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RESEARCH REPORT: RR 23789
(CSI #05310)

BASED UPON ICC EVALUATION SERVICE
Evaluation Report No. ESR-1735P

REEVALUATION DUE DATE:
December 1, 2011
Issued Date: December 1, 2009
Code: 2008 LABC

GENERAL APPROVAL – Reevaluation - Technical modification -Verco Steel Decks

DETAILS

The above assemblies and/or products are approved when in compliance with the description, use, identification and findings of Report No. ESR-1735P Issued September 1, 2009, 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-1735P 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. The deck units shall be galvanized when exposed to weather.
2. Admixtures containing calcium chloride or other corrosive materials shall not be used in the concrete mix for the slab.
3. 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.

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Vercor Decking, Inc.
RE: Vercor Steel Decks

4. 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.
5. 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. Allowable loads shall be computed using a modular ratio of $3n$, where "n" is defined as the ratio of the modulus of elasticity of the steel to the modulus of elasticity of the concrete.
6. Composite action shall not be assumed for deck construction with electrical trench headers.
7. The following items are not approved:
 - Pneutek Pin diaphragm shear values.
 - Deck with insulating concrete fill
 - Acoustical fluted deck.
 - Cellular deck.
 - Deep Vercor diaphragm shear values with screws

DISCUSSION

The technical modification is to adopt the following changes in the ICC-ES ESR-1735P:

- Table 12, Allowable diaphragm shear values for decks with concrete fill and $\frac{3}{4}$ ' diameter stud shear connectors.
- Table 2 - Allowable reactions based on web crippling
- Type N roof deck properties based on 38 ksi materials.
- Add section properties for Shallow Vercor.
- Add web crippling values for deep and shallow Vercor

The report is in compliance with the 2008 City of Los Angeles Building Code.

The approval is based on tests and analysis in accordance with ICC-ES AC43.

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.

Verco Decking, Inc.
RE: Verco Steel Decks

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 Evaluation Report No. ESR-1735P (5 Pages) & Tables (51 pages)