

SECTION 04085

MASONRY ANCHORS AND ACCESSORIES

1 PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Masonry veneer anchors and ties.

1.2 RELATED SECTIONS

- A. Section 04200 - Unit Masonry Assemblies.

1.3 REFERENCES

- 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.
- C. 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.

2 PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer:
 - 1. Heckmann Building Products Inc.,
 - 2. Or equal.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

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 length as required by exterior wall assemblies.

No. 75 Pos-I-Tie® Triangle Wire Tie

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

b. Material for Ties in Exterior Walls: Stainless steel.

2.3 MATERIALS

A. 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 lengths of 2 ½" or as required by insulation thickness and screws to suit substrate.
2. Wire Tie Materials

a. Stainless Steel: Type 304.

- 1) Wire: 3/16 inch (4.76 mm) diameter ASTM A 580/A 580M.

3 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 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)
4. 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