**HECKMANN BUILDING PRODUCTS INC.**
**1501 N. 31ST AVENUE**
**MELROSE PARK, IL 60160-2911**
**800-621-4140 and 708-865-2403**
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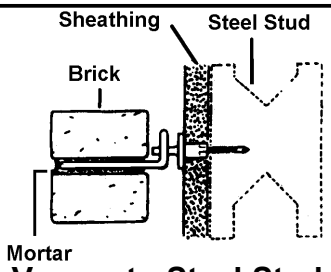
# pos-i-tie®

U.S. Patent # 4473984
and # 4764069
Canada Patent # 1224344

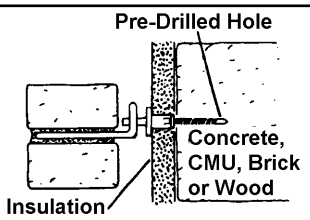
## ARCHITECTURAL SPECIFICATION INFORMATION

## 3 TYPES OF SCREWS

## 3 APPLICATIONS

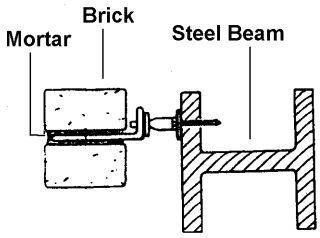



**Self Drilling Screw for Brick Veneer to Steel Studs**




**Tapcon® Screw for Brick Veneer to Concrete, CMU, or Wood**

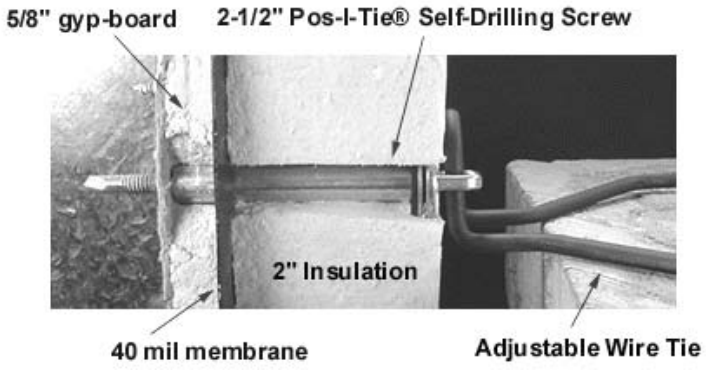
Pos-I-Tie® Tapcon® may not be appropriate for use in concrete over 4,000 psi.



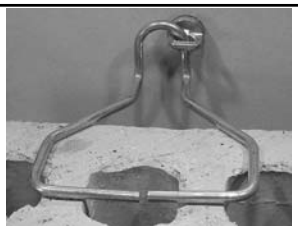

**Dril-It® Screw for Brick Veneer to Steel Beam**

**Six Barrel lengths available for insulation/gypsum board sizes amd combinations:**
**1/2"& 5/8", 1", 1-1/2", 2", 2-1/2", and 3"**

The Pos-I-Tie® conforms with the Energy Conservation Requirements of the Massachusetts State Building Code (780 CMR 13 Envelope)




## 3 TYPES OF TIES



**Triangular Wire Tie**

**Seismic Wire Tie**

Ties are 3/16" diameter x 3", 3 1/2", 4", or 5" Long in Hotdip Galvanized, Mill Galvanized and Stainless Steel. Special lengths are available.

**Single Wire Tie**
**(Check for local code acceptance of single wire tie.)**

Now Available: 1/4" extension screws for use with thicker Dens-Glass or insulation.

### NO. 75 POS-I-TIE® ADVANTAGES OVER OTHER SYSTEMS

1. Pos-I-Tie® system fully complies with the ACI 530 Code. The Barrel Screw is one piece. No more plates, screws and gaskets. Installs in seconds.
2. Uses consistent screw. Screw is provided as a part of the POS-I-TIE® System. - No inferior screws can be substituted.
3. Provides positive connections. The Barrel Section actually penetrates sheathing and makes a Positive Lateral Connection with the backup for transfer of compression and tension loads to structural backup.
4. Enables speedy cost-saving installation. Only one screw needs to be placed, rather than two screws.
5. Corrosion Resistant. POS-I-TIE® seals the hole it makes when it seats itself in the backup. Barrel section is made of ZAMAC 2, a 92% zinc alloy. Screws are Zinc electro plated, coated twice, and baked in STALGARD®.
6. Slotted Barrel allows for differential movement due to temperature variations. Tie design provides for allowable ACI 530 code vertical adjustment.
7. Allows for use of 4' x 8' insulation sheets.The Pos-I-Tie® holds the insulation in place!

