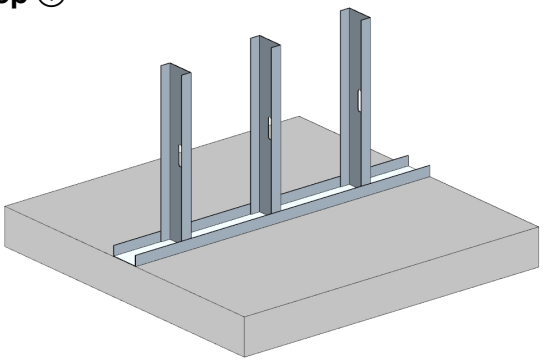
Repeat steps 2 – 4 on the opposite side of the wall.

INSTALLATION GUIDE

1.0 STANDARD WALL

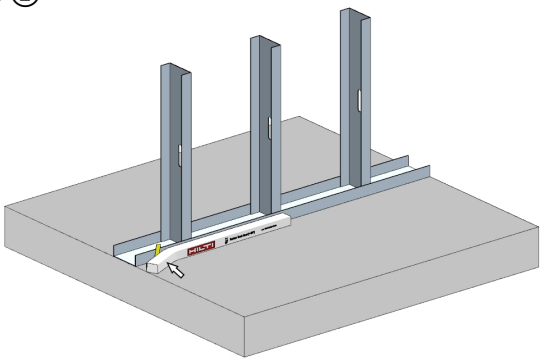
1.2 Standard 2hr wall

Step ①



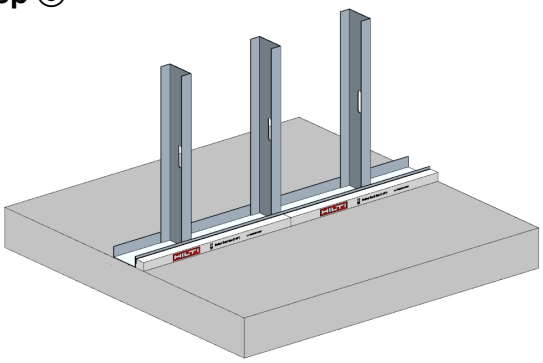
Construct wall assembly according to the instructions given in UL/cUL listing.

Step ②



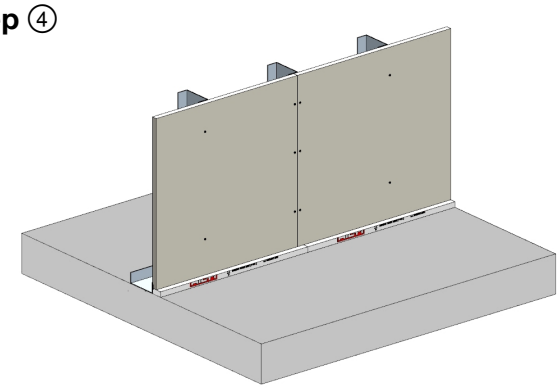
Place the CFS-BTS 1-1/4" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

Step ③



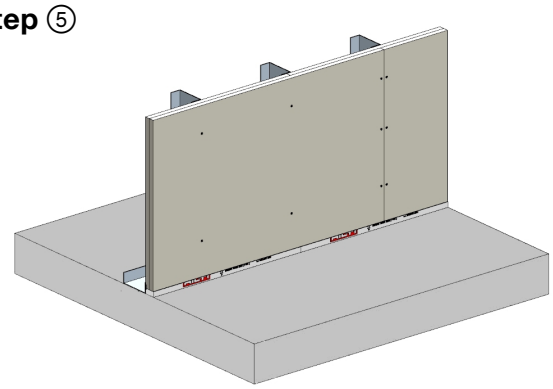
Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams.

Step ④



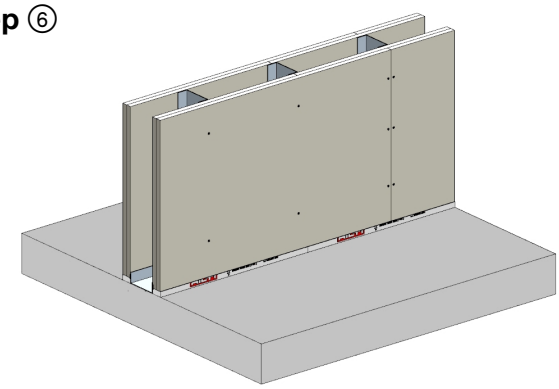
Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

Step ⑤



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

Step ⑥



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

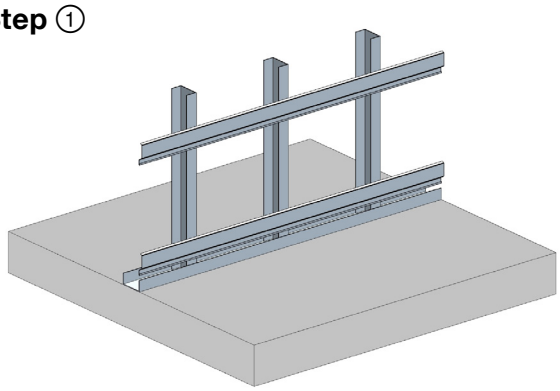
INSTALLATION GUIDE

2.0 RESILIENT CHANNEL WALL

2.1 1hr Resilient channel wall

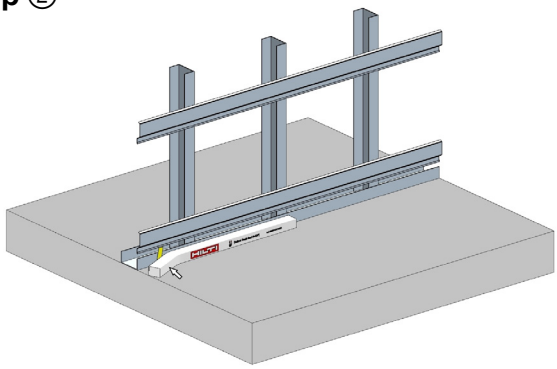
Use 1-1/4" product for RC side.

Step ①



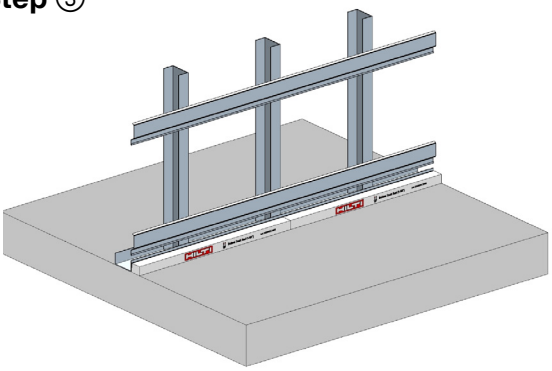
Construct wall assembly according to appropriate UL/cUL listing.

Step ②



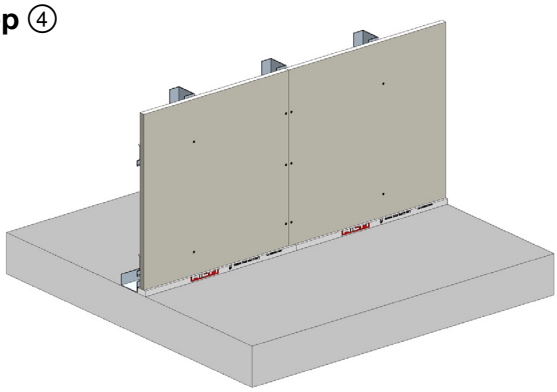
Place the CFS-BTS 1-1/4" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

Step ③



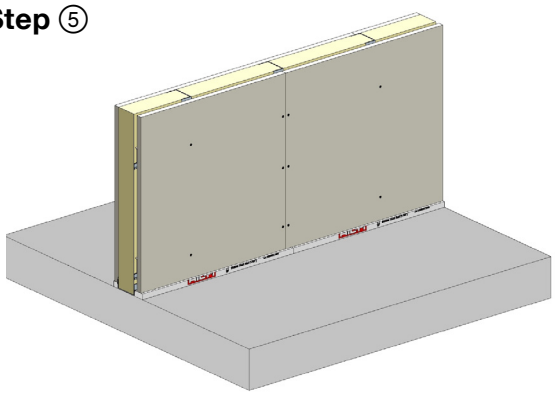
Install remaining CFS-BTS 1-1/4" along the track. Ensure **minimum 1/2" compression** at all butt seams.

