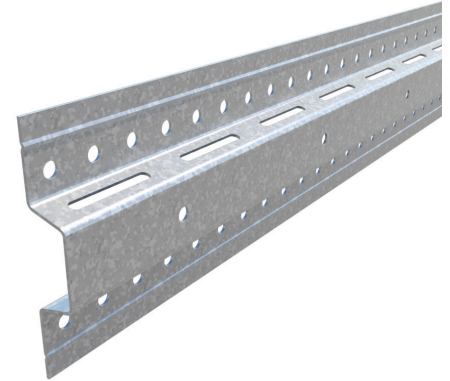




## System Description

ProChannel Ci Cladding Support with Grip-Deck TubeSeal® Technology is to be installed as rainscreen framing over exterior continuous insulations, providing a minimal thermal footprint while providing a stable support system for exterior wall cladding construction on a ventilated rainscreen system. The ProChannel Ci meets the requirements of AISI S100-16 (2020) w/S2-20 and AISI S240-20. The Grip-Deck TubeSeal® meets the requirements of ASTM C1513. The fasteners are provided pre-assembled (screw and sleeve), the length will depend on the insulation thickness and back-up wall material. For a complete description of the ProChannel Ci and Grip-Deck TubeSeal® refer to the submittal sheet.



## System Preparation

The ProChannel Ci is to be installed horizontally (perpendicular to studs), with the Grip-Deck TubeSeal® fastening it to the structure in pairs (see Figure 1), over the continuous mineral wool insulation.

Refer to the ProChannel Ci structural design tables at ClarkDietrich.com for recommended rail and fastener spacing. The maximum ProChannel Ci fastener spacing is 48" on center vertical and maximum 32" horizontal fastener spacing (see Figures 1 and 2 for details).

Prior to the installation, the installer must ensure that air/water barrier is fully installed, cured, and in accordance with the manufacturer's instructions and project-specific details. All fenestration, transitions, discontinuities, sills, and ledgers should be flashed and sealed to direct moisture away from the building's interior in accordance with the manufacturer's instructions and project-specific details. The designer shall consider thermal expansion and contraction effects when designing the wall system and include breaks according to established practice.

Ensure the channel is fastened to sound structure, structural steel studs shall be a minimum 33mil (20ga) CP60 as required by AISI S240-20. The designer of record shall determine the framing system required to meet the project load conditions (wind, rain, seismic, etc).

The continuous insulation shall be Exterior Mineral Wool with a minimum compressive strength of 439 psf at a 10% compression per ASTM C165 or equal.

**Step 1** Locate the first row of ProChannel Ci within 6 inches from the base of the wall making sure the channel is secured to the stud and not the track at the base of the wall.

**Step 2** Determine starting point and plan working transition point over studs for each ProChannel Ci.

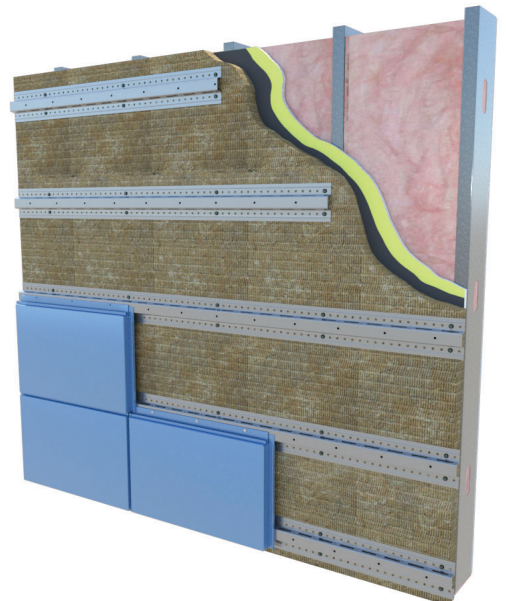
**Step 3** Ensure Grip-Deck TubeSeal® fasteners are driven through the insulation and sheathing into the structure (stud framing system).

**Step 4** Abutting ProChannel Ci channels shall have a min 1/16" to max 1/8" gap to accommodate for expansion and stepped to avoid concurrent joints on the vertical steel-stud. (see Fig. 3 for details).

