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Attn: Richard Rodgers
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RESEARCH REPORT: RR 25038

BASED UPON ICC EVALUATION SERVICE
ES REPORT NO. ESR-1169

REEVALUATION DUE

DATE: June 1, 2018

Issued: August 1, 2017

Code: 2014 LABC

GENERAL APPROVAL – Reevaluation and Clerical Modification – New Millennium Steel Floor and Roof Deck Panels.

DETAILS

The above panels are approved in compliance with the use, description, design, installation, conditions of approval, and identification of ICC-ES Report no. ESR-1169, reissued June 1, 2017, of the ICC Evaluation Service, Incorporated. The report, in its entirety, is attached and made part of this general approval.

The parts of Report No.ESR-1169 marked by the asterisks are deleted or revised by the Los Angeles Building Department from this approval.

The approval is subject to the following conditions:

1. A civil or structural engineer licensed by the State of California must analyze the stresses in the decks due to actual loads using the section properties contained in the attached tables.
2. The deck units for each job shall be identified with the manufacturer's name and deck designation. The material thickness and amount of galvanizing shall also be indicated.
3. When requested by the Department, test data by the mill or by an approved testing agency shall be submitted to verify the deck material conforms to the specifications.

RR 25038
Page 1 of 3

New Millennium Building Systems (NMBS)

RE: New Millennium Steel Floor and Roof Deck Panels

4. Calculations and details demonstrating that the loads applied to the decks comply with this report shall be submitted to Structural Plan Check for review and approval. Calculations and drawings shall be prepared, signed, and sealed by a California licensed engineer.
5. Any change of deck units from those specified on the approved plans shall be approved by the design engineer of the building and by the Structural Plan Check. The proprietary nature of the data in this report precludes their use for deck units by other manufacturers. Therefore, when the deck units are changed, the design data and the construction details shall be obtained from a research report issued to the manufacturer of the deck units to be used.
6. Continuous inspection by Department of Building and Safety registered deputy building inspectors shall be provided for the placement of the concrete topping and for the welding of the deck units for diaphragms.
7. Concrete must extend a minimum of 2 inches above the top surface of the steel deck panel.
8. The allowable tension (uplift) load for arc spot welds fastening steel sheets to supporting members must be calculated in accordance with Section E2.2.2 of AISI NASPEC (and AISI/COS/NASPEC-SUP 04).
9. Concrete must be reinforced with minimum 6x6 W1.4 x W1.4 Steel welded wire reinforcement complying with ASTM A185 placed at the approximate center of the concrete fill.
10. The deck units shall be galvanized where exposed to weather.
11. Concrete fill must be in contact with the galvanized surface and painted surface on the underside.
12. Concrete-filled sections must not be used for primarily vibratory loads.
13. When used as roof covering, panels must be covered with code complying roof covering.

DISCUSSION

The clerical modification is to change the name, address and contact information of the petitioning organization. The report is also updated to the 2017 City of Los Angeles Building Code.

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

New Millennium Building Systems (NMBS)
RE: New Millennium Steel Floor and Roof Deck Panels

The approval is based on tests in accordance with ICC-ES Acceptance Criteria for Steel Deck Roof and Floor Systems (AC 43), dated October 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 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

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: ICC ES Report No. ESR-1169 (135 pages)