Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

May 6, 2025

Unirac
Attn: Engineering Services Department
1411 Broadway Boulevard NE
Albuquerque, NM 87102-1545
TEL: (505) 242-6411

RE: ENGINEERING CERTIFICATION LETTER FOR THE UNIRAC SUNFRAME MICRORAIL (SFM) INFINITY ROOF PV PANEL SUPPORT SYSTEM
STATE: ARIZONIA
TECTONIC WORK ORDER #: 12557.82

The Unirac Sunframe Microrail (SFM) Infinity Photovoltaic Panel Support System is a proprietary rail-less photovoltaic panel support system that is installed on a roof. Tectonic Engineering Consultants P.C. (Tectonic) has reviewed the SFM Infinity design methodology along with the U-Builder tool: a Unirac online design tool. The review included the following 2" Microrail, 8" Attached Splice, 6" Splice, and Front Trimrail.

Tectonic has determined that the design is a rational approach and follows the structural requirements of the following reference documents:

Codes/Standards:

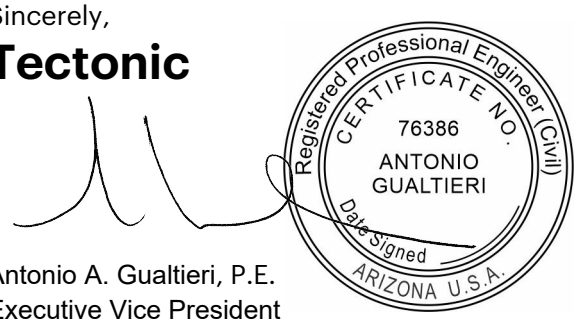
- 2018 International Building Code by International Code Council.
- 2018 International Residential Code by International Code Council.
- ASCE/SEI 7-16 Minimum Design Loads for Buildings and Other Structures, by American Society of Civil Engineers with provision from SEAOC PV-2-2017.
- 2020 Aluminum Design Manual, by Aluminum Association.

This letter certifies that the structural analysis of the racking members, connections, and components directly related to Unirac's system are in compliance with the above state codes, standards and requirements. The design methodology is acceptable under components and cladding loads associated with the building roof structure when the system is installed in accordance with manufacturer specifications. If the loading criteria does not meet Unirac's specifications, the owner shall contact Unirac for a site-specific certification.

The U-Builder Tool should be used under the responsible charger of a registered professional engineer required by the authority having jurisdiction. The design tool and Unirac do not evaluate the existing roof structure, or the PV panels themselves. See the construction and installation drawings and manuals for additional information provided by Unirac.

Sincerely,

Tectonic



Antonio A. Gualtieri, P.E.
Executive Vice President

Digitally signed by Antonio A. Gualtieri, P.E.
Reason: I am approving this document
Date: 2025-05-06 09:48-04:00

Project Contact Info

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