**Step 5** For Inside or outside corners, the ProChannel Ci may cantilever past the last fastening point; but it is recommended to stay within 6 inches for 2" insulation or 8 inches for 4" insulation from the corners. (see Fig. 4 and Figure 5 for details).

## NOTES:

- Gypsum sheathing is a nonstructural component, and the fasteners must connect to the studs.
- When fastener spacing is identified at 32" or 48" on center, stud spacing is 12", 16" or 24" on center, respectively.
- To avoid screw stripping or improper screw attachment, do not back out screws and re-drill them.
- If fastener misses stud during installation (known as a "shiner") refer to air/water barrier manufacturer's recommendation for sealing the penetration.
- When base wall's stud flange is less than 2", splice abutting channel joints with 1/2"x 4" Cold Rolled Channel (CRC) and 2 (two) pan head screws per side to attach the Cold Rolled Channel (CRC) (see Fig. 3)
- When securing the ProChannel Ci, avoid over-tightening the fasteners beyond the manufacturer's recommendations. Fasteners should be tightened snugly to allow for expansion and contraction without stripping or tearing the TubeSeal®. (see Fig. 6 for details).
- When installing on wood studs, ensure that the Grip-Deck TubeSeal® fastener is HiLo wood type screw (available upon request). If using wood framing or sheathing it will compromise the combustibility and may drive requirements for combustible construction, not evaluated with the ProChannel Ci system.



