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RESEARCH REPORT: RR 25722

Attn: Eugene Gutierrez
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Expires: August 1, 2013
Issued Date: July 1, 2011
Code: 2011 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 497-97. The Schnell IDEA 12/25 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. The Schnell IDEA 12/25 Machine has the capabilities to resistance weld the following types of holding wires: W 5 or W 6.5 smooth round ASTM A-82. There are a total of three holding wires 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 2011 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 weld itself, but to make sure that the weld did not damage the rebar.

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Central Reinforcing Corporation

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

DISCUSSION

The report is in compliance with the 2011 Los Angeles City 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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