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RESEARCH REPORT: RR 25887  
(CSI # 03153)

BASED UPON ICC EVALUATION SERVICE  
REPORT NO. ESR-2823

REEVALUATION DUE DATE:

January 1, 2012

Issued Date: January 1, 2011

Code: 2011 LABC

**GENERAL APPROVAL - Deformed Bar Anchors**

**DETAILS**

The above assemblies and/or products are approved when in compliance with the description, use, identification and findings of ICC Evaluation Services Report No. ESR-2823 issued December 1, 2009, of the ICC Evaluation Service, Incorporated. The report in its entirety is attached and made part of this general approval.

The parts of Report No. ESR-2823 which are excluded on the attached copy have been removed by the City of Los Angeles Building and Safety Department as not being included in this approval.

**The approval is subject to the following conditions:**

1. Use of the anchors is limited to installation in uncracked concrete and non seismic applications
2. Use of the anchors subjected to fatigue, shock, or vibratory loads is not covered under this approval

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3. Allowable tension and shear loads, for 3/8" and 1/2" anchors, given on Table 1 and Table 2, respectively, of the ICC-ES Evaluation Report ESR 2823 are valid when the anchors are installed in normal weight concrete having a minimum concrete strength of 3,000 psi
4. Allowable tension and shear loads, for 5/8" and 3/4" anchors, given on Table 1 and Table 2, respectively, of the ICC-ES Evaluation Report ESR 2823 are valid when the anchors are installed in normal weight concrete having a minimum concrete strength of 5,000 psi
5. Continuous inspection by Deputy Inspectors shall be provided during installations of the Deformed Bar Anchors in accordance with Section 1704 of the 2011 Los Angeles City Building Code.
6. Deformed Bar Anchors locations shall be fully detailed on the plans and approved by Plan check engineer. The calculations for Deformed Bar Anchors shall be prepared by a Civil or Structural Engineer registered in the State of California.
7. The fabricator, in processing steel for the Deformed Bar Anchors through his works, shall maintain identity of the material and shall maintain suitable procedures and records attesting that the specified grade has been furnished in conformity with the applicable ASTM Standard. The ASTM or other specification designation shall be included near the erection mark on each shipping assembly or important construction component over any shop coat of paint prior to shipment from the fabricator's plant. The fabricator's identification mark system shall be established and on record prior to fabrication.
8. Steel which is not readily identifiable as to grade from marking and test records shall be tested to determine conformity to such standard. The fabricator shall, when requested, furnish an affidavit of compliance with such standard. Test data shall be provided upon request.
9. Except as specified herein, installation of the Deformed Bar Anchors shall be in accordance with the manufacturer's specifications. A copy of the specifications shall be provided at the job site and be made available to all Deputy Inspectors on the job.

## **DISCUSSION**

This report is in compliance with the 2011 Los Angeles City Building Code.

The approval is based on data in accordance with applicable sections of the ICC ES Acceptance Criteria for Fiber-Reinforced Composite Connectors Anchored in Concrete (AC 320), dated June 2006 (corrected April 2008) including ASTM E 488; Mechanical Anchors in Concrete Elements (AC 193), dated February 2009; and AWS D1.1-2004 and ASTM A 496.

Tru-Weld Division, TFP Corporation  
RE: Deformed Bar Anchors

This general approval will remain effective provided the Evaluation Report is maintained valid and unrevised with the issuing organization. Any revision to the report must be submitted to this Department for review with appropriate fee to continue the approval of the revised report.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

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Attachment: . ICC ES Report No. ESR-2823 (3 Pages)