

CITY OF LOS ANGELES



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MAYOR

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RESEARCH REPORT: RR 23789
(CSI # 05 31 00)

BASED UPON IAPMO EVALUATION SERVICE
REPORT No. ER-0217

REEVALUATION DUE
DATE: March 1, 2013
Issued Date: March 1, 2012
Code: 2011 LABC

GENERAL APPROVAL – Verco Steel Decks

The above assemblies and/or products are approved when in compliance with the description, use, identification and findings of Report No. ER-0217 issued November 2011, of the IAPMO Evaluation Service, Incorporated. The Report in its entirety is attached and made part of this general approval.

The parts of Report No. ER-0217 marked by the asterisks have been removed by the Los Angeles Building Department from this approval.

The approval is subject to the following conditions:

1. 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.
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. Diaphragm shear values in the tables shall not be increased one-third for seismic or wind loading.

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4. The sizes of puddle welds specified are the fused sizes. For $\frac{1}{2}$ " round puddle welds, the top or appearance size is approximately $\frac{3}{4}$ " round.
5. For diaphragm construction, the use of deck units less than the full width shall be designed to transfer all shear loads.
6. Spacings 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.
7. 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.
8. The deck units shall be galvanized when exposed to weather.
9. 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.
10. 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.
11. Admixtures containing calcium chloride or other corrosive materials shall not be used in the concrete mix for the slab.
12. Continuous inspection by City of Los Angeles registered deputy building inspectors for concrete shall be provided during the mixing and placing of the concrete for the slab.
13. Prior to placement of the concrete for the slab, the steel deck units shall be cleaned and oil, grease and other materials which may adversely affect the bonding of the concrete to the deck shall be removed.
14. Allowable loads in the tables are not applicable to concentrated loads or to predominantly vibratory loads.
15. In structures with long term live loads (i.e., warehouses, computer rooms, file rooms, etc.), the allowable loads in the tables shall be reduced to account for creep in the concrete.
16. Welding of cellular panels shall be performed in an approved LA licensed fabricator shop.

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DISCUSSION

The second sentence has been removed from condition 15 of the Research Report.

The report is in compliance with the 2011 Los Angeles City Building Code.

The approval is based on tests and analysis in accordance with ICC-ES Acceptance Criteria for Steel Decks (AC43), dated October 2010.

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: IAPMO ES Report No. ER-0217 (92 (9+83) Pages)