



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 pull-out loads. Allowable loads shall not exceed 1/3 of ultimate 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 3 Carbon Steel Stud Anchor with electroplated zinc coating or with hot-dip galvanized coating, Kwik Bolt 3 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