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RESEARCH REPORT: RR 25450  
(CSI #06170)

BASED UPON ICC EVALUATION SERVICE  
REPORT NO. ESR-1225

REEVALUATION DUE DATE:  
May 1, 2012

Issued Date: July 1, 2010  
Code: 2008 LABC

**GENERAL APPROVAL** – Reevaluation/Technical Modification - Pacific Woodtech Corporation PWI Joists

**DETAILS**

The above assemblies and/or products are approved when in compliance with the description, use, identification and findings of Report No.ESR-1225, dated October 1, 2009, of the ICC Evaluation Service, Incorporated. The report, in its entirety, is attached to and made part of this general approval.

The parts of Report No.ESR-1225 marked by the asterisks are modified by the Los Angeles Building Department from this approval.

**The approval is subject to the following conditions:**

1. Adhesives for prefabricated wood I joist flange-flange, flange-web and web-web joints shall be of an exterior type. The adhesive shall conform to ASTM D2559-76.
2. Deflection shall be limited per Code for wood members.
3. Flanges shall not be subjected to dynamic outward forces. Bottom flanges shall not support load exceeding 250 pounds on each side of flange at 5 feet on center or 100 pounds per lineal foot.

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4. Cutting of flanges is not permitted. Holes in the webs must comply with the details listed in Report No.ESR-1225. All holes except small minor ones (up to 2" diameter) shall be indicated on permit plans.
5. Fabrication of prefabricated wood I joists 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.
6. Daily load tests shall be performed in accordance with the Manufacturing Standards. Test results shall be submitted to the Department upon request.
7. The product trade name or trademark, the joist series, the logo of an approved quality assurance agency, the identification mark of the manufacturing plant, and the date of manufacture shall be stamped on the side of each joist.
8. Prefabricated wood I joists shall be doubled under all bearing partitions or walls running parallel to the joists.
9. When installed perpendicular to the gluelines, nails, wood screws, lag screws, and bolts shall be used as provided in the Code as if installed in Douglas fir sawn lumber. Nails, wood screws, and lag screws installed parallel to the same gluelines shall not be spaced closer than 8-inches for 16-penny common nails, 4-inches for 10-penny common nails, and 3-inches for 8-penny common nails. When not installed within the same gluelines, nail, wood screw, or lag screw spacing shall be as specified by Chapter 23 of the current Los Angeles City Building Code.
10. Beams shall not be subjected to tensile stress perpendicular to grain.
11. Design values are subject to adjustment for duration of load as provided in the Code.
12. Prefabricated wood I joists shall be limited to locations where their moisture content cannot be raised above 16 percent.
13. Consideration shall be given to loads due to erection, particularly for long spans which may require nailing of diaphragm prior to erection.

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## **DISCUSSION**

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

The technical modification is to add 9-1/2" to 16" PWI-45, 14" PWI-20 and 22"-24" PWI-77.

The approval is based on tests in accordance with ICC-ES Acceptance Criteria for Prefabricated Wood I-joists (AC14), dated October 2007.

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-1225 (9 Pages)