Step ④



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

Step ⑤



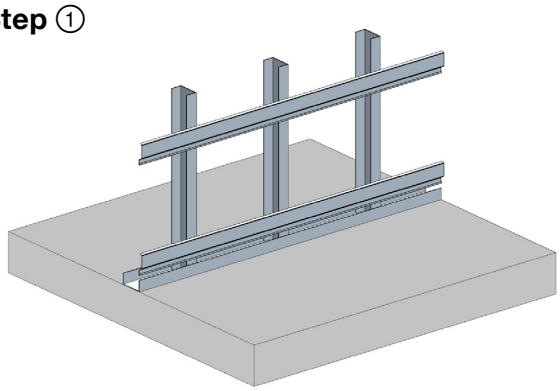
Install opposite side of wall in accordance with 1hr standard wall configuration.

INSTALLATION GUIDE

2.0 RESILIENT CHANNEL WALL

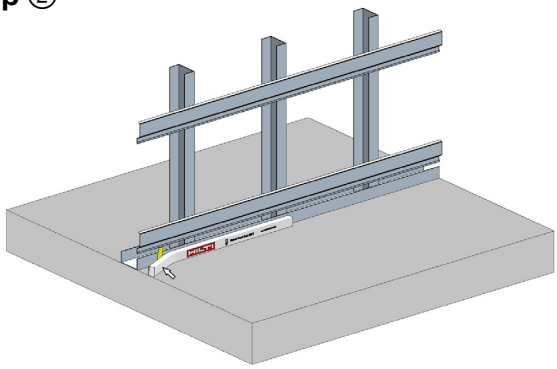
2.2 2hr Resilient channel wall

Step ①



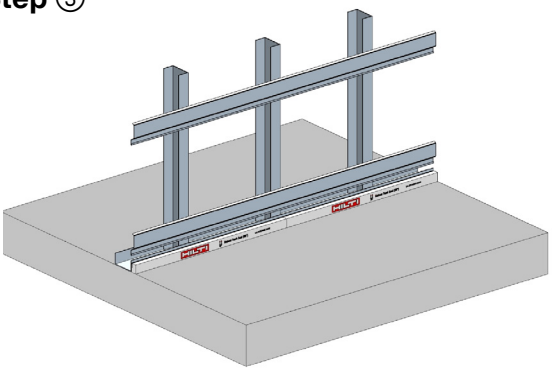
Construct wall assembly according to appropriate UL/cUL listing.

Step ②



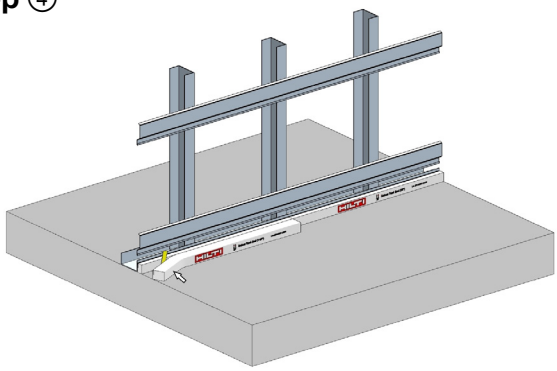
Place the CFS-BTS 5/8" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

Step ③



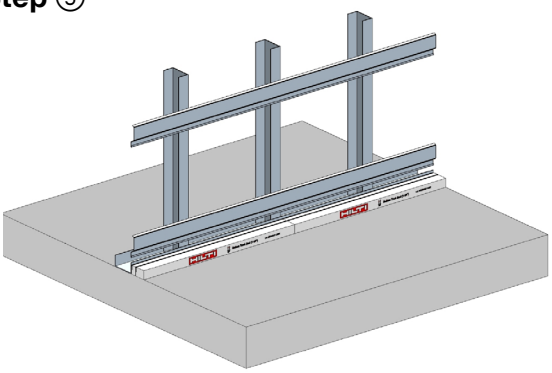
Install remaining CFS-BTS 5/8" along the track. Ensure **minimum 1/2" compression** at all butt seams.

Step ④



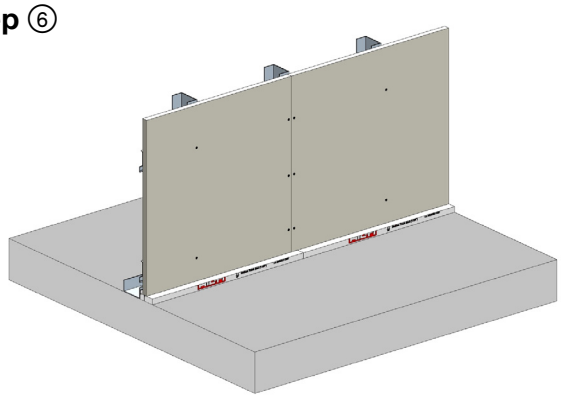
Place the CFS-BTS 1-1/4" with the correct side up to the concrete surface and against the installed assembly. Peel back silicone paper liner and stick to the installed CFS-BTS 5/8".

Step ⑤



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

Step ⑥



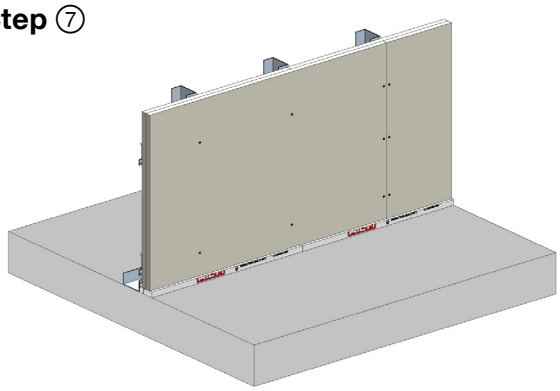
Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

INSTALLATION GUIDE

2.0 RESILIENT CHANNEL WALL

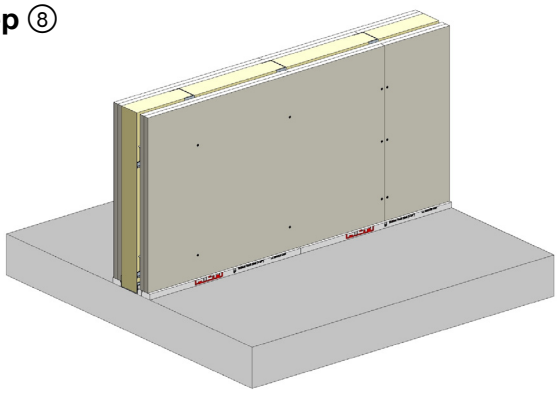
2.2 2hr Resilient channel wall (continued)

Step ⑦



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

Step ⑧



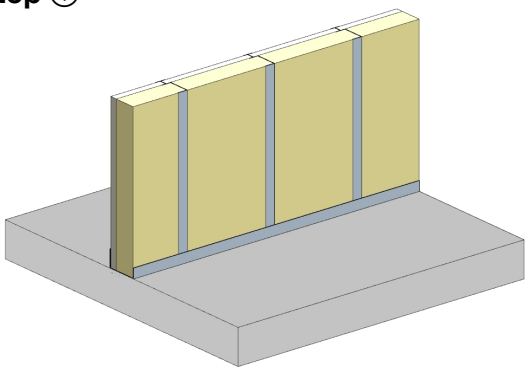
Install opposite side of wall in accordance with the listed system.

