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Mitek USA, Inc.  
(formerly USP Structural Connectors)  
14305 Southcross Drive, #200  
Burnsville, MN 55306

Attn: Steve Brekke, P.E.  
(952) 898-8772

RESEARCH REPORT: 25753  
(CSI #03150)

BASED UPON ICC EVALUATION SERVICE  
REPORT NO. ESR-1970

REEVALUATION DUE DATE:  
February 1, 2020  
Issued date: December 1, 2017  
Code: 2017 LABC

**GENERAL APPROVAL** – Reevaluation/Clerical Modification - USP Structural Connectors  
Ductile Undercut (DUC) Anchors

## DETAILS

The USP Structural Connectors Ductile Undercut (DUC) Anchors are approved when in compliance with the use, description, design, installation, conditions of use, and identification of Report No. ESR-1970, reissued June 2016 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. 1970 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 allowable and strength design values listed in the attached report and tables are for the fasteners only. Connected members shall be evaluated for their capacities.
2. The anchors shall be identified by labels on the packaging indicating the manufacturer's name and product designation.

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3. The anchors shall be installed as per the attached manufacturer's instructions except as otherwise stated in this report. Copies of the installation instructions shall be available at each job site.
4. Design values and minimum embedment requirements shall be per Tables in ICC ES Report No. ESR-1970.
5. Special inspection in accordance with Section 1705 of the 2014 Los Angeles City Building Code shall be provided for anchor installations.
6. The use of the DUC Undercut Anchors is not approved for masonry application.
7. The concrete shall attain its minimum design strength prior to installation of the anchors.
8. The values shown in this report shall not be used in repair, retrofit and new construction of tilt -up wall anchorage (In tension) for the connection with the horizontal wood diaphragm.
9. Calculations demonstrating that the applied loads or factored loads are less than the allowable load values or design strength level values respectively, described in this report shall be submitted to the plan check Engineer at the time of permit application. The calculations shall be prepared by a Civil or Structural Engineer registered in the State of California.

**EXCEPTION:** Anchors used for the installation of mechanical, plumbing and electrical equipment may be designed and detailed on a plan prepared by an engineer licensed by the state of California.

## **DISCUSSION**

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

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 (AC 47).

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.

United Steel Products Company  
Re: USP Structural Connectors DUC Undercut Anchor

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-1970 (12 Pages)