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Simpson Strong-Tie Co., Inc.
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Attn: Jason M. Oakley, P.E.
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RESEARCH REPORT: RR 25741
(CSI # 03 16 00)

BASED UPON ICC ES EVALUATION
REPORT NO. ESR-2713

REEVALUATION DUE
DATE: December 1, 2017
Issued Date: April 1, 2017
Code: 2017 LABC

GENERAL APPROVAL – Clerical Modification - Titen HD[®] Screw Anchor and Titen HD[®] Rod Hanger for Cracked and Un-cracked Concrete.

DETAILS

The above assemblies and/or products are approved when in compliance with the uses, description, design, installation, conditions of use and identification of ICC Evaluation Service Report No. ESR-2713, reissued September 1, 2016, of the ICC Evaluation Service, LLC. The report in its entirety is attached and made part of this general approval.

The parts of Report No.ESR-2713 which are excluded on the attached copy have been removed by the Los Angeles Building as not being included in 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. Connected members shall be checked for their capacity (which may govern).
2. The anchors shall be identified by labels on the packaging indicating the manufacturer's name and product designation.
3. 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.

RR 25741
Page 1 of 3

Simpson Strong-Tie Co., Inc.

Re: Titen HD® Screw Anchor and Titen HD® Rod Hanger for Cracked and Un-cracked Concrete.

4. Design values and minimum embedment requirements shall be per the Tables in ICC ES Report No. ESR-2713.
5. Anchor spacing and edge distance, as well as minimum member thickness, must comply with Tables 1, 4 and 5 and Figures 3, 4, 5 and 6, of the attached ESR-2713.
6. Special inspection in accordance with Section 1705 of the 2017 Los Angeles City Building Code shall be provided for anchor installations.
7. The use of anchors is limited to dry, interior locations.
8. Calculations demonstrating that the applied loads or factored loads are less than the allowable load values or design strength level values respectively, described in this report shall be submitted to the plan check Engineer at the time of permit application. The calculations shall be prepared by a Civil or Structural Engineer registered in the State of California.

EXCEPTION: Anchors used for the installation of mechanical, plumbing and electrical equipment may be designed and detailed on a plan prepared by an engineer licensed by the state of California.

DISCUSSION:

The clerical modification is to update the report to the 2017 Los Angeles City Building Code. The report is in compliance with the 2017 Los Angeles City Building Code.

The approval is based on tests in accordance with ICC-ES Acceptance Criteria for Mechanical Anchors in Concrete Elements (AC193).

The anchors have been tested in accordance with ACI 355.2-04 and AC193 for static and dynamic loads.

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

Addresses 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.

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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.

Simpson Strong-Tie offers software to assist in the design of anchorages using Simpson Strong-Tie products. The software "Anchor Designer for ACI-318" includes selectable Strength Design methodology utilizing ICC-ES AC193-compliant data to generate designs in conformance with the 2014 Los Angeles City Building Code.

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Attachment: ICC-ES Evaluation Report No. ESR-2713 (12 pages)