INSTALLATION GUIDE

3.0 SHAFT WALL

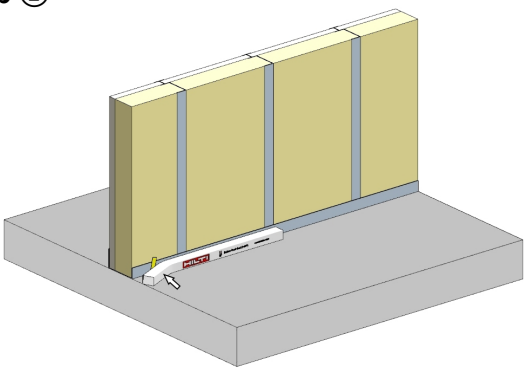
3.1 2hr Shaft wall

Step ①



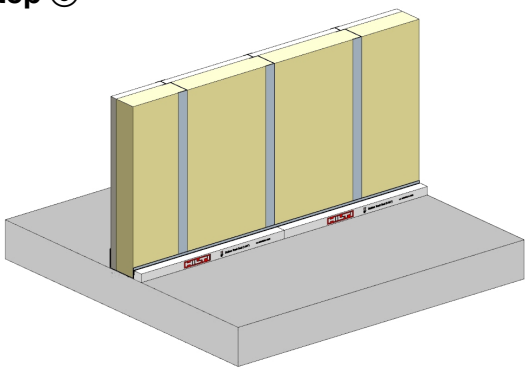
Construct wall assembly according to appropriate UL/cUL listing.

Step ②



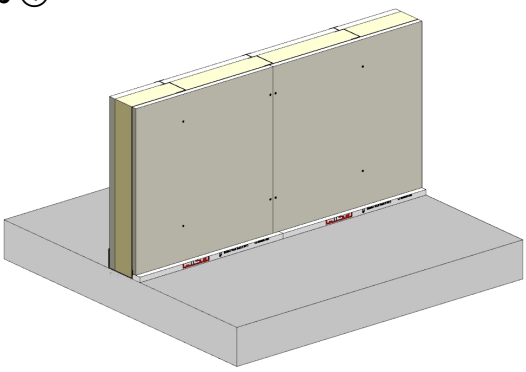
Place the CFS-BTS 1-1/4" with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of the bottom track.

Step ③



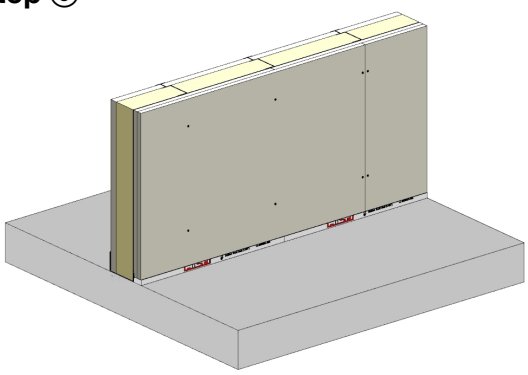
Install remaining CFS-BTS 1-1/4" along the track. Ensure **minimum 1/2" compression** at all butt seams.

Step ④



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

Step ⑤



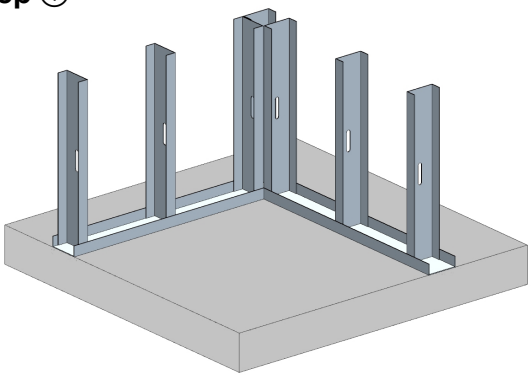
Install drywall layer 2. Ensure to check joint width of **3/4" max**.

INSTALLATION GUIDE

4.0 CORNER CONDITION

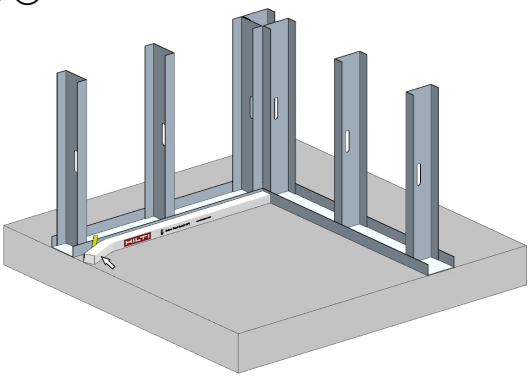
4.1 Inner corner

Step ①



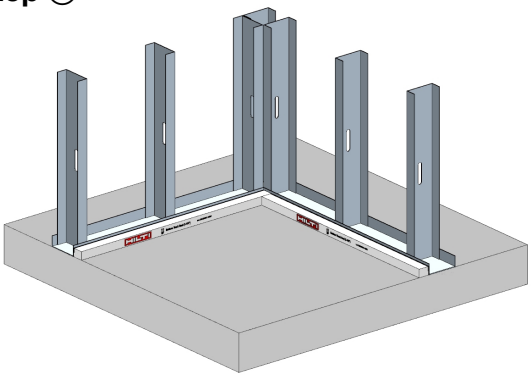
Construct wall assembly according to appropriate UL/cUL listing.

Step ②



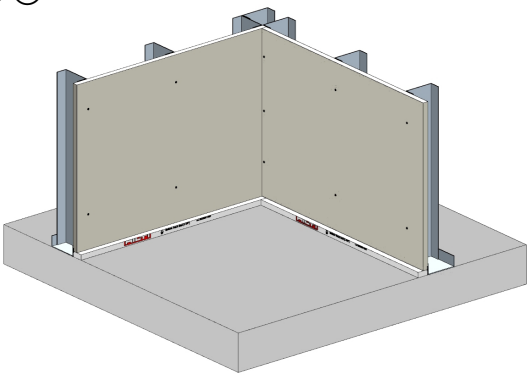
Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

Step ③



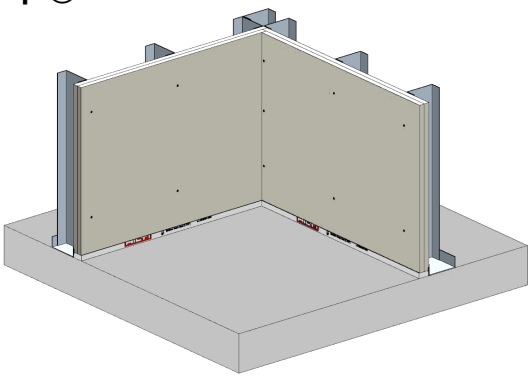
Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams and corner intersections.

Step ④



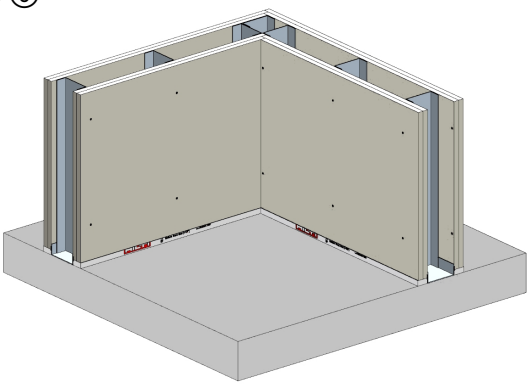
Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

Step ⑤



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

Step ⑥



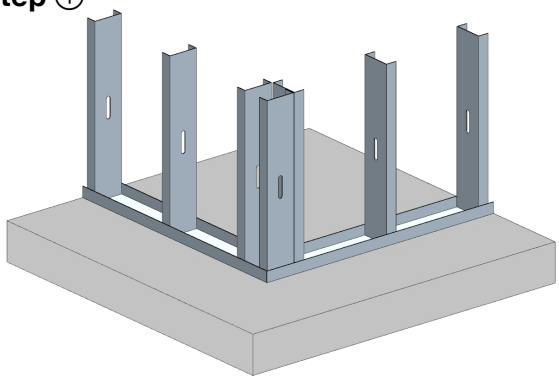
Repeat steps 2 – 5 on the opposite side of the wall.

