CavityComplete®
Steel Stud Wall System

Installation Instructions

FOAMULAR® Extruded Polystyrene (XPS) Rigid Foam Continuous Insulation

Using Rodenhouse Inc. Fastening Systems for Steel Stud Walls

RODENHOUSE
Fastening Systems

FOAMULAR® XPS is preliminarily secured to the wall using 2" diameter Thermal-Grip® ci prong washers with Grip-Deck™ ci ceramic-coated, self-drilling screws (recommended screw length 1" longer than the thickness of insulation plus any layers of exterior gypsum sheathing). Dual prongs on the washer allow for pre-spotting on the surface of the insulation for fast "on-the-wall" screw assembly. The number of preliminary fasteners may be as few as 2 per board evenly placed near the opposite ends of a horizontal 2x8 piece. Use more preliminary fasteners if wind or other job site conditions may displace the board before permanent fastening is accomplished. Permanent attachment is accomplished with Thermal-Grip® brick-tie ci prong washers and Pos-I-Tie® masonry veneer anchors placed in each stud, 16 inches on center vertically.

Installation Procedures using Thermal-Grip® Ci Prong Washers with Grip-Deck™ Ci Ceramic Coated Self-Drilling Screw

Step 1

Locate studs behind insulation (use a chalk line if necessary) and press Thermal-Grip® ci prong washers onto the surface of insulation according to spacing requirements.

Step 2

Press Grip-Deck™ ci ceramic-coated, self-drilling screws through the center hole of the washer and drill into the steel stud until the washer compresses flush on surface of insulation. Do not overdrive.

EZ-Driver chuck adapter (optional accessory)

The EZ-Driver chuck adaptor fits any standard drill chuck and reduces screw wobble. Insert screw into the adaptor (screw will be held straight by internal bearing mechanism and drill tip pressure). Press screw through pre-spotted washer center hole and insulation until contact is made with substrate. Insert at a perpendicular angle to surface of steel studs and maintain steady pressure on the self-drilling screw tip. As the drill tip penetrates through the steel stud, the nose of the EZ-Driver will make contact with surface of the washer, releasing the bit from screw head when the desired depth is achieved. Depth of drive is adjustable to 8 settings by pressing dial and rotating to desired setting located on the back of the adaptor. Once depth gauge has been set, all successive screws should drill and release to a flush and accurate depth.

Prevents screw wobble *Depth adjustment dial*

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Grip-Lok® auto-feed fastening system with Bullseye™ adapter (optional accessory)

Pre-spot the Thermal-Grip® ci prong washers onto insulation. Position Bullseye® nose adapter over center "hump" of washer. Depress trigger while pressing the gun forward at a perpendicular angle to the steel studs with constant pressure, until the collated Grip-Deck™ ci self-drilling screw tip penetrates the steel and compresses washer flush with the surface of the insulation. Drive depth can be adjusted by turning the depth dial to prevent fasteners from overdriving into/through the insulation. The Grip-Lok® auto-feed system increases fastening speed 3 to 4 times compared to driving bulk screws and washers with an ordinary power drill.

Installation Procedures using Thermal-Grip® Brick-Tie Washers with Pos-I-Tie® Masonry Veneer Anchors

Step 1

Pre-spot Thermal-Grip® brick-tie ci prong washers onto the insulation. Using the Pos-I-Tie® chuck adapter tool in a standard drill, install the Pos-I-Tie® barrel screw. Keep the barrel screw straight and level when drilling. Tighten until washers flatten on surface and the Pos-I-Tie® shank bottoms out on the surface of the steel stud. The clamping pressure of the Thermal-Grip® brick-tie washer seals the penetration through the air barrier. Do not over-tighten/strip out barrel screws (consult the CavityComplete® Pos-I-Tie® installation instructions for additional installation details at www.CavityComplete.com).

Step 2

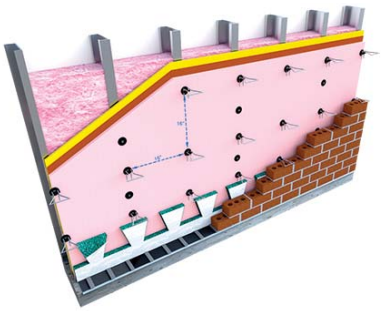
If necessary, use pliers to level the loop on the end of the barrel to a horizontal position.

Step 3

Snap the ThermalClip® onto the barrel screw ensuring that both sides of the clip are secure. Snapping closed with pliers works best.

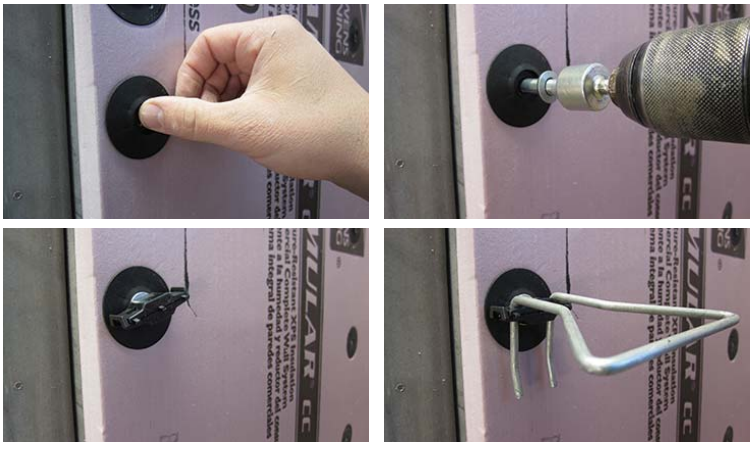
Step 4

Insert the pintle tie as the veneer is going up and grout the tie in the mortar joint.



NOTE: In order to fill the errant hole caused by a misplaced and/or removed Pos-I-Tie,® fill the void with PROSOCO R-Guard® Joint & Seam Filler or FastFlash® taking care to allow the PROSOCO R-Guard® Joint & Seam Filler or FastFlash® to make contact with the PROSOCO R-Guard® Cat-5 below the insulation and fill the hole fully and flush to the outer surface of the insulation.

Please consult building codes to determine the proper spacing requirements for veneer anchors. Installation video can be viewed on the Owens Corning YouTube Channel.



The CavityComplete® Wall System excludes the masonry veneer, steel studs and interior and exterior gypsum board. A detailed list of the components is available at www.CavityComplete.com.

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