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RESEARCH REPORT: RR 25849  
(CSI # 03 16 00)

BASED UPON ICC EVALUATION SERVICE  
REPORT NO. ESR-2583

REEVALUATION DUE  
DATE: February 1, 2015  
Issued Date: March 1, 2013  
Code: 2011 LABC

**GENERAL APPROVAL** – Reevaluation-Powers PE1000+ Epoxy Adhesive Anchor System in Cracked and Uncracked Concrete.

**DETAILS**

The above assemblies and/or products are approved when in compliance with the description, use, identification and findings of Evaluation Report No. ESR- 2583, dated December 1, 2011, revised March 2012, of the ICC Evaluation Service, Incorporated. The report, in its entirety, is attached and made part of this general approval.

The parts of Evaluation Report No. ESR-2583 marked by an asterisk are modified or deleted by the Los Angeles City Building Department from this approval.

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

1. The allowable and strength design values listed in the attached report and tables are for the fasteners only and do not include the supporting members. The supporting members shall be checked for structural adequacy.
2. The anchors with 1 inch, and 1-1/4 inch diameter and No. 8 through No. 10 steel reinforcing bars are limited to installation in uncracked concrete.
3. When installing anchors larger than 1/2" diameter or larger than #4 bar in horizontal or overhead direction, the anchors shall be fixed in the hole by wood wedges.

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4. The anchors shall be identified by labels on the packaging indicating the manufacturer's name and product designation.
5. Design information, edge distance, spacing and minimum embedment requirements shall be per Tables in ICC-ES Report No. ESR-2583.
6. Special inspection in accordance with Section 1704 of the 2011 Los Angeles City Building Code shall be provided for anchor installations.
7. The anchors shall be installed as per the attached manufacturer's instructions except as otherwise stated in this report. Copies of the installation instructions shall be available at each job site.
8. The adhesive anchors shall not be used to support fire-resistive construction, except when meeting the conditions specified in Sec.5.12 of ICC-ES Report No. ESR-2583.
9. Minimum concrete cover per Chapter 7 of the ACI 318-08 shall be followed whenever applicable.
10. The anchors are not approved for unreinforced masonry walls.

## **DISCUSSION**

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

The approval is based on load tests in accordance with ICC-ES Acceptance Criteria for Post Installed Adhesive Anchors in Concrete (AC 308).

This general approval will remain effective provided the Evaluation Report is maintained valid and unrevised with the issuing organization. Any revisions to the report must be submitted to this Department, with appropriate fee, for review in order 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.

Powers Fasteners, Inc.

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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.

Powers Fasteners offers software to assist in the design of anchorages using Powers Fasteners products. The software "PDA Powers Design Assist" includes selectable Strength Design methodology utilizing ICC-ES AC308-compliant data to generate designs in conformance with the 2008 Los Angeles City Building Code. The PDA Software may be downloaded at [www.Powers.com](http://www.Powers.com).

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Attachments: ICC ES Evaluation Report No. ESR-2583 (15-pages)