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RESEARCH REPORT: RR 26162
(CSI #31 63 00)

BASED UPON IAPMO-UES
EVALUATION
REPORT NO. ER-0391

REEVALUATION DUE
DATE: January 1, 2020
Issued Date: January 1, 2019
Code: 2017 LABC

GENERAL APPROVAL – General Approval – Grip-Tite Manufacturing Helical Pile Foundation System for Remedial Repair

DETAILS

The above assemblies and/or products are approved when in compliance with the use, description, design, installation, conditions of use, and identification of Evaluation Report No. ER-0391, issued April 1, 2016, revised September 6, 2018 of the IAPMO Uniform Evaluation Service, LLC. The report, in its entirety, is attached and made part of this general approval.

The parts of Evaluation Report No. ER-0391 marked by an asterisk are modified or deleted by the Los Angeles City Building Department from this approval.

The approval is subject to the following conditions:

1. The Grip-Tite Manufacturing Helical Pile Foundation System shall not be used for new buildings or structures.
2. In regards to Limitation 2.3 of the attached ER-0391, the use of Grip-Tite Manufacturing Helical Pile Foundation Systems to support structures located in Seismic Design Category D, E, or F is beyond the scope of this approval. As such, the Grip-Tite Helical Pile Foundation System shall be limited to remedial repair of existing foundations only.
3. No lateral load capacity is attributed to the Grip-Tite Manufacturing Helical Pile Foundation System.

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4. When used for Remedial Repair, lateral stability in accordance with Section 1810.2.2 of the 2017 Los Angeles Building Code is not required.
5. The use of the helical pile system to support concrete structures shall be limited to the support of uncracked concrete.
6. For each project using Grip-Tite Manufacturing Helical Pier Foundation System, a geotechnical investigation shall be submitted to the Grading Section for approval addressing the items listed in Section 3.1.5 of the attached ER -0391.
7. The soil capacity shall be limited to the allowable axial load as a function of the actual installation torque described in Section 3.1.5 of the attached ER-0391.
8. Plans with complete structural calculations shall be submitted to Structural Plan Check for approval. The structural calculations shall be performed by a Civil or Structural Engineer registered in the State of California and shall be in accordance with the 2017 Los Angeles City Building Code.
9. The existing foundation and bracket shall be attached such that the shaft shall be braced against side-sway. The bracing force shall be at least 0.4 percent of the shaft's allowable axial capacity in compression.
10. Grip-Tite Manufacturing Helical Pile Foundation System shall be fabricated by an Approved Fabricator, licensed by the Los Angeles City Department of Building and Safety.
11. Installation of Grip-Tite Manufacturing Helical Pile Foundation System shall comply with manufacturer's installation procedures, Section 3.2 of the attached ER-0391, and be conducted under continuous inspection by a Deputy Inspector registered by the Los Angeles Building and Safety Department.

DISCUSSION

The report is in compliance with Section 1810.3.1.5 of the 2017 City of Los Angeles Building Code for remedial repair of existing buildings.

The approval was based on tests in accordance with ICC ES Acceptance Criteria for Helical Pile Systems and Devices (AC358), dated October 2016.

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.

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.

Grip-Tite Manufacturing
RE: Helical Pile Foundation Systems

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-UES Evaluation Report No. ESR-0391 (12 Pages)