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RESEARCH REPORT: RR 25623  
(CSI 06 05 23)

BASED UPON ICC EVALUATION SERVICE  
REPORT NO. ESR-2190

REEVALUATION DUE  
DATE: August 1, 2019  
Issued Date: September 1, 2017  
Code: 2017 LABC

**GENERAL APPROVAL** –Reevaluation - Cinch Nut™ Shrinkage Compensation Device:  
Models CNX3, CNX4, CNX5, CNX6, CNX7, CNX8, CNX9, CNX10, CNX11, and CNX12.

## **DETAILS**

The above products are approved when in compliance with the use, description, design, installation, conditions of use, and identification of Report No. ESR-2190, reissued June 2016, revised January 2017 by 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-2190 marked by the asterisks are modified by the Los Angeles City Department of Building and Safety from this general approval.

**The use of Cinch Nut Shrinkage Compensation Device as part of the Continuous –Tie Down Bearing Plate System is subject to the following conditions:**

1. For each shipment, the manufacturer shall furnish a certificate indicating that the hardware complies with the manufacturer's specifications.

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2. Complete design calculations shall be submitted to the Structural Plan Check for each tie-down system installation. Plans and calculations shall bear the stamp and signature of a California registered civil or structural engineer. Calculations must consider:
  - a. The rod elongation and shrinkage compensating device deflection in section 5.8 of ESR-2190.
  - b. Bearing plate value per Code, consider wood bearing capacity of the net area and plate bending.
  - c. Wood post shall be designed for combined stresses at the critical net section and for compression parallel and perpendicular to grain.
  - d. The Code allowable value of anchor bolt and tension rod.
3. The allowable load values have included 1/3 increase, no further increase for short duration loading, such as wind and seismic is permitted.
4. The CN shrinkage compensation device shall be installed in a manner that assures shrinkage at all floors will be accounted for.

## **DISCUSSION**

The clerical modification is to update to 2017 Los Angeles Building Code.

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

This approval is based on tests in accordance with the ICC-ES Acceptance Criteria for Shrinkage Compensating Devices (AC316), dated June 2013 revised March 2015.

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.

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

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Department, with appropriate fee, for review in order to continue the approval of the revised report.

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.

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.

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Attachment: ICC ES Evaluation Service Report No. ESR-2190 (6 Pages).