INSTALLATION GUIDE

4.0 CORNER CONDITION

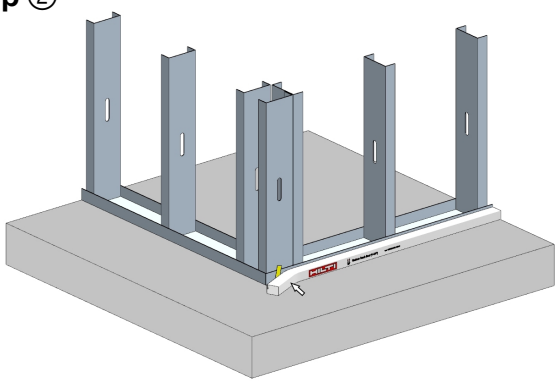
4.2 Outer corner

Step ①



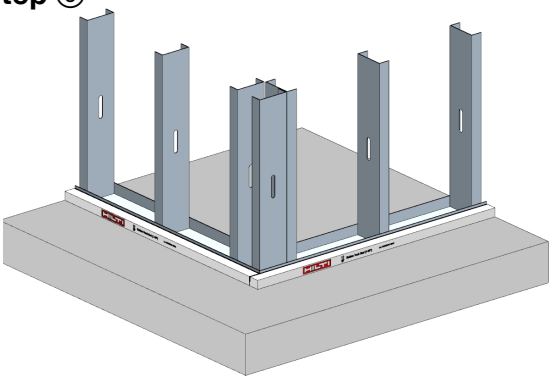
Construct wall assembly according to appropriate UL/cUL listing.

Step ②



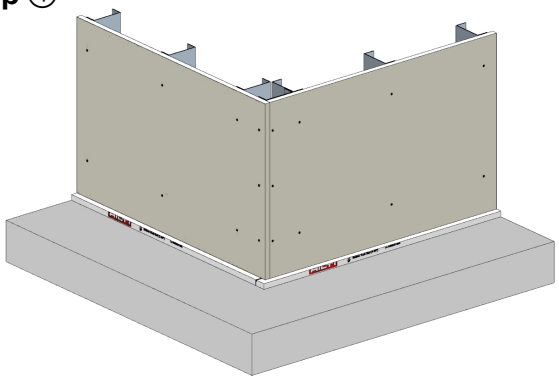
Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

Step ③



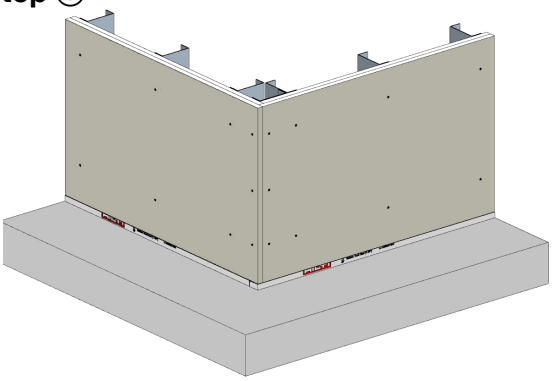
Install remaining product along the track. No compression required at outer corner condition.

Step ④



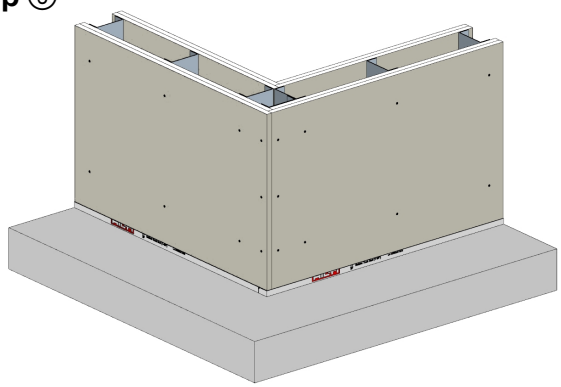
Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

Step ⑤



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

Step ⑥



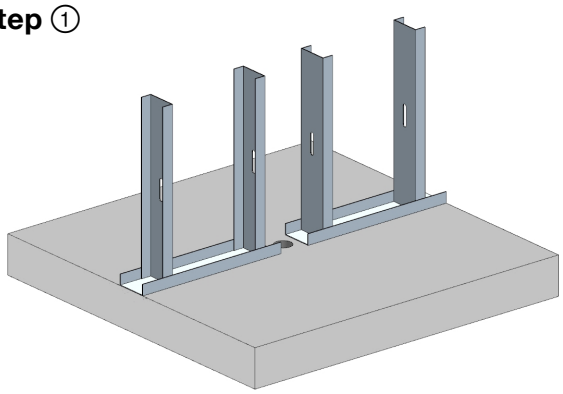
Repeat steps 2 – 5 on the opposite side of the wall.

INSTALLATION GUIDE

5.0 NON-CONTINUOUS TRACK

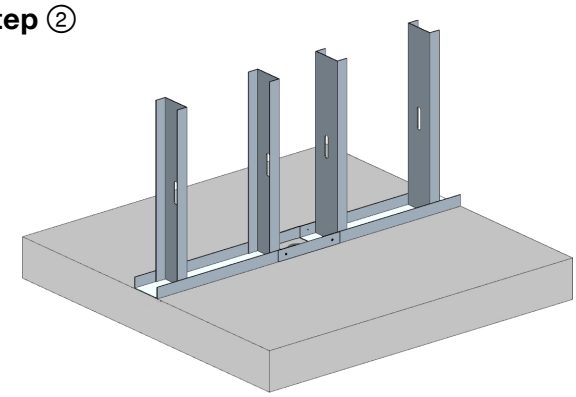
5.1 2hr Gap in track

Step ①



Identify non-continuous portion of the track.

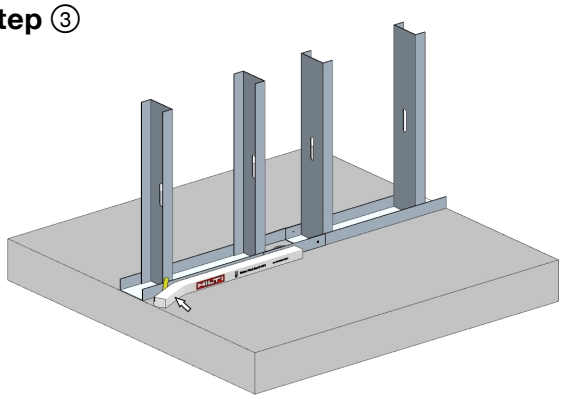
Step ②



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.

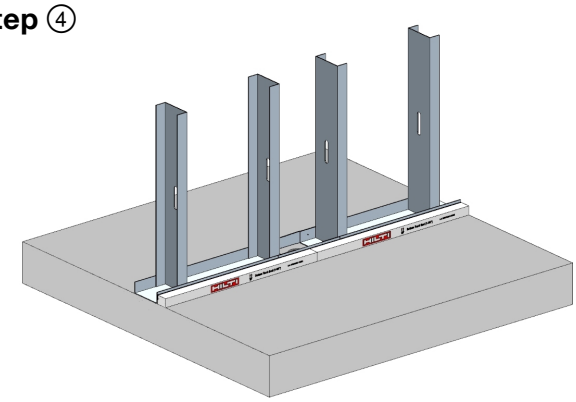
(*Strip requirements: min 25GA. 1-1/4" width/height, overlapping 1" on both sides)

Step ③



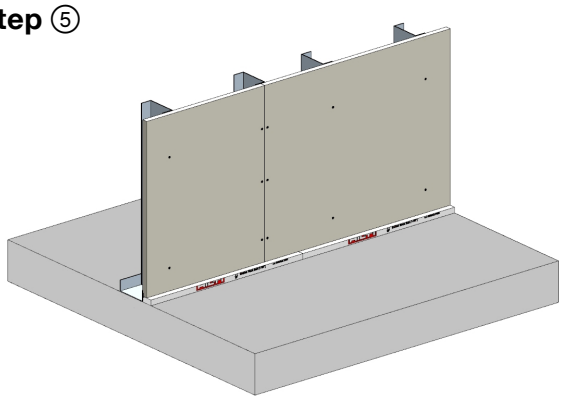
Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of bottom track.

