

SECTION 04085

MASONRY ANCHORS AND ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Masonry veneer anchors and ties.

1.2 RELATED SECTIONS

- A. Section 04810 - Unit Masonry Assemblies.

1.3 REFERENCES

NOTE: Delete references from the list below that are not actually required by the text of the edited section.

- A. TMS402/ACI530/ASCE6 – Specifications for Masonry Structures; 2013.
- B. ASTM A 153/A 153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- G. ASTM A 580/A 580M - Standard Specification for Stainless Steel Wire

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data on each type of product furnished.

PART 2 PRODUCTS

2.1 MANUFACTURER

Acceptable Manufacturer: Heckmann Building Products Inc., 1501 N. 31st Avenue,
Melrose Park, IL 60160
800-621-4140 or 708-865-2403 FAX: 708-865-2640
Email: info@heckmannanchors.com
Website: www.heckmannanchors.com.

2.2 APPLICATIONS

- A. Provide anchoring systems that comply with TMS 402/ ACI 530/ASCE 6.

B. Masonry Anchors:

1. Anchors to Concrete: **No. 75: Heckmann "Pos-I-Tie®" Concrete/CMU Screw.**
2. Anchors to Masonry Backup: **No. 75: Heckmann "Pos-I-Tie®" Concrete/CMU Screw.**
3. Anchors to Metal Stud Backup: **No. 75: Heckmann "Pos-I-Tie®" Self-Drilling Screw.**
4. Anchors to Structural Steel: **No. 75: Heckmann "Pos-I-Tie®" Dril-It® Screw.**
5. Anchors to Wood Stud Backup: **No. 75: Heckmann "Pos-I-Tie®" Concrete/CMU Screw.**

C. Pos-I-Tie® ThermalClip®:

1. One-Piece Snap-On Proprietary plastic clip for barrel loop of Original Pos-I-Tie® to create a thermal and galvanic break between the wire tie in veneer and the barrel in the backup. (Optional)

D. Masonry Ties:

1. Masonry Veneer Ties: Provide minimum 2 inches (50 mm) embedment in mortar.
 - A. Wire 3/16 inch (4.75 mm) diameter x [Length]
(Standard Lengths available are 3", 3-1/2", 4" and 4-1/2" – custom lengths are available)

Note: ** Delete all of the following types that are not required.

For use with original Pos-I-Tie® without ThermalClip®

- A. **No. 75 Pos-I-Tie® Triangle Wire Tie**
- B. **No. 75 Pos-I-Tie® Single Wire Tie**

For use with Original Pos-I-Tie® with ThermalClip®

- A. **No 282-N Pintle Wire Tie for ThermalClip®**

Other Applications: Where details or installation conditions require, provide ties fabricated of shape and size to suit conditions and provide adequate anchorage.

2. Masonry Veneer Seismic Ties: Continuous wire in mortar joint, anchored to **[Pos-I-Tie® Triangle Tie] [Pos-I-Tie® Single Wire Tie] [#282-N Pintle Wire Tie] with welded No. 370 Seismic clip.**

Note: Select one of the following 3 combinations of materials: for wire ties.

- D. Material for Ties in Exterior Walls: Stainless steel.
- E. Material for Ties in Exterior Walls: Hot-dip galvanized.
- F. Material for Ties Exposed to Air in Exterior Walls: Hot-dip galvanized.

2.3 MATERIALS

1. Barrel Materials

Heckmann "**No. 75 Pos-I-Tie®**": One-Piece Screw consisting of a 92% Zamac 2 Zinc barrel 3/8" in diameter, washer, flanged head and eye to receive Pos-I-Tie® wire tie; designed to seat barrel directly on structural portion of backup, with flanged head covering fastener hole.

1. Provide barrel shaft length [5/8 inch] [1 inch] [1-1/2 inch] [2 inch] [2-1/2 inch] [3 inch] [3-1/2 inch] [4 inch] [4-1/2 inch] and screw to suit substrate.

1. Wire Tie Materials

- A. Stainless Steel: Type 304.
 1. Wire: 3/16 inch (4.76 mm) diameter ASTM A 580/A 580M.
- B. Hot-Dip Galvanized Steel: Hot-dip galvanized after fabrication in accordance with ASTM A 153/A 153M, Class B-2.
 1. Wire: 3/16 inch (4.76 mm) diameter.

PART 3 EXECUTION

3.1 INSTALLATION

A. Pos-I-Tie® 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.
2. Concrete/CMU Screw ICF: Use a standard hammer drill and a Pos-I-Tie® Sleeve Tool with a Pos-I-Tie Chuck Adapter on the end. Set Drill to Hammer, slide off the chuck adapter sleeve and drill a 2" deep hole into the backup with a 3/16" (4.76 mm) masonry drill bit. Replace the sleeve/chuck adapter, switch the hammer mode off, and 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. ThermalClips®

1. From the underside of the barrel loop, insert the tab of the thermal clip into the barrel loop and fold until you hear the distinct “snap” of the engagement.

C. Wire Ties

1. Configure ties to prevent flow of water to anchor and to transfer lateral loads without excess mechanical play or deformation.

END OF SECTION