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Anchor Products
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RESEARCH REPORT: RR 26147
(CSI #26 31 03)

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REEVALUATION DUE
DATE: September 1, 2019
Issued Date: August 1, 2018
Code: 2017 LABC

GENERAL APPROVAL – U-Anchor 2400/2600 Rooftop Attachment System

DETAILS

The U-Anchor 2400 Single Ply, U-Anchor 2600 Asphalt and the U-Anchor 2600 Coatings are lightweight rooftop attachment consisting of an ASTM A792 AZ55 steel stress plate with a 3/16”- 16 X 1.5” tall stainless-steel stud. The assembly is attached through the roof surface with approved fasteners in compliance with 2017 LABC, manufacturer published instruction and this report. Each U-Anchor flashing cover provides a positive, watertight, roofing manufacturer accepted attachment for single -ply, asphalt, and/or coated roof surfaces. The U-Anchor offers an effective expansion joint at each rooftop attachment point and minimizes stress to the roof components.

The attachment systems recognized by this approval apply to installation on the roof assemblies consisting of the following:

- Roof decks comprised of approved dimensional lumber, steel, gypsum, cementitious wood fiber, concrete, lightweight insulating concrete or minimum 7/16” wood-based sheathing.
- Above the deck insulated and non-insulated roofs.
- Single ply roof covering membranes, mechanically or adhesively attached to the roof deck that are either thermoplastic polyolefin (TPO), polyvinyl chloride (PVC), or Ethylene propylene diene monomer (EPDM). Asphalt based Built Up Roof (BUR), SBS Modified Bitumen (SBS), APP Modified Bitumen (APP). Acrylic, Silicone or Urethane either Single or Two-part based roof coating systems. Each of which independently comprise the top layer of the roof assembly.

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The approval is subject to the following conditions:

1. U-Anchor 2400/2600 Rooftop Attachment System must be installed in accordance with the manufacturer's published installation instructions. A copy of the manufacturer's installation instructions shall be available at the job site.
2. Special inspections are required for the installation of the proprietary attachment system onto the roof assemblies as mandated by the provisions of the 2017 LABC Section 1705.11 for wind resistance and 2017 LABC Section 1705.1.1 Seismic Design Categories D, E or F. A Deputy Inspector shall visit each job prior to permit final to verify Attachments are installed according to manufacture instructions and jobsite plans.
3. A deputy inspector will be on site periodically during the installation of the U-Anchor 2400/2600 Rooftop Attachment System, a minimum of 4 times for roofs less than 50,000 ft² and 6 times for roofs greater than 50,000 ft². The deputy inspector will produce a special inspection report to be submitted to the Inspector of the Los Angeles Department of Building and Safety.
4. Field tests on the existing roof shall be performed according to sections 3.2.5 to 3.2.9 of ICC Acceptance Criteria AC467 by a City of LA approved test lab. A factor of safety of 3 shall be applied to the calculated loads for each load direction. The Flat Plate shall be tested to the same factor of safety. For roofs greater than 50,000 ft², roof will be divided into 6 sections, and tests will be conducted at each of the sections. For roofs less than 50,000 ft², roof will be divided into 4 sections, and tests will be conducted at each of the sections.
5. The overall performance of the roof structure, the adequacy of the existing building with new loads, and calculations demonstrating that the applied loads are less than the maximum allowable loads must be submitted to the structural plan check section for each project. The calculations must be prepared by a California registered Civil Engineer or Architect.
6. No short term loading increase is permitted in the tabulated allowable load values.
7. A California registered Civil or architect must design the structure supporting the PV array and verify its adequacy to support the anticipated applied loads.
8. Electrical safety, grounding provisions and grounding continuity for the PV modules to the PV mounting system are outside the scope of this report.
9. Roof covering membranes that are either thermoplastic polyolefin (TPO) manufactured in accordance with ASTM 6878 or polyvinyl chloride (PVC) manufactured in accordance with ASTM 4434, mechanically or adhesively attached to the roof deck and comprise of the top layer of the roof assembly. Other roofs require the Flat Stanchion per manufactures instructions.

Anchor Products

RE: U-Anchor 2400/2600 Rooftop Attachment System

10. Roof must have a maximum slope of 4:12.
11. Products requiring structural welding shall be fabricated in the shop of a City of Los Angeles licensed fabricator.

DISCUSSION

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

The approval is based on tests and analyses in accordance with ICC-ES AC 467, dated June 2016.

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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