Step ④



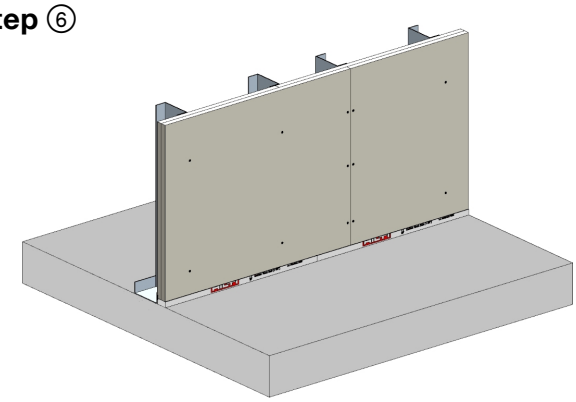
Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams.

Step ⑤



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

Step ⑥



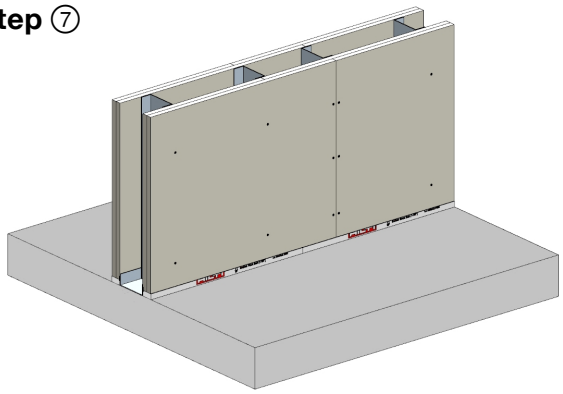
Install drywall layer 2. Ensure to check joint width of **3/4" max**.

INSTALLATION GUIDE

5.0 NON-CONTINUOUS TRACK

5.1 2hr Gap in track (continued)

Step ⑦

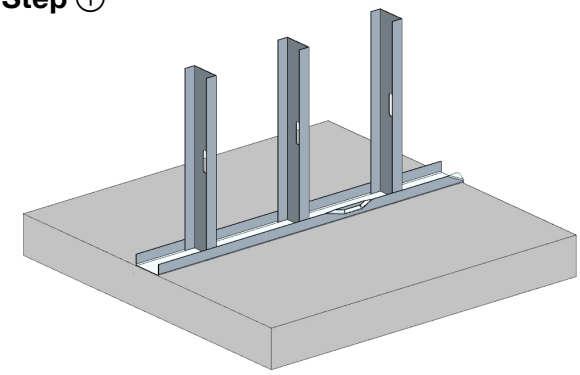


Repeat steps 2 – 6 on the opposite side of the wall.

INSTALLATION GUIDE

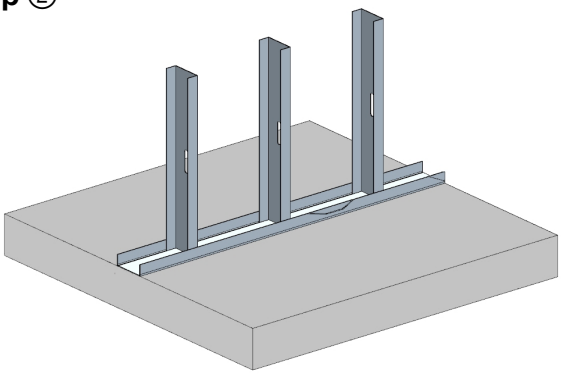
6.0 DAMAGED TRACK

Step ①



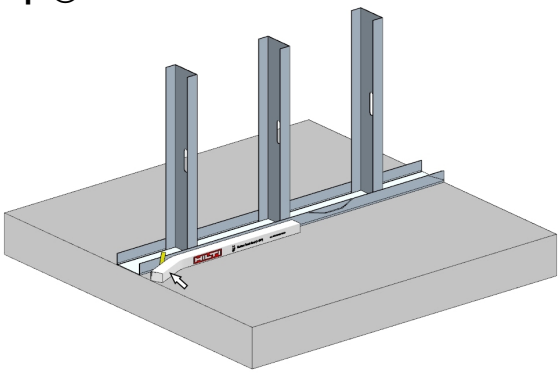
Identify damaged portion of the track.

Step ②



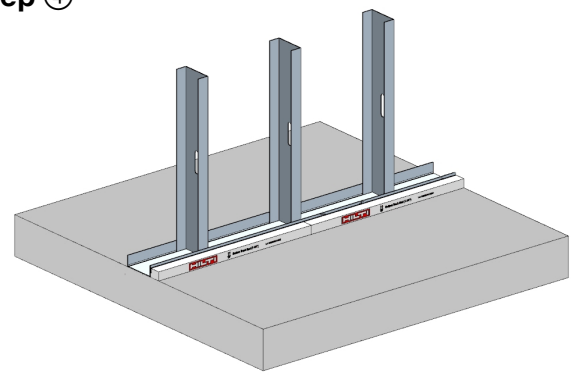
Repair track to original flange height. If unable to meet, refer back to ‘non-continuous track’

Step ③



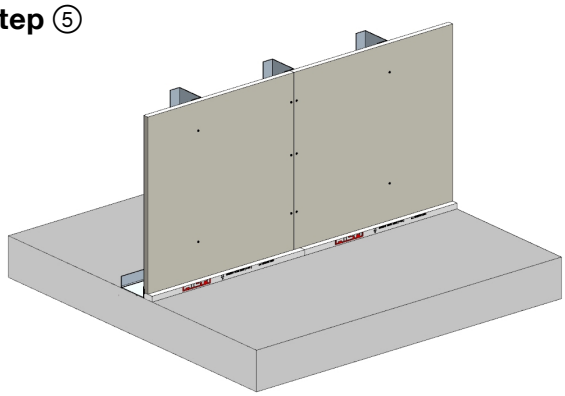
Place the CFS-BTS with the correct side up flat to the concrete surface. Peel back silicone paper liner to expose the pressure sensitive adhesive, then press firmly to the leg of the bottom track.

Step ④



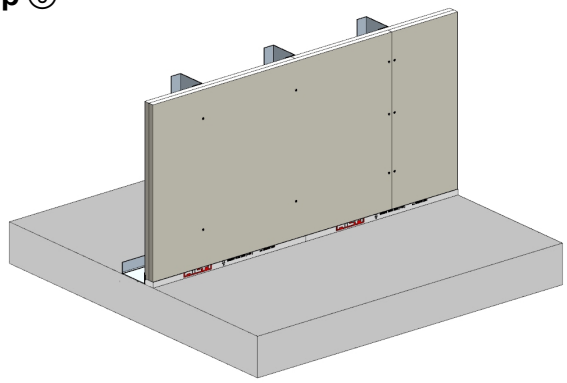
Install remaining product along the track. Ensure **minimum 1/2" compression** at all butt seams.

