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## CONCRETE ANCHORS

Acceptance of concrete anchors shall be on the basis of certification from an approved manufacturer and approved brand names. Approval of concrete anchors shall be based on pullout loads. Allowable loads shall not exceed 1/3 of maximum pullout loads.

When galvanized anchors are specified, zinc coating shall be applied by either hot dipped galvanizing to meet the requirements of ASTM A153, Class C or mechanically galvanized to meet the requirements of ASTM B695, Class 50 Type 1.

Approved manufacturers, approved brand names and the pullout loads for each brand is listed in Appendix A. Pull-out test loads shall be tested by an independent laboratory in accordance with ASTM E488, tension (pull-out) test, using concrete with compressive strength of approximately 4000 psi.

Appendix B contains manufacturer brochures of individual approved brand names listing installation instruction, anchor sizes, embedment depth, spacing requirements, edge distance required to obtain maximum pull-out (working) loads, etc.

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Appendixes A & B are divided into sections as to manufacturers and brand names as listed below:

**1. HILTI, INC.**

Anchor Type: Kwik Bolt II Carbon Steel Stud Anchor, Kwik Bolt II AISI 304 & 316 Stainless Steel Stud Anchor, HDI Flush Anchor Drop-In, HDI Stainless Steel Flush Anchor Drop-In, HILTI HVA Adhesive Anchor with HAS Rods, HSL Metric Heavy-Duty Expansion Anchor

**2. ITW RAMSET/RED HEAD ANCHORS**

Anchor Type: Carbon and Stainless Steel Trubolt Wedge, Carbon and Stainless Steel Dynabolt Sleeve (Hex Nut Head Style), Carbon Steel Multi-Set II Drop-In, Self-Drill, Stud Anchor, Non-Drill, A7 Acrylic Adhesive Anchoring System

**3. POWERS FASTENERS, INC.**

Anchor Type: Carbon Steel Flat Head Rawl-Bolt, Stainless Steel Hex Head Rawl-Bolt, Stainless Steel Rawl-Stud, Rawl Lok/Bolt, Rawl Multi-Calk, AC 100 Plus Epoxy Acrylate System

**4. STAR EXPANSION COMPANY**

Anchor Type: Drop-Grip Anchor, Steel Anchor, Wedge-Grip Anchor

**5. WEJ-IT**

Anchor Type: Ankr-Tite Stud Anchor, Sleeve Anchor (Hex Nut Head, Rod Coupling Head), Drop-In Anchor, Chemical Mortar Cartridge

**6. U.S. ANCHOR CORPORATION**

Anchor Type: Kingpin Wedge Anchor

**7. CEB CORPORATION**

Anchor Type: Wedge Stud, Interplug Drop-In Anchors

**8. SIMPSON STRONG-TIE COMPANY, INC.**

Anchor Type: Drop-In Anchor, Polly-All Epoxy Anchoring System, Wedge-All Stud Anchor

**9. COBRA ANCHORS CORPORATION**

Anchor Type: Parabolt Concrete Anchors

**10. GLOBAL DISTRIBUTING, INC.**

Anchor Type: Sanco All Anchor T Type, Y Type, C Type, CS Type, CT Type

**11. DFS/USA DIVERSIFIED FASTENING SYSTEMS, INC.**

Anchor Type: All American Anchor, DFS Wedge Anchor