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RESEARCH REPORT: RR 24507
(CSI# 03210)

BASED UPON IAPMO EVALUATION SERVICES
REPORT NO. 0129

REEVALUATION DUE:
DATE: August 1, 2019
Issued Date: March 1, 2018
Code: 2017 LABC

GENERAL APPROVAL – Technical Modification- LENTON® Reinforcing Steel Couplers, LENTON® FORM SAVER Assemblies, LENTON® LOCK and LENTON® INTERLOK.

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. 0129, dated February 2009, revised November 09, 2017, of the IAPMO Evaluation Services. The report, in its entirety, is attached and made part of this general approval subject to the following conditions:

The parts of Evaluation Report No. 0129 marked with an asterisk have been deleted or revised by the Los Angeles City Building Department from this approval.

The approval is subject to the following conditions:

1. Continuous inspection by Deputy Inspectors shall be provided during installations of the couplers per Chapter 17 of the 2017 Los Angeles Building Code.

In addition to the normal duties, the Deputy Inspector shall:

- a) Verify the hardware and equipment.
- b) Verify the cleaning and condition of the bars in accordance with the specifications and the requirements herein.

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- c) Verify the installation procedures in accordance with the specifications and the requirements herein.
2. Splices 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 tests 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.

3. If failure of the tested splice should occur prior to obtaining 125-percent of specified yield strength, 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.

4. The fabricator, in processing steel for the LENTON® couplers and LENTON® FORM SAVER (ASTM 576 grade designation AISI C1117) through his works, shall maintain identity of the material and shall maintain suitable procedures and records attesting that the specified grade has been furnished in conformity with the applicable UBC Standard. The ASTM or other specification designation shall be included near the erection mark on each shipping assembly or important construction component over any shop coat of paint prior to shipment from the fabricator's plant. The fabricator's identification mark system shall be established and on record prior to fabrication.

Steel which is not readily identifiable as to grade from marking and test records shall be tested to determine conformity to such standard. The fabricator shall, when requested, furnish an affidavit of compliance with such standard. Test data shall be provided upon request.

5. Only qualified operators completely familiar with the installation procedures and specifications shall perform the splicing.
6. Except as specified herein, installation of the splices shall be in accordance with the manufacturer's specifications. A copy of the specifications shall be provided at the job site and be made available to all Deputy Inspectors on the job.
7. Splice locations shall be fully detailed on the plans.

DISCUSSION

The technical modification is to recognize LENTON INTERLOK® HY15LM grout and additional sizes for LENTON INTERLOK couplers – LK series 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 load test in accordance with ICC-ES Acceptant Criteria for Mechanical Connector Systems for Steel Reinforcing Bars (AC133), dated October 2015.

The testing facility at ERICO meets ICC-ES AC 85 requirements for laboratory facilities as certified by Stork-Herron Testing Laboratories Inc.

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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Attachment: IAPMO Report No. 0129 (19 Pages)