Step ⑤



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

Step ⑥

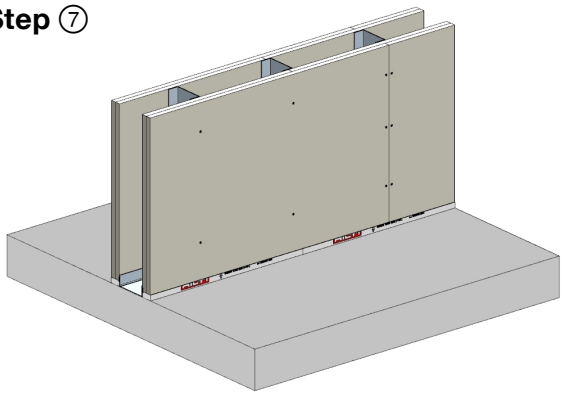


Install drywall layer 2. Ensure to check joint width of **3/4" max**.

INSTALLATION GUIDE

6.0 DAMAGED TRACK (CONTINUED)

Step ⑦



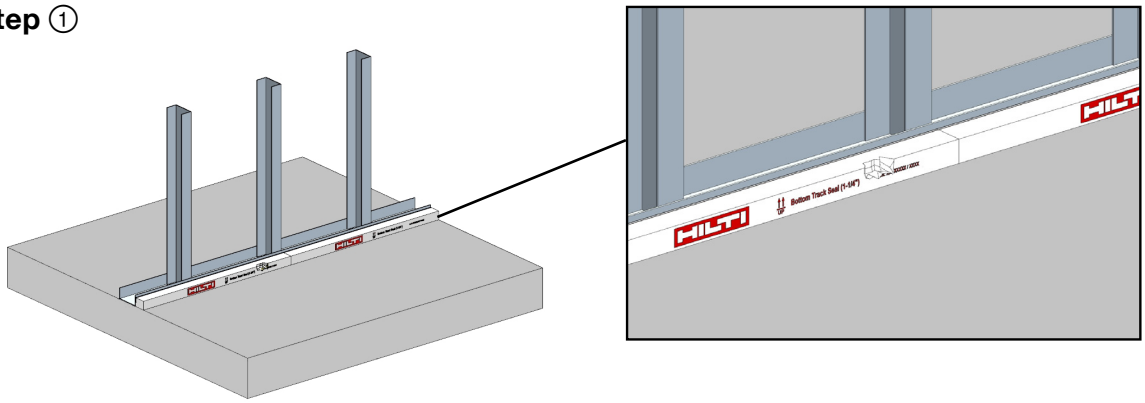
Repeat steps 3 – 6 on the opposite side of the wall.

INSTALLATION GUIDE

7.0 DAMAGED BTS (VOID)

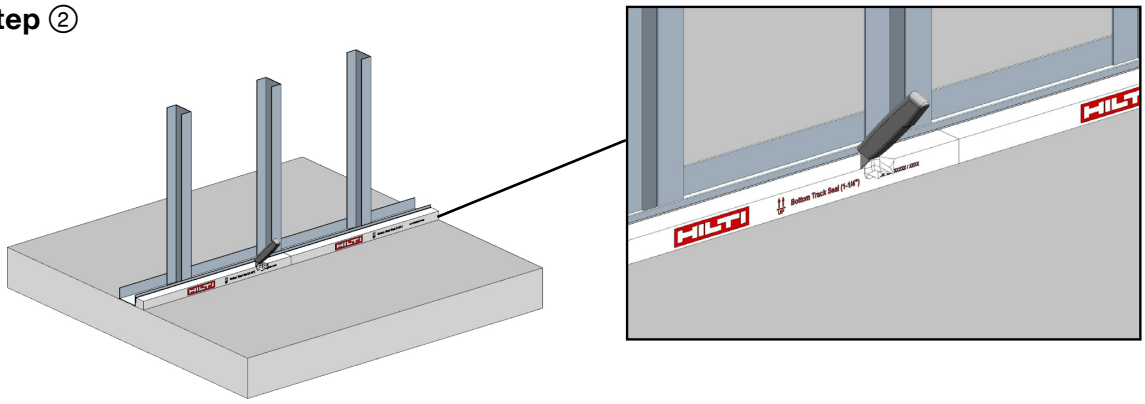
7.1 Pre-drywall install

Step ①



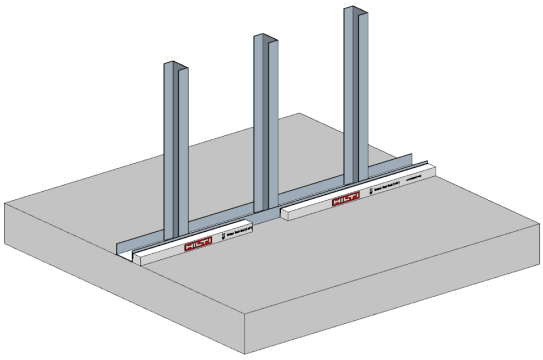
Identify damaged CFS-BTS product.

Step ②



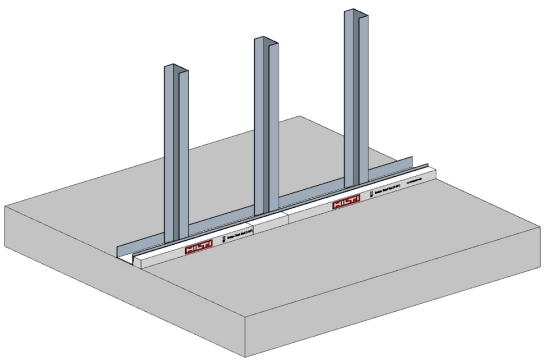
Cut out damage portion of the CFS-BTS product. Maximum allowable length of cutout is 6 inches.

Step ③



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

Step ④



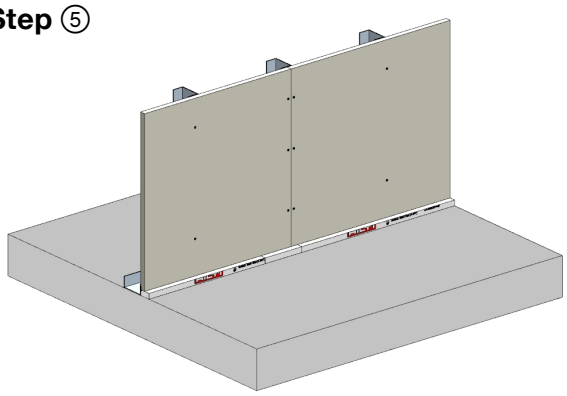
Insert and install the new piece of CFS-BTS into the opening by removing the silicone paper liner and ensure **minimum 1/2" compression** on both sides.

INSTALLATION GUIDE

7.0 DAMAGED BTS (VOID)

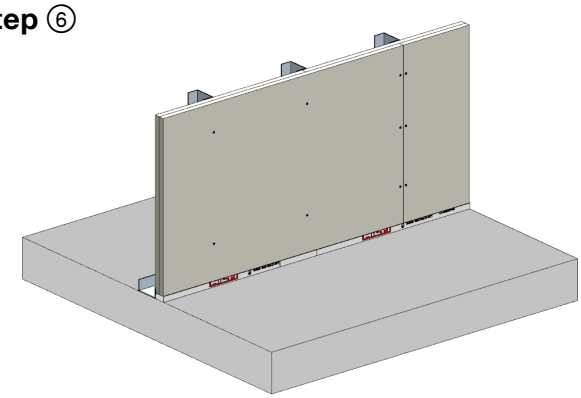
7.1 Pre-drywall install (continued)

Step ⑤



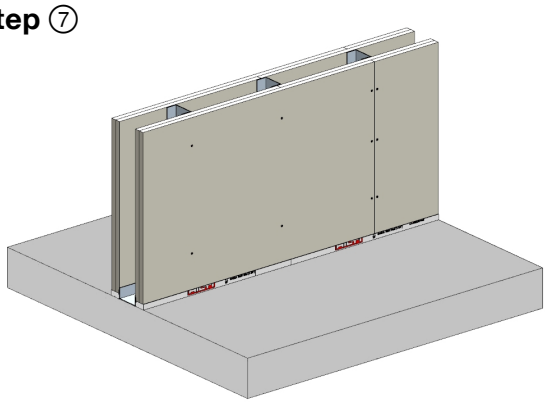
Place the drywall layer 1 on top of CFS-BTS and install according to appropriate UL/cUL listing.

