



System Description

ProChannel Ci™ Cladding Support with Grip-Deck TubeSeal® Technology are to be installed over exterior insulated steel-framed buildings, 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 vertically (aligned with studs), with the Grip-Deck TubeSeal® fastening it to the structure (see Fig 1) over the continuous 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 24" on center vertical and maximum 32" horizontal fastener spacing (see Fig 1 and 3 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 have a minimum compressive strength of 439 psf at a 10% compression per ASTM C165 or equal.

Step 1 Locate ProChannel Ci™ at the base of the wall making sure the channel is secured to the stud and not the track at the base of the wall. Fasten within 3" of bottom track or design requirements (see Fig. 2).

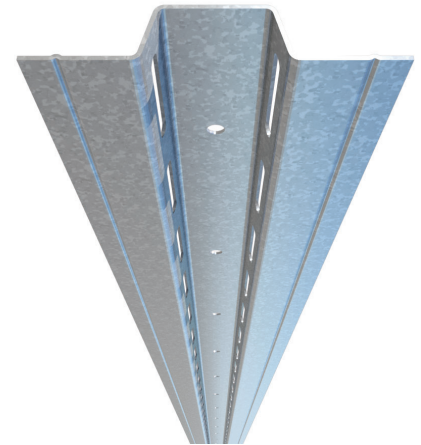
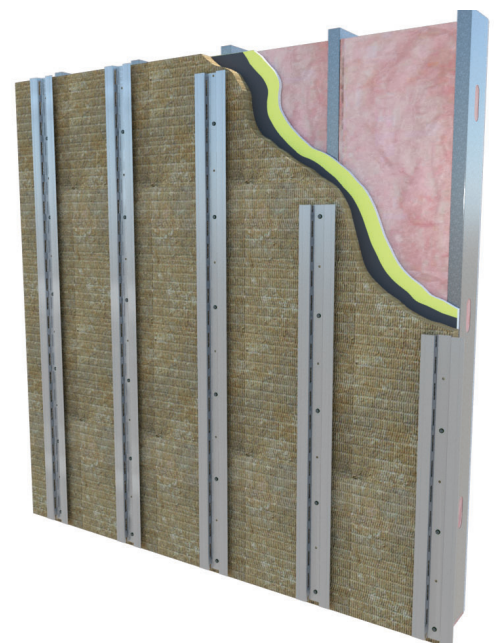
Step 2 Ensure Grip-Deck TubeSeal® fasteners are driven through the insulation and sheathing into the structure (stud framing system).

Step 3 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 4 For Inside or outside corner details, see Fig. 4 and Figure 5.

NOTES:

- Gypsum sheathing is a nonstructural component, and the fasteners shall connect to the framing members.
- 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 manufacturers recommendation for sealing the penetration.
- 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 framing members ensure that the Grip-Deck TubeSeal® fastener is Hi-Lo 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.



