

SECTION 04085

MASONRY ANCHORS AND ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES

NOTE: Delete items below not required for project.

- A. Masonry veneer anchors and ties.
- B. Stone veneer anchors and ties.
- C. Masonry accessories.

1.2 RELATED SECTIONS

- A. Section 04810 - Unit Masonry Assemblies.
- B. Section 04851 - Cut Stone Veneer.
- C. Section 04852 - Stone Masonry Veneer.

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.
- C. ASTM A 167 - Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip; 1996.
- D. ASTM A 240/A 240M - Standard Specification for Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels; 1998b.
- E. ASTM A 276 - Standard Specification for Stainless Steel Bars and Shapes; 1998b.
- F. ASTM A 479/A 479M - Standard Specification for Stainless and Heat-Resisting Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels; 1997a.
- G. ASTM A 580/A 580M - Standard Specification for Stainless

Steel Wire; 1998.

- H. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 1998.
- I. ASTM B 633 - Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel; (Reapproved 1994).

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 MANUFACTURERS

A. 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.

- 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.

Note: Select one of the following 3 combinations of materials:
all stainless steel, all hot-dip galvanized, or hot-dip galvanized except for items completely embedded in mortar.
Delete the inappropriate choices.

F. Material for Anchors and Ties in Exterior Walls:
Stainless steel.

- G. Material for Anchors and Ties in Exterior Walls: Hot-dip galvanized.
- H. Material for Anchors and Ties Exposed to Air in Exterior Walls: Hot-dip galvanized.
- I. Material for Ties Completely Embedded in Mortar Joints: Mill galvanized.

2.3 MATERIALS

A. Steel Types

- 1. Stainless Steel: Type 304.
 - A. Sheet Metal: ASTM A 167 or ASTM A 240/A 240M.
 - B. Wire: ASTM A 580/A 580M.
 - C. Bars: ASTM A 479/A 479M, annealed and ground.
 - D. Plates, Bars, and Shapes: ASTM A 167 or ASTM A 276.
- 2. Hot-Dip Galvanized Steel: Hot-dip galvanized after fabrication in accordance with ASTM A 153/A 153M, Class B-2.

B. Products

- 1. Masonry Wall Stabilizing Anchors: Anchoring top of wall to structure while allowing vertical deflection.
 - 1. Type: No. 419 Pin Type 12 gage (2.6 mm) plate with 3/8 inch (10 mm) diameter pin; plate anchored to structure overhead, pin sliding in No. 421 Plastic Tube embedded in mortar at top of wall.
 - A. Material: Hot-dip galvanized.
 - B. Material: Stainless steel.
 - 2. Type: No. 420 Cap 12 gage (2.6 mm) channel cap; attached to structure overhead.
 - A. Material: Hot-dip galvanized.
 - B. Material: Stainless steel.
 - 3. Type: No. 138-R Channel Slot Threaded Rod Anchor used with a [#130 Welded Channel Slot][#133 Continuous Welded Channel Slot] on a Structural Beam. Channel Slot Anchor 12 gage (2.6 mm) with a welded 3/8 inch (10 mm) threaded rod [length] from channel, pin sliding in No. 421 Plastic Tube embedded in mortar at top of wall.
 - A. Material: Hot-dip galvanized.
 - B. Material: Stainless steel.
 - 4. Type: No. 138 Channel Slot Flat Anchor used with a [#130 Welded Channel Slot][#133 Continuous Welded Channel Slot] on a Structural Beam. Channel Slot Anchor 12 gage (2.6 mm) x 1-1/4 inch (mm) wide

x[length] from channel, sliding in No. 422 Plastic Rectangle Tube embedded in mortar at top of wall.
A. Material: Hot-dip galvanized.
B. Material: Stainless steel.

5. Type: No. 121 Dovetail Threaded Rod Anchor used with a No. 100 Dovetail Slot built in to Top Slab. Dovetail Anchor 12 gage (2.6 mm) with a welded 3/8 inch (10 mm) threaded rod [length] from face of Top Slab, pin sliding in No. 421 Plastic Tube embedded in mortar at top of wall.
A. Material: Hot-dip galvanized.
B. Material: Stainless steel.

6. Type: No. 109 Dovetail Flat Anchor used with a No. 100 Dovetail Slot built in to Top Slab. Dovetail Anchor 12 gage (2.6 mm) x 1 inch (25 mm) wide x [length] from face of Top Slab, sliding in No. 422 Plastic Rectangle Tube embedded in mortar at top of wall.
A. Material: Hot-dip galvanized.
B. Material: Stainless steel.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install as specified in applicable masonry section(s).

END OF SECTION