

Pos-I-Tie® ThermalClip® Masonry Veneer Anchor System for Wood Stud Backup



The Pos-I-Tie® system is an adjustable masonry anchor that ties the brick veneer to the wood stud backup.

IBC Requirements for Masonry Anchors

The International Building Code (IBC) references the standards TMS 402, ACI 530, and ASCE 5, "Building Code Requirements for Masonry Structures", all of which contain the following prescriptive requirements for cavities up to 4-1/2":

- A. The maximum offset from the pintle wire to the backup anchor is 1-1/4" (31.75 mm). The wire diameter must be 3/16".
(Note — the pintle tie can be placed above or below the barrel screw so the total adjustment spans 2-1/2")
- B. Anchor spacing is one per 2.67 square feet spaced a maximum of 32" horizontally and 25" vertically.
- C. Anchors must be embedded in the veneer a minimum of 1-1/2" with at least 5/8" of mortar or grout cover to the outside face.



Barrel screws are available in 9 lengths (5/8", 1", 1-1/2", 2", 2-1/2", 3", 3-1/2", 4" and 4-1/2"). Barrel screws penetrate both the rigid insulation and gypsum board but not Plywood or OSB before making contact with the backup. Barrel screw length is determined by a combination of the thickness of the FOAMULAR® Extruded Polystyrene (XPS) and the exterior gypsum board sheathing. For example, 2" continuous insulation over 5/8" exterior gypsum sheathing requires a 2-1/2" long barrel screw. 2" continuous insulation over OSB or Plywood would require a 2" long barrel screw.

Installation

Step 1

Snap a chalk line on the exterior continuous insulation as close as possible to the mortar joint just above the flashing.



Step 2

Locate the studs behind the insulation and press the Thermal-Grip® brick-tie washer onto the surface of the insulation about 1/4" below the chalk line. Using the Pos-I-Tie® chuck adapter tool in a standard drill, install the Pos-I-Tie® barrel screw through the Thermal-Grip® washer keeping the barrel screw straight and level when drilling. Do not over-torque. (Optional — load Thermal-Grip® brick-tie washer onto the Pos-I-Tie® Barrel Screw first and then install through insulation.)



Step 3

Drill the barrel screw in until snug and the washer flattens against the insulation. Do not overdrive. If necessary, use pliers to level the loop on barrel to a horizontal position.



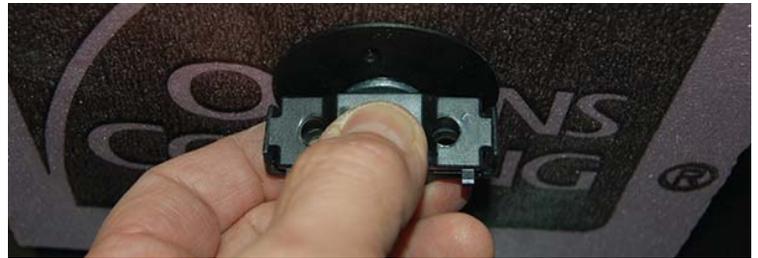
Pos-I-Tie® Barrel screw and Rodenhouse Thermal-Grip® washer

Step 4

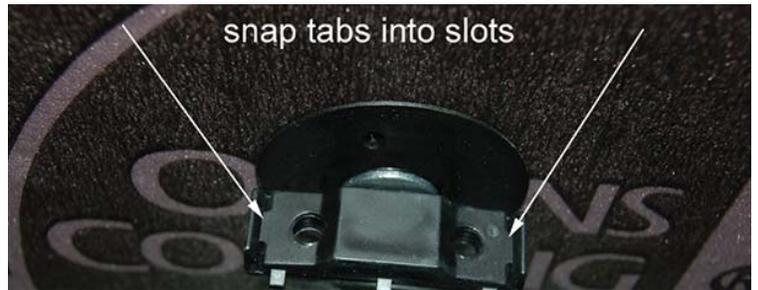
Snap the ThermalClip® onto the loop of the barrel screw from the bottom side first as shown.



Place tab in Pos-I-Tie® barrel slot



Fold ThermalClip®

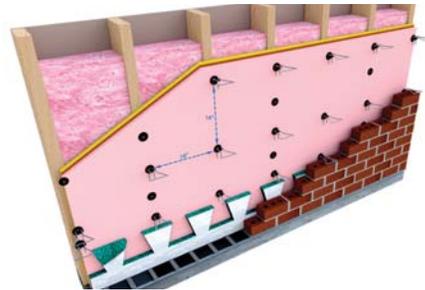


Make sure tabs snap into the sides using needle nosed pliers if necessary to ensure closure

Step 5

Insert the pintle tie in the holes in the ThermalClip® 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® or screw, fill the void with R-Guard® Joint & Seam Filler taking care to allow the R-Guard® Joint & Seam Filler to make contact with the R-Guard® CAT 5® below the insulation and fill the hole fully and flush to the outer surface of the insulation.



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