Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

May 14, 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: NEVADA
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 & Surveying 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 Nevada State Building Code
- 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.

Additionally, this letter is only valid if the following criteria are met:

- A building that is less than or equal to three stories in height or 45 feet when measured from the bottom of the lowest footing to the highest point of the roof or parapet wall.
- A building not designated as an essential facility and assigned the classification of Risk Category IV in accordance with the International Building Code.
- A building not requiring special expertise.

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.

Project Contact Info

1279 Route 300 | Newburgh, NY 12550
845.567.6656 Tel | 845.567.8703 Fax

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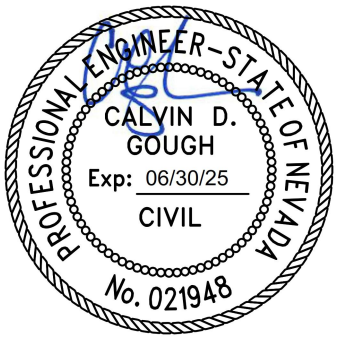
The U-Builder Tool should be used under the responsible charger of a registered professional engineer required by the authority having jurisdiction. The design tool and Unirac do not evaluate the existing roof structure, or the PV panels themselves. See the construction and installation drawings and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

Sincerely,

Tectonic

Calvin D. Gough, P.E.
Manager of Engineering



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