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RESEARCH REPORT: RR 25011
(CSI #03 21 00)

BASED UPON ICC EVALUATION SERVICE
REPORT NO. ESR-2299

REEVALUATION DUE
DATE: August 1, 2018
Issued Date: October 1, 2017
Code: 2017 LABC

GENERAL APPROVAL – Clerical Modification - BPI-Grip XL, Taper Threaded Grip-Twist and Position Taper Threaded Grip-Twist Systems for Connecting Steel Reinforcing Bars.

DETAILS

The above assemblies and/or products are approved when in compliance with the use, description, design, installation, conditions of use, and identification of Evaluation Report No. ESR- 2299, reissued July 1, 2015, revised August 1, 2017 of the ICC-ES Evaluation Services, Incorporated. The report, in its entirety, is attached and made part of this general approval.

BPI-GRIP SYSTEM

1. The BPI-Grip Sleeve is limited to splicing #18, #14, #11, #10, #9, #8, #7, #6, #5 and #4 deformed reinforcing bars conforming to ASTM A615, A616 or A706. BPI-Grip Threaded Coupler is limited to splicing #18, #14, #11, #10, #9, #8, #6 and #5 deformed reinforcing bars conforming to ASTM A615, A616 or A706.

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GRIP-TWIST SYSTEM

1. The Grip-Twist Couplers shall be identified. Identification is provided by a code which identifies the rebar size, the coupler type, and the heat number of the steel from which they were made. The code is stamped on each coupler.
2. The reinforcing bars used with the coupler shall be Grade 60 (60 ksi yield point) and shall be made limited to #3 through #11, #14, and #18 bar sizes.

GENERAL

1. Swaging the sleeves of the coupler onto the reinforcing shall be done under continuous inspection provided by a Registered Deputy Inspector. Special inspection is also required for splicing per Section 4.5 of ICC report.
2. Only qualified operators completely familiar with the installation procedures and specifications shall perform the splicing operation. A representative of the manufacturer should be at each job site at the start of the job.
3. Installation of the coupler (threading the sleeve pairs together) shall be done in accordance with the manufacturer's instructions, a copy of which shall be available at each job site.
4. Splice to be installed shall be selected at the job site by the Registered Deputy Inspector or the Building Inspector and shall be tested by a Los Angeles City Approved testing agency. The test shall be conducted on each different reinforcing bar size and the frequency of tests shall be as follows:

- 1 out of the first 10 splices.
- 1 out of the next 90 splices.
- 1 out of the next 100 splices.

Splices shall develop in tension or compression, as required, at least 125 percent of the specified yield strength of the bar. In addition, splices identified as Type 2 shall develop 100 percent of the specified tensile strength, f_u , of the reinforcing bar.

5. If failure of the tested splice should occur prior to obtaining 125-percent of specified yield strength and 100-percent of specified tensile strength (for Type 2 couplers only), then 25-percent of all couplers shall be tested.

If failure of the tested splice occurs with testing of the 25-percent requirement, as stated above, then all couplers shall be rejected.

BarSplice Products, Incorporated
RE: BPI-Grip XL, Taper Threaded Grip-Twist and Position Taper Threaded Grip-Twist Systems
for Connecting Steel Reinforcing Bars.

6. Location of splices shall be indicated on the approved building permit plans.
7. Requirements in the Code for concrete cover and space between bars shall be applicable to the coupler sleeves at the splices.

DISCUSSION

The clerical modification is to update the report to the 2017 City of Los Angeles Building Code.

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

The approval is based on ICC-ES Acceptance Criteria (AC133).

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 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.

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QN
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ACI318-14 section 25.5.7.1 and 18.2.7.4

Attachment: ICC ES Report No. ESR-2299 (6 Pages)