

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

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NOTE: Delete references from the list below that are not actually required by the text of the edited section.  
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- A. ASCE/ACI 530.1 - Specifications for Masonry Structures; 1995.
- B. ASTM A 153/A 153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 1998.
- G. ASTM A 580/A 580M - Standard Specification for Stainless Steel Wire; 1998.

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

- A. Acceptable Manufacturer: Heckmann Building Products Inc., 1501 N. 31st Avenue Melrose Park, IL 60160-2911  
Tel: 708-865-2403 Fax: 708-65-2640  
Email: Heckmann@worldnet.att.net.  
Website: www.heckmannbuildingprods.com.

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NOTE: Delete paragraph below; coordinate with Division 1 requirements.  
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- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted.

2.2 APPLICATIONS

A. Provide anchoring systems that comply with ACI 530.1/ASCE 6/TMS 602.

B. Masonry Anchors:

- 1. Anchors to Concrete: **No. 75: Heckmann "Pos-I-Tie®" Tapcon® Screw.**
- 2. Anchors to Masonry Backup: **No. 75: Heckmann "Pos-I-Tie®" Tapcon® 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®" Tapcon® Screw.**

C. 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]

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 Note: \*\* Delete all of the following types that are not required.  
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- A. **No. 75 Pos-I-Tie® Triangle Wire Tie**
- B. **No. 75 Pos-I-Tie® Single Wire Tie**
- C. **No. 75 Pos-I-Tie® Double-J Wire Tie**

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 with welded No. 370 Seismic clip.**

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 Note: Select one of the following 3 combinations of materials: for wire ties.  
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- 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.
- G. Material for Ties Completely Embedded in Mortar Joints:

Mill galvanized.

## 2.3 MATERIALS

### 1. Barrel Materials

Heckmann **"No. 75 Pos-I-Tie®"**: One-Piece Screw consisting of a 92% Zamac 2 Zinc barrel, 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] and screws 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.

#### C. Mill Galvanized Steel:

1. Wire: ASTM A 641, regular coating; 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. Tapcon® Screw: 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 drillbit. 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. Pos-I-Tie® Wires

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

END OF SECTION