New Millennium Building Systems (NMBS)
3565 Hwy 32 North
Hope, AR 81801

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RESEARCH REPORT: RR 25758
(CSI #: 05 31 00; 05 31 23)

BASED UPON ICC EVALUATION SERVICE
REPORT NO. ESR-2657

REEVALUATION DUE
DATE: March 1, 2020
Issued Date: June 1, 2018
Code: 2017 LABC

GENERAL APPROVAL – Reevaluation and Technical Modification Modification – New Millennium Steel Roof Deck Panels: D4.5, D6.0 and D7.5 Deep-Dek®; D4.5A, D6.0A and D7.5A Deep-Dek® Acoustical; D4.5C, D6.0C and D7.5C Deep-Dek® Cellular; D4.5A, D6.0A and D7.5A Deep-Dek® Cellular Acoustical; Versa Dek® Roof Deck Panels; and Versa Dek® Acoustical Roof Deck Panels

DETAILS

The above assemblies and/or products are approved when in compliance with the use, description, design, installation, conditions of approval, and identification of Report No. ESR-2657, reissued March 1, 2018, revised April 2018, 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-2657 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. Deck units for each job shall be identified by the manufacturer's name and deck designation. The material thickness and amount of galvanizing shall also be indicated.

2. When requested by the Department, test data by the mill or by an approved testing agency shall be submitted to verify the deck material is as specified in the attachment.

3. Where exposed to the weather, the deck units shall be galvanized.

4. For each job where the deck units are specified, the following information shall be indicated on the plans to be reviewed by the Department: (a) Cross-section details of the deck units; (b) fastener details, including deck welding or other fasteners at supports, at diaphragm boundaries parallel to flutes, at shear transfer elements, and at side seams if such fasteners are required; (c) minimum length of deck units; and (d) design shears.

5. Spacing of attachments parallel to flutes and at side seams shall be as required but shall not be greater than 3 feet at boundaries parallel to flutes nor greater than 4 feet at side seams if attachments are required.

6. Any change of deck units from those specified on the approved plans shall be approved by the design engineer of the building and by Structural Plan Check of the Department. The proprietary nature of the data in this report precludes their use for deck units by other manufacturers.

7. 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).

8. The sizes of puddle welds specified are the fused sizes. For ½" round puddle welds, the top or appearance size is approximately ¾" round.

9. The number of "puddle welds" specified in the tables are required at each support for each deck unit.

10. For diaphragm construction, the use of deck units less than the full width shall be designed to transfer all shear loads.

11. Continuous inspection by deputy building inspectors shall be provided for welding of the deck units for diaphragms.

12. Deck welding shall be performed by Los Angeles City certified light gage welders. Prior to proceeding with the welding, the welders shall demonstrate to the Deputy Inspectors their ability to produce the prescribed weld satisfactorily. A sample of the deck material shall be welded to steel simulating the framing. The sample specimen shall then be twisted, and if the deck material tears or if the weld in torsion indicates the proper fusion area, the weld shall be considered satisfactory.

13. Allowable loads in the tables are not applicable to concentrated loads or to predominantly vibratory loads.

14. Diaphragm shear values in the tables shall not be increased one-third for seismic or wind loading.

15. Use of the roof decks in fire-resistive construction shall be in accordance with a separate Los Angeles City Research Report.

16. When used as roof covering, panels must be covered with code complying roof covering.

DISCUSSION

The technical modification is to add the add the following roof deck panels as part of the approval: D4.5A, D6.0A and D7.5A Deep-Dek® Acoustical; D4.5A, D6.0A and D7.5A Deep-Dek® Cellular Acoustical; Versa Dek® Roof Deck Panels; and Versa Dek® Acoustical Roof Deck Panels.

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

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.

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: ICC ES Report No. ESR-2657 (64 pages)