Tectonic
PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

June 26, 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 GRIDFLEX5 ROOF MOUNTED BALLASTED PV PANEL SUPPORT SYSTEM
STATE: CONNECTICUT
TECTONIC WORK ORDER #: 12557.104

The Unirac Gridflex5 system is a proprietary roof mounted ballasted or attached framed photovoltaic panel support system. Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., Inc. (Tectonic) has reviewed the Gridflex5 design methodology along with the U-Builder 2.0 tool; a Unirac online design tool.

The Gridflex5 system utilizes the dead weight of the ballast or secured to the roof by attachment mounts as the main overturing and uplift restraint due to wind. Seismic and lateral wind forces are resisted by friction between the Gridflex5 base and the roof surface or by the attachment mounts.

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

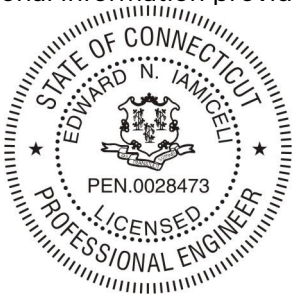
Codes/Standards:

- 2022 Connecticut Building Code
- 2021 International Building Code by International Code Council w/ Provisions from SEAOC PV-2 2017.
- ASCE/SEI 7-16 Minimum Design Loads for Buildings and Other Structures, by American Society of Civil Engineers.
- 2005-2020 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 codes. If the loading criteria does not meet Unirac's specifications, owner shall contact Unirac for a site-specific certification.

The Unirac design tool should be used under the responsible charge of a registered professional engineer required by the authority having jurisdiction. The design tool and Unirac do not evaluate the PV panels themselves or specific corrosion requirements. See the construction and installation drawings and manuals for additional information provided by Unirac.

Sincerely,
Tectonic



Edward N. Iamiceli, P.E.
Managing Director

6/26/25

Project Contact Info

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