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RESEARCH REPORT: RR26091
(CSI #05 26 00/05 05 23)

BASED UPON IAPMO EVALUATION
REPORT NO. 366

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

GENERAL APPROVAL – Reevaluation - Shearflex® Standoff Screw

DETAILS

The above assemblies and/or products are approved when in compliance with the limitations, use, description, design, installation, and identification of Evaluation Report No. 366, issued August 12, 2016, revised August 22, 2017, of the IAPMO Evaluation Services. The report, in its entirety, is attached and made part of this general approval subject to the following conditions:

The approval is subject to the following conditions:

1. The Shearflex® Standoff Screw is to be used only as part of the Nucor Vulcraft/Verco Group Ecospan® Composite Floor System. The steel deck panels permitted to be used with the Shearflex® Standoff Screw are listed in section 2.7 of the attached IAPMO Evaluation Report No. 366.
2. The use of the Shearflex® Standoff Screw as part of the lateral force resisting system is beyond the scope of this report.
3. The thickness of the steel joist top chord shall not be less than 0.109 inches nor greater than 0.313 inches.

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4. Concrete shall comply with the 2017 LABC and shall have a compressive strength f'_c not less than 3 ksi nor more than 10ksi for normal weight concrete and not less than 3 ksi nor more than 6 ksi for light weight concrete.
5. Calculations and details must be submitted to the structural plan check division for approval. Calculations must be prepared, sealed and signed by a civil or structural engineer registered in the State of California.
6. Structural members forming the connection must be designed in accordance with the 2017 LABC.
7. The nominal strength, Q_n , and nominal slip capacity, S_n , for the Shearflex® Standoff Screw are provided in Table 1 of the attached IAPMO Evaluation Report No. 366.
8. The normal strength of the Shearflex® Standoff Screw and the connections made with the Shearflex® Standoff Screw are not permitted to be increased for short-duration loads.
9. The ductility of the Shearflex® Standoff Screw shall be considered in the design of composite joists.
10. A copy of the Shearflex® Standoff Screw installation instructions shall be supplied with delivery of the Shearflex® Standoff Screw.
11. Shearflex® Standoff Screw shall be installed with an end distance and edge distance not less than 3/8 inch from the longitudinal axis of the screw.

DISCUSSION

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

The approval is based on tests in accordance with EVALUATION CRITERIA FOR Self-Tapping, Self-Drilling Standoff Screws EC 023-2015, (Adopted June 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: IAPMO Report No. 366 (5 Pages)