Test Data Available Upon Request

**ARCHITECTURAL SPECIFICATION OF POS-I-TIE®**

PART 2 PRODUCTS

2.01 MANUFACTURER

**HECKMANN BUILDING PRODUCTS INC.**
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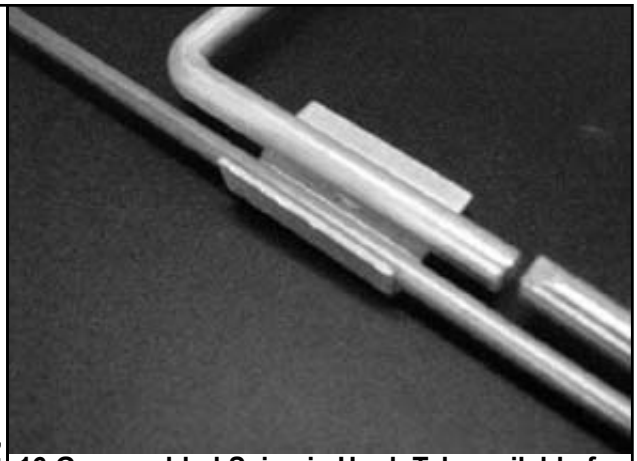
2.01 MASONRY VENEER ANCHORS AND TIES

A. Veneer Anchors: Pos-I-Tie® Screw Zinc alloy barrel, flanged head, and eye with interchangeable corrosion resistant self drilling threaded screws appropriate for permanent attachment in [steel studs,] [structural steel,] [concrete,] [masonry] back-up. Barrel shaft in lengths consistent with thickness of materials penetrated (e.g. [insulation] [and] [sheathing], allowing shoulder to seat directly on structural back-up and flanged head to cover fastener hole. [3/4 inch rubber washer under flanged head shall seal surface penetration of anchor.]

B. Ties: [Hot Dipped galvanized, 3/16" (0.1875") pregalvanized wire size, conforming to ASTM A 641 or ASTM A 82 with 1.50 oz/sf zinc coating conforming to ASTM A 153 Class B-2] [Mill Galvanized, 3/16" (.0875") wire size, conforming to ASTM A 641 with 0.10 oz/sf zinc coating]. Configure tie to prevent pullout from mortar joints, prevent flow of water to anchor, and allow connection to anchor transferring lateral tension and compression loads without excess mechanical play and deformation. Tie length shall provide not less than 2 inch embedment in mortar joints.

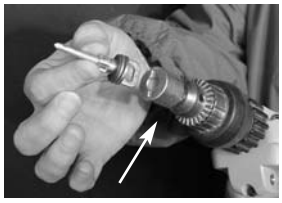
**Stainless Steel Pos-I-Tie® Stone Anchors:** Availiable 3/16" or 1/8" thick. Specify length, width, and bend type (Split-bend shown above, straight bend, or pin type available)



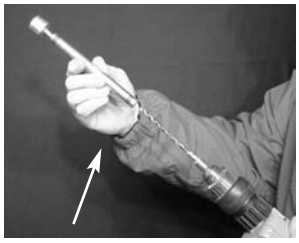
**16 Gage welded Seismic Hook Tab available for Single, and Triangle Pos-I-Tie® Wires for areas in Seismic Zones.**

**EASY INSTALLATION**

Use a drill with a depth sensitive nose piece or a variable clutch adjustment. The barrel end of the POS-I-TIE® is placed into the reusable chuck adapter. For steel studs, drill the POS-I-TIE® through the gypsum board and into the metal stud. For structural steel, center punch prior to drilling. (High tensile steel or very thick steel may require pre-drilling a 3/16" (4.76 mm) hole.) For concrete, CMU, or brick, use the Con-Drive® Adapter with drill bit. Pre-drill a 3/16" (4.76 mm) hole to a depth of 2" (51 mm). Slide the Con-Drive® Sleeve over the drill bit and insert the Tapcon® Screw into the chuck adapter. Torque screw into the pre-drilled hole.
The reusable chuck adapter and sleeve tool are available from Heckmann.



**Chuck Adaptor**



**Con-Drive® Sleeve Tool**

**POS-I-TIE® TECHNICAL SPECIFICATIONS**

**BARREL NUTS**
92% Zamac 2 Zinc Alloy
Material Spec: ASTM AC43A SAE 921

**TAPCON® SCREWS**
Material Spec: Carbon Steel (AISC C10B21 or C1022)
Heat Treat Spec: Case hardened & tempered. Case Rc 50.5 Min, Core Rc32-39, Case depth .005"-.011)
Plating Spec: Parts are coated with a proprietary blue finish which provides in excess of 800 hours of salt spray per ASTM B117.

**DRIL-IT® SCREWS**
Material Spec: SAE J429 Grade 5.2
Heat Treat Spec: SAE J78
Plating Spec:ASTM B-633 with thickness modified to .0003 minimum plus wax.

**SELF DRILLING SCREWS**
Material Spec: Carbon Steel (AISC C10B21 or C1022)
Heat Treat Spec: Case hardened & tempered. Case Rc 50.5 Min, Core Rc32-39, Case depth .005"-.009)
Plating Spec: Parts are coated with a proprietary silver/gray finish which provides in excess of 800 hours of salt spray per ASTM B117.