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USP Structural Connectors,
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RESEARCH REPORT: RR 25971
(CSI # 06 05 23)

BASED UPON ICC EVALUATION SERVICE
REPORT NO. ESR-3446

REEVALUATION DUE
DATE: March 1, 2021
Issued Date: April 1, 2019
Code: 2017 LABC

GENERAL APPROVAL – Technical Modification, Clerical Modification, and Reevaluation -
USP Structural Connectors for Wood-Framed Construction-Slopeable/Skewable Hangers: LS,
LSSH, MSH213L/R, MSH422, SKH, SNP, TMP, and TMPH

DETAILS

The above assemblies and/or products are approved when in compliance with the use, description, design, installation, conditions of use, and identification in Evaluation Report No.ESR-3446, reissued October 1, 2018, revised February 6, 2019, 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-3446 marked by the asterisks are deleted or revised by the Los Angeles Building Department from this approval.

The approval is subject to the following conditions:

1. The connectors must be manufactured, identified and installed in accordance with the attached ICC-ES ESR-3446 report. A copy of the manufacture's published installation instructions must be available at the jobsite at all times during installation.

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United Steel Products Company

RE: USP Structural Connectors for Wood-Framed Construction-Slopable/Skewable Hangers:
LS, LSSH, MSH213L/R, SKH, SNP, TMP, and TMPH

2. The required spacing and size of the framing connectors shall be determined by a licensed civil or structural engineer or architect registered in the State of California. The spacing, size and location of the anchors shall be detailed on the approved set of plans.
3. Allowable loads noted in Tables of the attached ICC ES ESR-3446 report are for the wood fastening devices and its fasteners only. The supporting members shall be checked separately for structural adequacy and must comply with Section 4.0 of the same attached report.
4. Connectors and fasteners used in contact with preservative-treated or fire-retardant-treated wood must comply with Section 2304.10.5 of the 2017 LABC
5. Steel materials shall conform to the specifications shown in the attached ICC ES ESR-3446 report. Test data verifying the properties of the steel, by the mill or by an approved testing agency, shall be obtained for each shipment. The data shall be kept on file and submitted to the Department upon request.
6. Nails shall be common nails except where otherwise specified. Bolts shall conform to ASTM A307 or better.
7. Solid blocking shall be required for all joist hangers supporting roof joists having one end twisted more than one-half degree per foot of length relative to the other end.
8. Approved products to be used shall be indicated on the approved set of plans.
9. Approved products shall be identified with the name "United Steel Products Company" or the "USP" trademark along with the model number stamped on them.

DISCUSSION

The clerical modification is to update the report to the 2017 City of Los Angeles Building Code.

The technical modification is to add MSH422 strap hanger to the approval.

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

The approval is based on tests in accordance with ICC-ES Acceptance Criteria for Joist Hangers and Similar Device (AC 13).

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.

United Steel Products Company

RE: USP Structural Connectors for Wood-Framed Construction-Slopable/Skewable Hangers:
LS, LSSH, MSH213L/R, SKH, SNP, TMP, and TMPH

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-3446 (10 Pages)