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BRICK VENEER ANCHOR SPECIFICATION

NOTE: For Specification of Pos-I-Tie® brick veneer system see
it's own **Pos-I-Tie® Specification** page.
For Systems with Dovetail Slots as backup see **Dovetail
Specificalitons** page.
For Systems with Channel Slots as backup see **Channel Slot
Specifications** page.

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., 4015 West Carroll Avenue, Chicago, IL 60624. ASD. Tel: (773) 826-8564. Fax: (773) 826-4919. Email: Heckmann@worldnet.att.net. Website: www.heckmannbuildingprods.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: Delete the following items not needed for your project

B. One Piece Anchors

1. **186 BRICK VENEER ANCHOR (NO HOLE)**

[gage] x [width] x [length] x [bend length]

2. **187 HOLE-TYPE BRICK VENEER ANCHOR**

[gage] x [width] x [length] x [bend length]

3. **188 SLOTTED TYPE BRICK VENEER ANCHOR**

[gage] x [width] x [length] x [bend length]

4. **103-C DOVETAIL TRIANGULAR VENEER ANCHOR**

12 gage clip with 5/16 inch diameter hole x [triangle tie length]

5. **260 CORRUGATED WALLTIE**

[gage] x [width] x [length]

NOTE: The following anchors are one part of a two-part system - the part that attaches to the backup or structure. These anchors are suitable for masonry veneer, stone, and other claddings. Be sure, if any of these are used, that the second part - the tie or other attachment to the cladding - is also specified. Delete the types not required. If more than one type for a particular application is required, be sure to indicate where each is to be used.

C. Masonry Anchors:

1. Anchors to Stud Backup Screw-on anchor straps or plates allowing vertical movement of tie; minimum of 2 screws:

No. 315-C SCREW-ON ANCHOR STRAP

12 gage x [3/4 inches wide (19 mm) x 9 inches (229 mm) long] or [7/8 inches wide (22 mm) x 6-1/2 inches (165 mm) long]

NO. 315-D SCREW-ON ANCHOR PLATE

[12][14][16] gage x 1-1/4 inches wide (32 mm) x 6 inches (152 mm) long

NO. 317-C CONTINUOUS WELD-ON ANCHOR STRAP

12 gage x 3/4 inch (19.05 mm) wide x 8 feet (2.44 m) with six 3/8 inch (9.53 mm) offsets and 1/4 inch (6.35 mm) holes.

NO. 213 WIRE VENEER ANCHOR SYSTEM (PLATE)

14 gage for [no insulation][1 inch (25 mm) insulation][1-1/2 inch (38 mm) insulation][2 inch (51 mm) insulation]

2. Anchors to Structural Steel - weld on anchor straps allowing vertical movement of ties:

NO. 315 WELD ON ANCHOR ROD

1/4 inch (6.35 mm) diameter x 9 inch (229 mm) long.

NO. 315-B WELD ON ANCHOR STRAP

12 gage x [3/4 inches wide (19 mm) x 9 inches (229 mm) long] or [7/8 inches wide (22 mm) x 6-1/2 inches (165 mm) long]

NO. 317 CONTINUOUS WELD-ON ANCHOR ROD

1/4 inch (6.35 mm) diameter x 8 feet (2.44 m) with six 3/8 inch (9.53 mm) offsets.

NO. 317-B CONTINUOUS WELD-ON ANCHOR STRAP

12 gage x 3/4 inch (19.05 mm) wide x 8 feet (2.44 m) with six 3/8 inch (9.53 mm) offsets.

NO. 320 WELD ON CLIP

14 gage x 1 inch (25 mm) high x 1-1/4 inch (32 mm) wide

3. Anchors to Block Backup:

No. 262 DOUBLE EYE ROD ANCHOR

3/16 inch (4.76 mm) diameter x [width] x [length].

NOTE: The following masonry ties must be used with one or more of the anchor types listed above from section C.

D. Masonry Veneer Seismic Ties: Continuous wire in mortar joint, anchored to one of the following:

1. For Use with Strap Anchors:

NO. 316 TRIANGLE WIRE TIE

3/16 inch (4.76 mm) diameter, with welded on **NO. 370 SEISMIC HOOK TAB**, 16 gage (1.5mm).

2. For Use as a One-Piece Brick Veneer Anchor:

NO. 360 L-TYPE SEISMIC ANCHOR

[gage] x [width] x [length] x [bend length] with [diameter] centered hole in bend. Seismic tab located [length] from end of anchor.

D. Masonry Veneer Ties: Provide minimum 2 inches (50 mm) embedment in mortar.

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

1. For Use With Strap Anchors:

NO. 316 TRIANGLE WIRE TIE.

3/16 inch (4.76 mm) diameter x [length]

NO. 314 TIE CLIP

[3/16 inch 4.76 mm]][1/4 inch (6.35 mm)] diameter x 2 inches (51 mm) wide x [3 inch (76 mm)][4 inch (102 mm)][5 inch 127 mm)][6 inch (152 mm)] long

2. For Use With #262 Masonry Anchor:

NO. 263 DOUBLE PINTLE WIRE TIE, 3/16 inch (4.76 mm) diameter x [width] x [length].

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.
3. Electro-Galvanized Steel: Electro-galvanized after fabrication in accordance with ASTM B 633, Service Condition 1.
 - A. Wire: Minimum 3/16 inch (4.76 mm) diameter.
4. Mill Galvanized Steel:
 - A. Sheet Metal: ASTM A 653/A 653M, G60 coating.
 - B. Wire: ASTM A 641, regular coating; minimum 3/16 inch (4.76 mm) diameter.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install as specified in applicable masonry section(s) and in accordance with manufacturer's instructions.

END OF SECTION