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RESEARCH REPORT: RR 25901
(CSI #03 16 00)

BASED UPON ICC EVALUATION SERVICE
REPORT NO. ESR-2302

REEVALUATION DUE
DATE: April 1, 2020
Issued date: April 1, 2018
Code: 2017 LABC

GENERAL APPROVAL – Reevaluation – Hilti Kwik Bolt 3 (KB3) Concrete Anchors.

DETAILS

The above products/assemblies are approved when in compliance with the use, description, design, identification and conditions of use of Report No. ESR-2302, reissued December 2017, of the ICC Evaluation Service, LLC. The report, in its entirety, is attached and made a part of this general approval.

The parts of Report No.ESR-2302 marked by the asterisks are modified by the Los Angeles Building Department from this approval.

The approval is subject to the following conditions:

1. The fasteners shall not be used in cracked concrete.
2. The Kwik Bolt 3 shall not be used to resist seismic loads. The stress increases described in Section 1605.3.2 of the 2017 LABC are not allowed for wind loads acting alone or when combined with gravity loads. No increase is allowed for gravity loads acting alone.

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3. Submit calculation to demonstrate that the applied loads are less than the allowable loads described in this report. Calculation must be reviewed and approved by the structural plan check engineer. Calculations must be prepared, sealed and signed 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.

4. The design loads listed in the attached report and tables are for the anchor bolts only. Connected members shall be checked for their capacity (which may govern).
5. The concrete shall have attained its minimum design strength prior to installation of the anchors.
6. Kwik Bolt 3 installed through the underside of steel deck at the ribs and into minimum 3000 psi lightweight concrete shall have minimum edge distance of 7/8" from the edge of the deck ribs and 6" from the end of the deck. Concrete fill above top ribs shall be a minimum of 2 1/2 inches.
7. Kwik Bolt 3 shall be installed per the manufacturer's instructions, a copy of which shall be available at each job site.
8. Use of 5/8" Kwik Bolt 3 is limited to dry interior locations.
9. All Kwik Bolt 3 are identified by an "H" imprinted on the fastener head. Where applicable the word "Hilti" is stamped on the steel washers. All fasteners are packaged in containers noting the fastener type, size, manufacturer's name, and evaluation report number (ESR-2302).

DISCUSSION

The report is in compliance with the 2017 City of Los Angeles Building Code.

The approval is based on tests in accordance with ICC ES Acceptance Criteria for Mechanical Anchors in Concrete Elements (AC 193), dated October 2015.

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.

HILTI, 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.

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Attachments: ICC ES Report No. ESR-2302 (12 Pages).