Step ⑥



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

Step ⑦



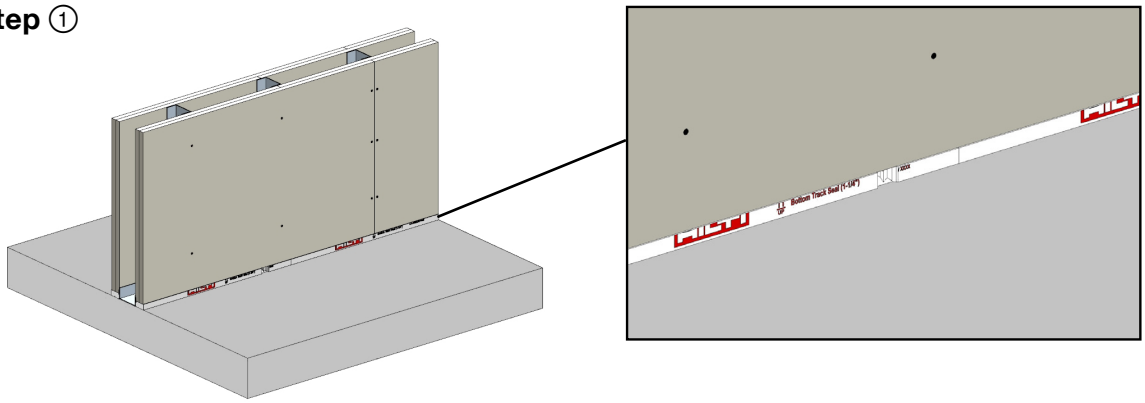
Repeat steps 5 - 6 on the opposite side of the wall.

INSTALLATION GUIDE

7.0 DAMAGED BTS (VOID)

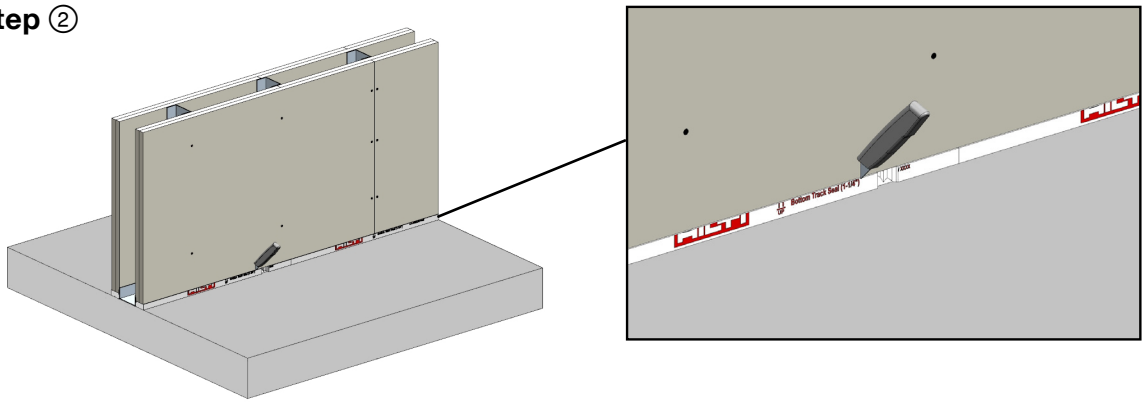
7.2 Post-drywall install

Step ①



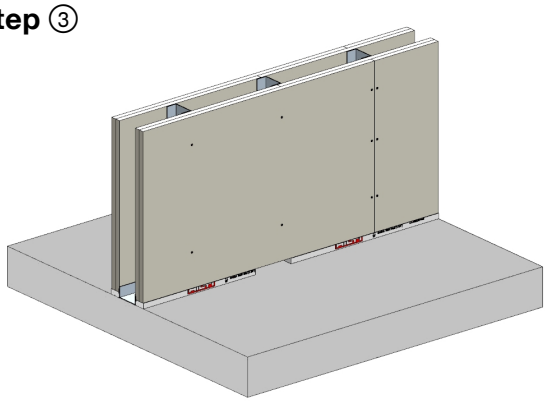
Identify damaged CFS-BTS product.

Step ②



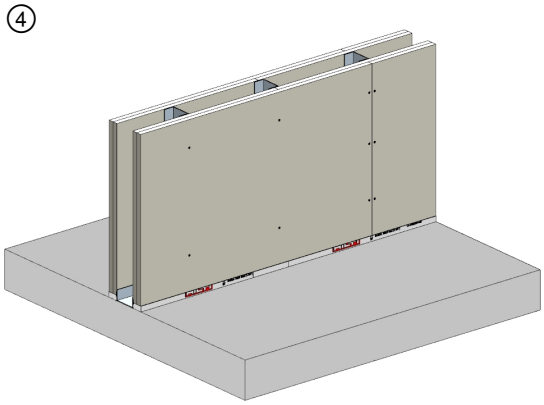
Cut out damaged portion of the CFS-BTS product.

Step ③



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

Step ④



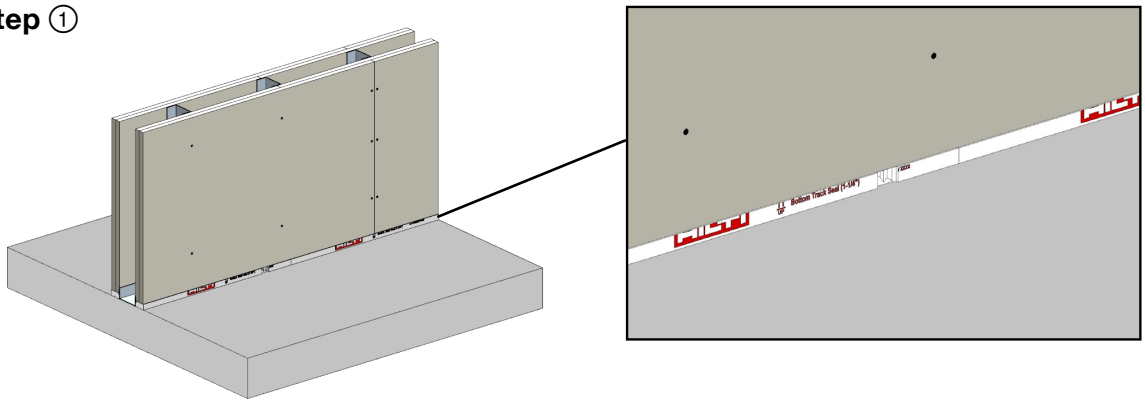
Insert and install the new piece of CFS-BTS into the opening without removing the silicone paper liner and ensure minimum 1/2" compression on both sides.

INSTALLATION GUIDE

7.0 DAMAGED BTS (VOID)

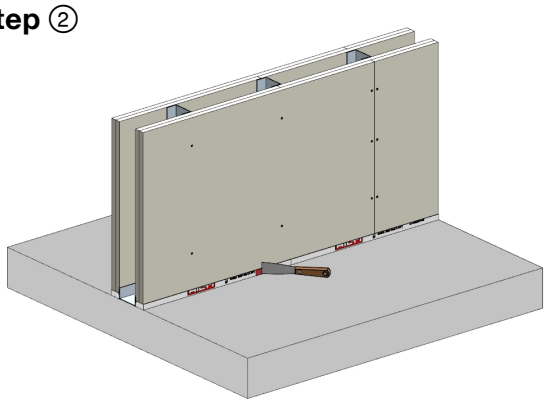
7.3 Repair with sealant

Step ①



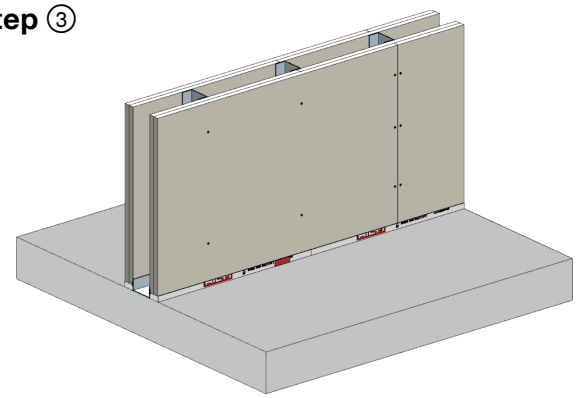
Identify damaged CFS-BTS product.

