

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. 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

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.

NOTE: Delete paragraph below; coordinate with Division 1
requirements.

- A. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- B. 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 or Masonry or Wood: **No. 77: Heckmann "Wing Nut Pos-I-Tie®" Concrete/CMU Screw.**
2. Anchors to Metal Stud Backup: **No. 77: Heckmann "Wing Nut Pos-I-Tie®" Self-Drilling 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]

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

1. Masonry Veneer wire ties: **No. 77 Wing Nut Pos-I-Tie® Pintle Wire Tie**

2. Masonry Veneer Seismic Ties: Continuous wire in mortar joint, anchored to **77 Wing Nut Pos-I-Tie® 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.

G. Material for Ties Completely Embedded in Mortar Joints: Mill galvanized.

2.3 MATERIALS

1. Barrel Materials

- A. Heckmann **"No. 77 Wing Nut Pos-I-Tie Barrel Screws®"**: One-Piece Screw consisting of a co-polymer coated carbon steel screw barrel, washer, and co-polymer coated screw; designed to seat barrel directly on structural portion

of backup.

- B. Heckmann **"No. 77 Wing Nut Pos-I-Tie Barrel Screws®"**: One-Piece Screw consisting of a **Stainless Steel** barrel, washer, and co-polymer coated screw; designed to seat barrel directly on structural portion of backup.

2. Barrel Lengths

(adjustable wing nut allows tightening for insulation/gypsum thickness range shown below)

- a. 2-5/8" barrel - range 1" - 1.75"
- b. 3-1/8" barrel - range 1.5" - 2.25"
- c. 3-5/8" barrel - range 2" - 2.75"
- d. 4-1/8" barrel - range 2.5" - 3.25"
- e. 4-5/8" barrel - range 3" - 3.75"

3. Wing Nut Materials

- a. Zinc Alloy Wing Nut (for co-polymer barrel)
- b. Thermal Plastic Wing Nut (for stainless and thermal conditions)

4. Wire Tie Materials

- a. Stainless Steel: Type 304 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-2.3/16 inch (4.76 mm) diameter.
- c. Mill Galvanized Steel:
 - 1. Wire: ASTM A 641, regular coating; 3/16 inch (4.76 mm) diameter.

5. Wire Tie Lengths

- a. Available in 3", 3-1/2", 4", 5" standard lengths.
- b. Custom lengths are available.

PART 3 EXECUTION

3.1 INSTALLATION

A. Wing Nut Pos-I-Tie® Screws

- 1. Self-Drilling Screw: Use a standard drill with a variable clutch adjustment and a 5/16" Hex Head Socket Driver. Place the hex nut end of the screw in the driver, drill through the insulation/gypsum board

and into the metal stud.

2. Concrete/CMU Screw: Use a standard hammer drill and pre-drill a 3/16" (4.76 mm) diameter 2" deep hole into the backup. Switch the hammer mode off and use a 5/16" Hex Head Socket Driver to drill the screw into the hole.
3. Tighten the wing nut until the washer dimples into the insulation or gypsum board.

B. Wire Ties

Place the pintle tie into the two holes of the wing nut. Tie can go above or below the screw providing a total of 2-1/2" adjustment.

END OF SECTION