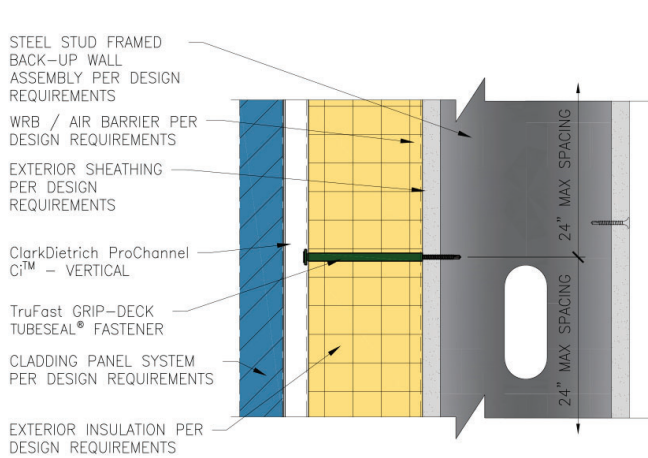


Figure 1

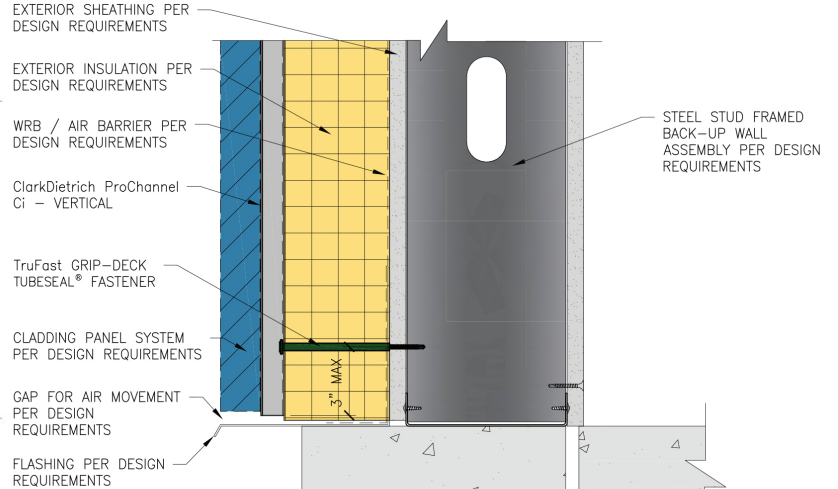


Figure 2

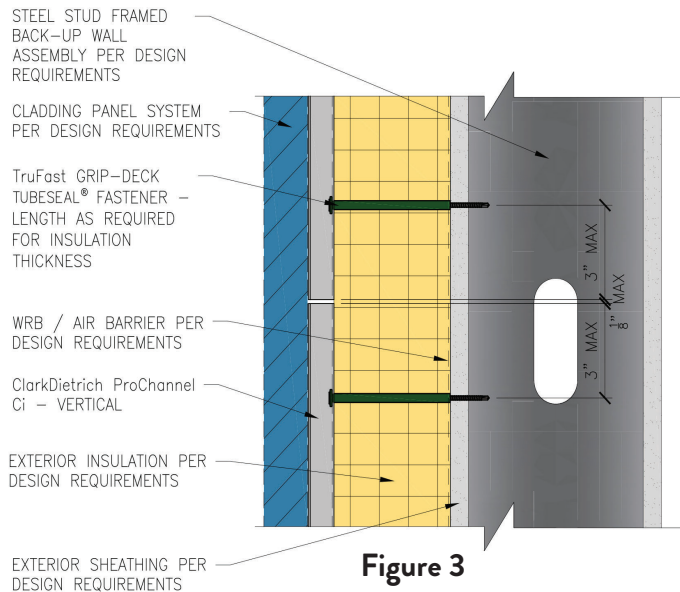


Figure 3

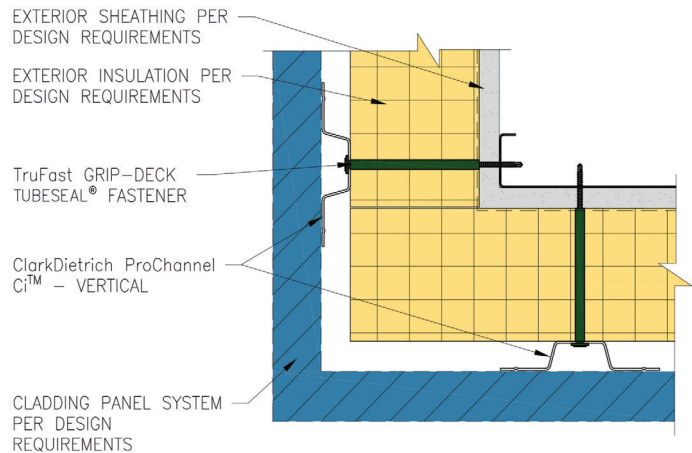


Figure 4

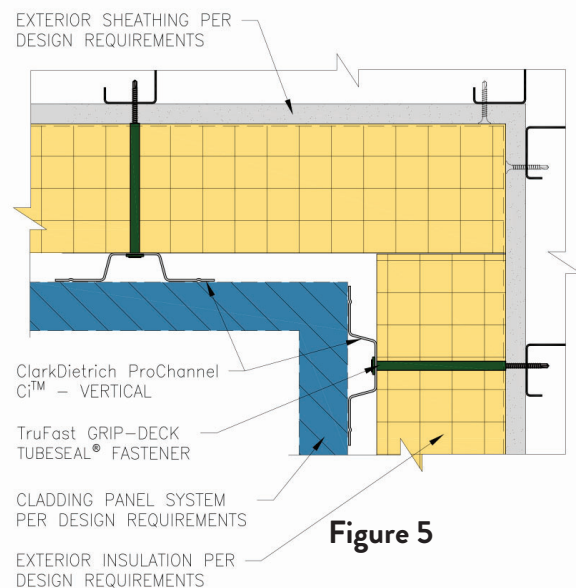
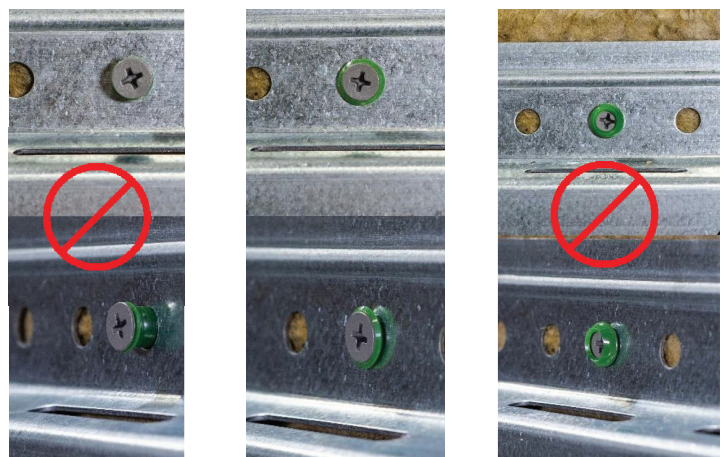


Figure 5



Underdriven

Properly Driven

Overdriven

Figure 6