Step ②



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.

Step ③



Finished installation.

INSTALLATION GUIDE

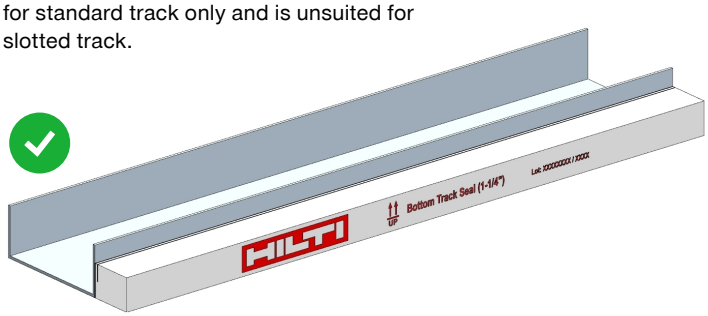
8.0 PROPER PROCEDURE FOR CFS-BTS

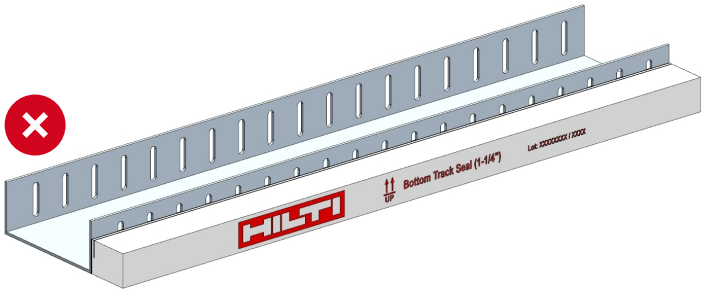
8.1 Listing Requirement

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

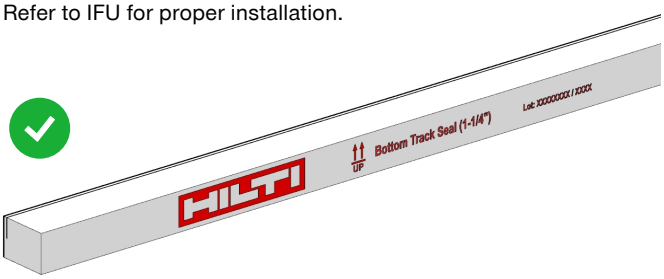
CFS-BTS Bottom Track Seal is designed for standard track only and is unsuited for slotted track.





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)
Refer to IFU for proper installation.

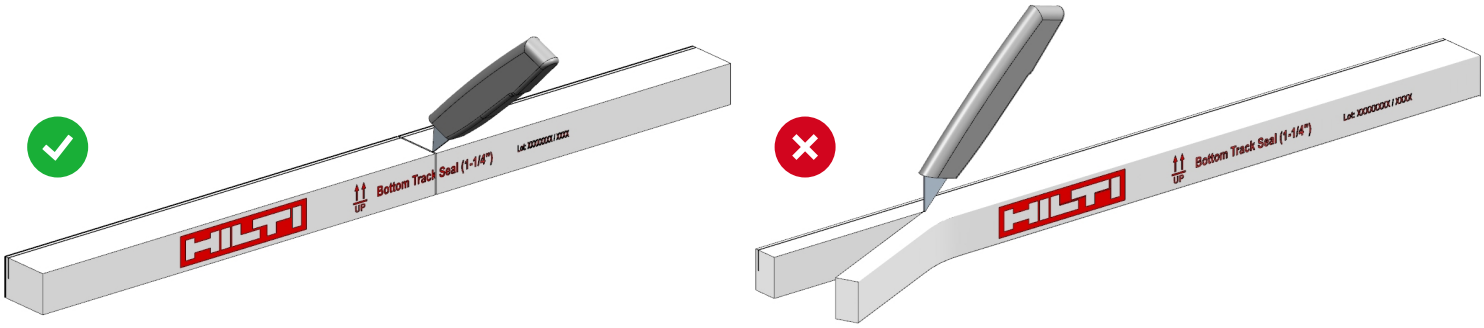


INSTALLATION GUIDE

8.0 PROPER PROCEDURE FOR CFS-BTS

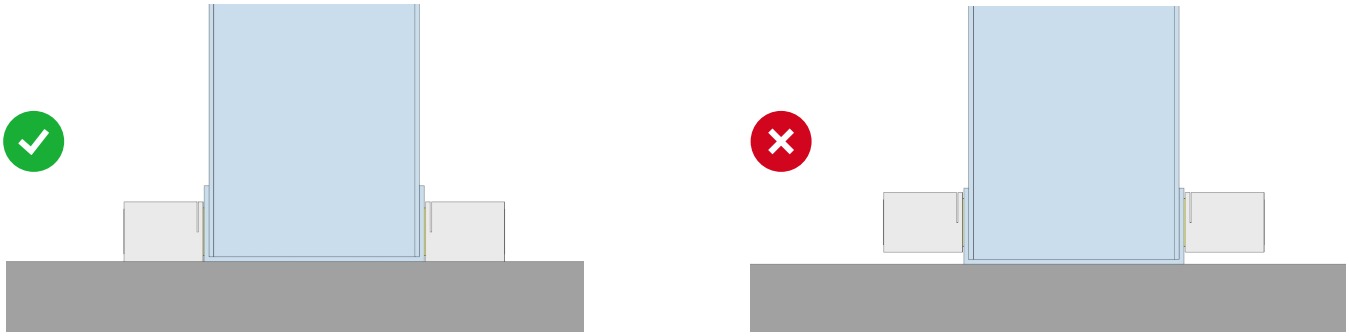
8.4 Cutting BTS

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



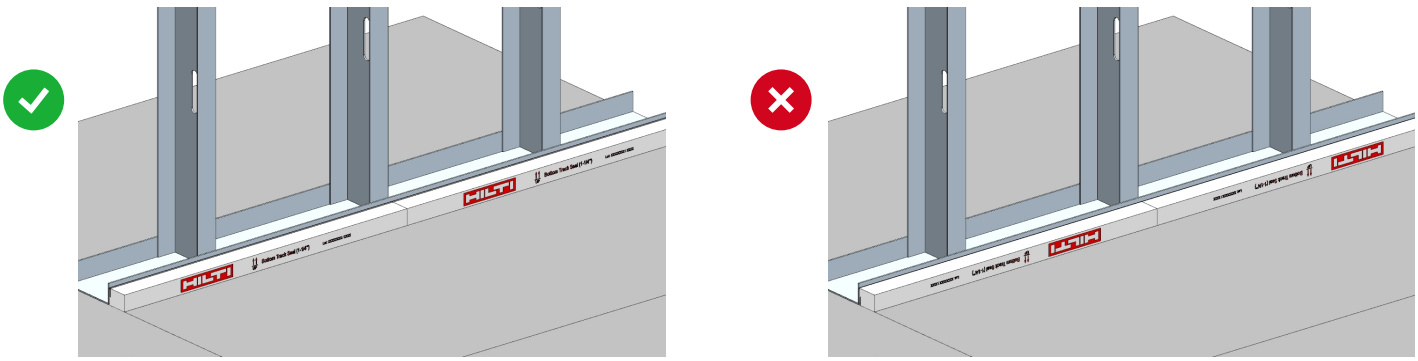
8.5 Have gap between concrete and bottom of BTS

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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