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R & B Reinforcing Steel Corp.
13581 Fifth Street
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RESEARCH REPORT: RR 25911
(CSI # 03100)

Attn: David McDaniel
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Expires: July 1, 2016
Issued Date: June 1, 2014
Code: 2014 LABC

GENERAL APPROVAL – Renewal-Resistance Welding on A706 for Pre-Assembled Beam or Column Stirrup Steel Cages.

DETAILS

Resistance Welding is a process developed using a combination of pressure and heat generated by electric impulses. The process is in accordance with ASTM A 497-07. The Schnell IDEA machine is designed to precisely space each individual beam or column stirrup allowing for the resistance welding of a holding wire longitudinal along the beam or column stirrups. There are a total of three holding wires (W5 smooth round conforming to ASTM A 82) that are resistance welded to the A706 beam or column stirrups.

The approval is subject to the following conditions:

1. The structural design of steel reinforcement shall be in accordance with Chapter 19 of the 2014 Los Angeles City Building Code.
2. Fabrication of pre-assembled steel cages shall be in a shop of a fabricator licensed by the City of Los Angeles Building Department, in accordance with the Manufacturing Standards submitted to the Department.
3. When steel cages are shipped to job sites, a copy of the rebar certificate from the mill and a copy of welding test report from an approved test lab shall be provided. The welding test is not for the weld itself, but to make sure that the weld did not damage the rebar.

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Re: Resistance Welding on A706 for pre-assembled beam or column stirrup steel cages

4. The use of the Pre-Assembled Beam or Column Stirrup Steel Cages shall not be permitted unless authorized by the licensed design professional in charge of the design of the structure.

DISCUSSION

Condition number 4 was added to include the code requirement contained in section 7.5.4 of the 2011 edition of ACI 318 which is adopted by reference in the 2014 Los Angeles Building Code.

This report is in compliance with the 2014 City of Los Angeles Building Code.

The approval is based on rebar test.

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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JD:jd
RR25911/MSWord2010
R05/22/14
2F1/ACI 318, 7.5.4/21.1.7.2