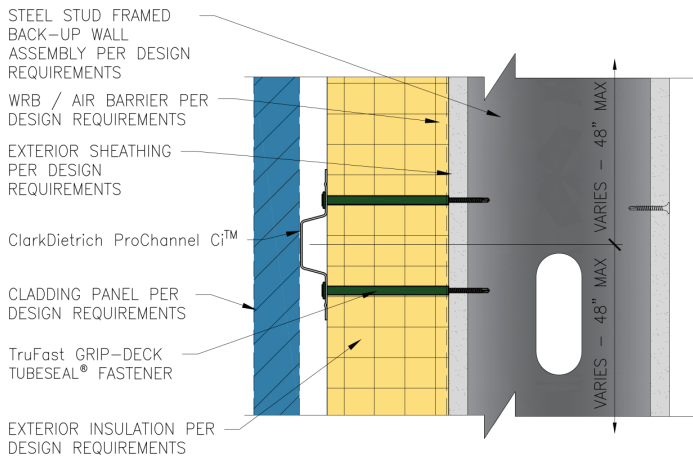


Figure 1

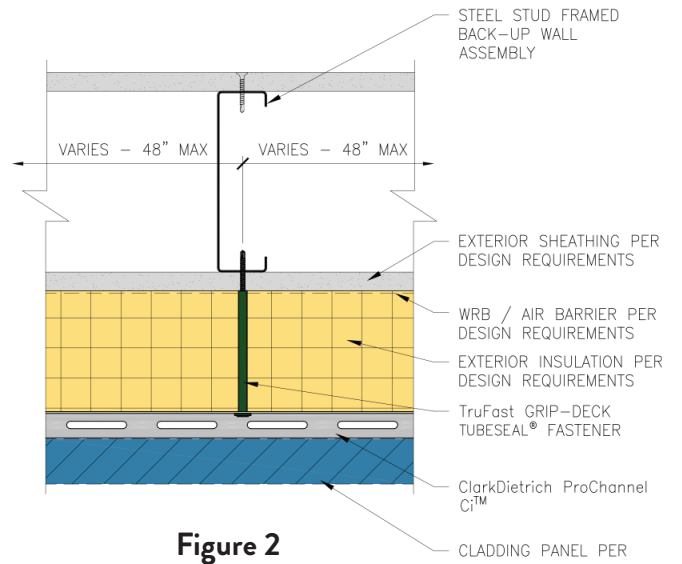


Figure 2

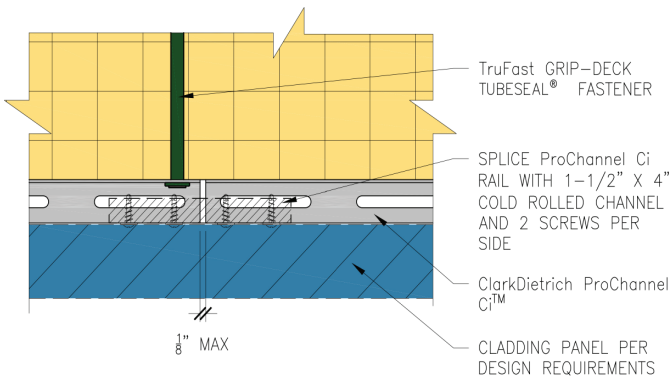


Figure 3

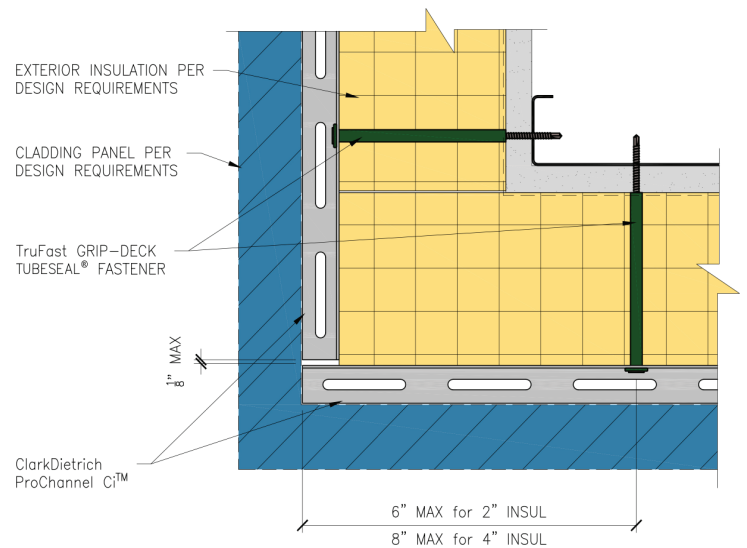


Figure 4

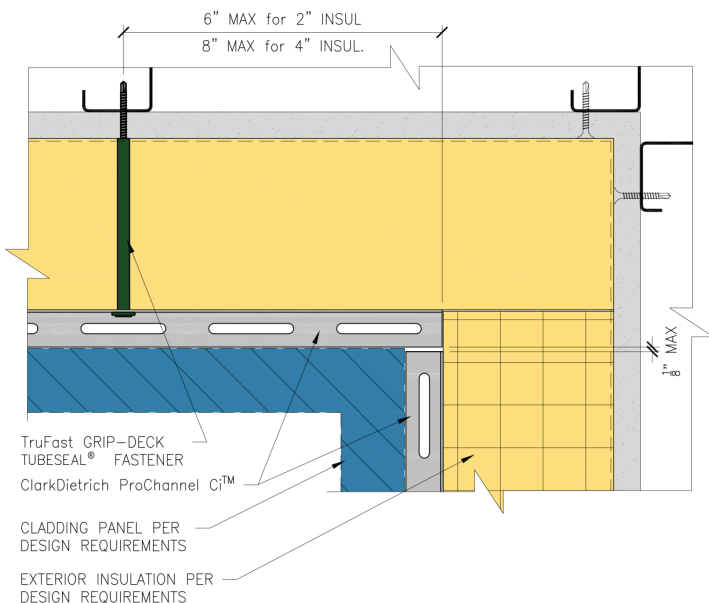
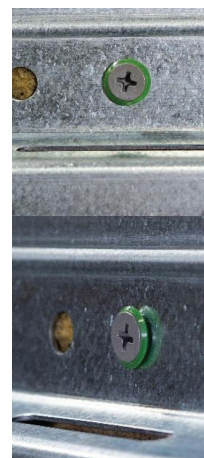


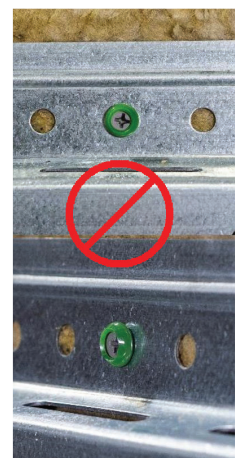
Figure 5



Underdriven



Properly Driven



Overdriven

Figure 6