

#75 POS-I-TIE® Brick Veneer Anchoring System
(Barrel Screws and Triangle Wire Ties)
#75TC Pos-I-Tie® ThermalClip®
#282-N Pintle Wire Ties for ThermalClip®
#78-P Pintle Pin-Type Stone Anchor
#78-S Pintle Split-Bend Stone Anchor
#78-U Pintle U-Type Stone Anchor
#78-Z Pintle Z-Type Stone Anchor
#610 Thermal-Grip® Plastic Washers

SECTION 04 00 00 MASONRY
Section 04 05 19.16 Masonry Anchors
Section 04 05 19.29 Stone Anchors
Section 04 05 23 Masonry Accessories
Section 04 21 13.13 Brick Veneer Masonry

PART 1: GENERAL

1.1 RELATED SECTIONS

A. Provide shop drawings for all product locations.

1.2 SUBMITTALS

A. Manufacturer Certificate of Compliance for materials.

B. Product Data: Manufacturer's data sheet on each type of product furnished.

PART 2: MANUFACTURER

2.1 MANUFACTURER

Acceptable Manufacturer:
Heckmann Building Products
110 Richards Ave.
Norwalk, CT 06854-1685
800-621-4140
Email: info@heckmannanchors.com
Website: www.heckmannanchors.com

2.2 APPLICATIONS

A. Provide anchoring systems that comply with the Building Code Requirements for Masonry Structures TMS 402-16.

- B. ASTM A 36/A36M-14 Standard Specification for Carbon Structural Steel.
- C. ASTM A1008/A1008M Sheet Metal Anchors and Ties (Plain Steel)
- D. ASTM A153/A153M-16 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- E. Stainless Steel AISI [Type 304] [or] [Type 316]
- F. ASTM A240/A240M-15b Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Application.
- G. ASTM A666-15 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- H. ASTM A580/A580M-15 Standard Specification for Stainless Steel Wire
- I. ASTM A641/641M-09a (2014) Standard Specification for Zinc-Coated (Mill Galvanized) Carbon Steel Wire.
- J. ASTM A653/A653M-11 Standard Specification for Steel Sheet, Zinc-Coated (Mill Galvanized)

2.3 MATERIALS

- A. **Barrel Anchors for Backup** – Heckmann No. 75 Pos-I-Tie® one-piece barrel screw consisting of a 92% Zamac 2 Zinc Barrel, steel/EPDM washer, flanged head and eye to receive Pos-I-Tie® wire tie or ThermalClip®. Designed to seat barrel directly on structural portion of backup, with flanged head and washer sealing the fastener hole.
 - 1. Anchors to Concrete/CMU/Wood backup
NO. 75 POS-I-TIE® CONCRETE/CMU/WOOD BARREL SCREW
 - 2. Anchors to Steel Stud (18 gage – 12 gage) backup
NO. 75 POS-I-TIE® SELF-DRILLING STEEL STUD SCREW
 - 3. Anchors to Structural Steel backup
NO 75 POS-I-TIE® STRUCTURAL STEEL DRILL-IT SCREW
- B. **Masonry Veneer Wire Ties**
 - 1. **Pos-I-Tie® Triangle Wire Ties** for single barrel loop without ThermalClip®
 - a. 3/16" diameter x [3"] [3-1/2"] [4"] [5"] [custom length]
 - b. [Hotdip Galvanized After Fabrication] [Type 304 Stainless Steel]
 - 2. **Pos-I-Tie® 282-N Pintle Wire Ties** for ThermalClip® attachment
 - a. 3/16" diameter x [3"] [3-1/2"] [4"] [5"] [custom length]

- b. [Hotdip Galvanized After Fabrication] [Type 304 Stainless Steel]
- C. **ThermalClip®** attachment for thermal break between anchor and tie
 - 1. 75TC ThermalClip® Radel® Composite clip
- D. **Pintle Stone Anchors for ThermalClip®**
 - [1/8" only] [2" wide only] [Stainless Steel [304][316]] [pintles 1/8" x 3/16" with 1-1/4" vertical adjustability] [length (od)] [ctr to ctr pintles 1-1/8"]
 - 1. **78-P Pintle Pin-Type Stone Anchor**
 - [pin diameter] [pin length] [center of pin to end of anchor] [[loose pin] [welded pin]]
 - 2. **78-S Split-Bend Stone Anchor**
 - [split-bend length (od)]
 - 3. **78-U Pintle U-Type Stone Anchor**
 - [bend length (od)]
 - 4. **78-Z Pintle Z-Type Stone Anchor**
 - [bend length (od)]
- E. **610 Thermal-Grip® Plastic Washers**
 - 1. 2" diameter

PART 3: EXECUTION

- A. **Pos-I-Tie® Barrel Screws**
 - 1. Self-Drilling Screw: Use a standard drill with a variable clutch adjustment and a Pos-I-Tie® Chuck Adapter. Place the barrel end of the screw in the chuck adapter; drill through the gypsum board and into the metal stud. No pre-drilling is required.
 - 2. Concrete/CMU Screw: Use a standard hammer drill with a 3/16" (4.76 mm) masonry drill bit. Set the drill to Hammer mode and drill a 2" deep hole into the backup. Using a drill with the Pos-I-Tie® Chuck adapter in non-hammer mode, place the barrel end of the screw in the chuck adapter. Drill the screw into the hole.
 - 3. Dril-It® Screw: Use a standard drill with a variable clutch adjustment and a Pos-I-Tie® Chuck Adapter. Place the barrel end of the screw in the chuck adapter, and drill the screw into the structural member. (Some structural steel may require pre-drilling a pilot hole)
- B. **Pos-I-Tie® Wire Triangle Ties (non-ThermalClip® barrels)**
 - 1. Spread the triangle wire tie slightly apart and insert into the barrel screw eye and move the loop to the barrel eye. Adjust vertically to fit into the mortar joint.
- C. **Pos-I-Tie® 75TC ThermalClip®**

1. Insert the ThermalClip® tab into the Pos-I-Tie® barrel eye from the bottom. Fold over the top tab of the ThermalClip® and squeeze the clip together until you hear a distinct click of the two tabs connecting.

D. Pos-I-Tie® No. 282-N Pintle Wire Ties for ThermalClip®

1. Insert the Pintle wires into the ThermalClip® and adjust to fit into the mortar joint.

F. Pintle Stone Anchors for Pos-I-Tie® ThermalClip®

1. Insert pintles into ThermalClip® and place in stone.

G. 610 Thermal-Grip® Plastic Washers

1. Pre-spot washer to stud backup pushing the installation prongs into the insulation.
2. Drill the Pos-I-Tie® Barrel Screw through the washer into the backup.

End of Section