

# CITY OF LOS ANGELES

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RESEARCH REPORT: RR 26042  
(CSI #031600)

BASED UPON ICC-ES EVALUATION  
REPORT NO. ESR-3657

REEVALUATION DUE

DATE: May 1, 2019

Issue Date: August 1, 2017

Code: 2017 LABC

**GENERAL APPROVAL** – Technical Modification – Powers Wood-Knocker and Wood-Knocker II+ Concrete Inserts and Bang-It Concrete Inserts for Steel Deck in Cracked and Uncracked Concrete.

## DETAILS

The above assemblies and/or products are approved when in compliance with the use, description, design, installation, conditions of approval, and identification of Evaluation Report No. ESR-3657 reissued December 2016, revised May 2017 of the ICC-ES Evaluation Services, LLC. The report, in its entirety, is attached and made part of this general approval.

The parts of the ES Report, ESR-3657, which are excluded on the attached copy have been removed by the Los Angeles Building Department as not being included in this approval.

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

1. Plans, details and calculations shall be prepared by a Civil or Structural Engineer, licensed by the State of California.
2. The concrete tension and shear capacity of the concrete inserts shall be calculated in accordance with ACI 318-14 Chapter 17, with the design values specified in Table 2

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RE: Wood-Knocker and Wood-Knocker II+ Concrete Inserts and Bang-It Concrete Inserts

and 3 of the attached ESR-3657. The threaded rod or concrete capacity may govern the overall connection capacity.

3. Wood-Knocker, Wood-Knocker II+ and Bang-It anchors shall only support non-structural components.

## DISCUSSION

The technical modification is to recognize Wood Knocker II+ concrete inserts as part of this general approval.

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

The approval is based on tests and analyses in accordance with ICC-ES Acceptance Criteria for Headed Cast-In Specialty Inserts in Concrete (AC 446), dated February 2015, editorially revised January 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.

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 Evaluation Report No. ESR-3657 (13 Pages).