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RESEARCH REPORT: RR 25427
(CSI 06050)

BASED UPON ICC EVALUATION SERVICE
ES REPORT NO. ESR-1267

REEVALUATION DUE

DATE: December 1, 2019

Issued Date: December 1, 2017

Code: 2017 LABC

GENERAL APPROVAL - Reevaluation - Strong-Wall Shear Panels for Lateral Resisting System

DETAILS

The above assemblies and/or products are approved when in compliance with the description, use, description, design, installation, conditions of use, and identification of Report No.ESR-1267, reissued October 1, 2017, of the ICC Evaluation Service, LLC. The report, in its entirety, is attached and made part of this general approval.

The parts of Report No.ESR-1267 marked by the asterisks are the parts modified by the Los Angeles Building Department from this approval.

The approval is subject to the following conditions:

1. The allowable loads shall be determined by calculations prepared by an engineer or architect licensed in the state of California and approved by the structural plan check.
2. The engineer of record shall check the HDQ8 hold-down bolt capacity based on reduced edge and end distances detailed on plans.
3. Continuous inspection by Deputy Inspectors shall be provided during installations of Strong-Wall Shear Panels hold-down anchor bolts.

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4. Fabrication of Strong-Wall Shear Panels shall be in a shop of a fabricator licensed by the City of Los Angeles Building Department, in accordance with the Manufacturing Standards submitted to the Department.
5. A manufactured narrow shear panel (panel) is any product that is delivered assembled to a construction site for installation within a building and which does not conform to the design aspect ratio requirement stated in Table 4.3.4 of the ANSI/AF&PA SDPWS-08. Narrow Shear Panels shall comply with the following conditions:
 - a. The panel can be installed on the first (lowest) story of light-framed construction directly on a concrete wall without mud sill or cripple wall, on a first floor wood raised floor, and on second floor.
 - b. All installations shall use the respective manufacturer's approved anchor bolt template, and otherwise be installed per the approved manufacturer's installation instructions and specifications.
 - c. Design of the system shall be considered "other light-frame walls" with $R=6.5$ in the direction considered. When panels are used in line with other types of panels, only one type shall be considered as the lateral resistance element.
 - d. 4 x 12, minimum, No. 1 Douglas Fir headers shall be used in Portal Frames.
 - e. No Gap between the panel and the header beam/girder shall be permitted for all Portal Frames. Lumber for the header shall have a moisture content of not more than 19% at the time it is fastened to the panels.
 - f. Structural Observation shall be required for the construction of all Portal Frames.
6. When Strong-Wall Panels are used in portal frame systems, the engineer of the record shall check:
 - The concrete capacity of hold-down bolts for overturning, compression and tension.
 - The allowable vertical load on header.
 - The hold-down bolt capacity based on reduced edge and end distances as detailed on the plans.
7. The Portal Frame header must be designed for the load combinations specified in Section 1605.3 of the Los Angeles City Building Code.
8. Note that a Concrete Grade Beam designed by the Engineer of Record is required to resist the moment of the Portal Frame.
9. The Strong-Wall shear panels may replace on a one-to-one basis, the wood structural panel or the alternate brace wall panel specified in Table R602.10.2 of the 2017 Los Angeles Residential Code (LARC), provided the strong wall shear panel width used is not less than the width specified in Table R602.10.5. Strong-Wall panels not meeting

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this width requirement may be used when an engineered design is provided in accordance with Section R301.1.3 of the 2017 Los Angeles Residential Code.

- 10 The garage portal strong wall frames may be used with the 2017 LARC when an engineered design is provided in accordance with Section 301.1.3 of the 2017 LARC.

DISCUSSION

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

The approval is based on test in accordance with ICC-ES Acceptance Criteria for Prefabricated Wood Shear Panels (AC130).

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.

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.

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Attachment: ICC ES Report No. ESR-1267 (28 Pages)