

September 5, 2013

Unirac
1411 Broadway Boulevard NE
Albuquerque, New Mexico 87102-1545
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Attn.: Engineering Department,

Re: Engineering Certification for the Unirac RM Roof Mounted Ballasted Photovoltaic Panel Support System.

The Unirac RM Roof Mounted Ballasted Photovoltaic Panel Support System is a proprietary framed ballasted assembly which supports Photovoltaic panels. The ballast frames hold the PV panels and are ballasted with concrete blocks as required for the wind loads. The wind uplift loads are resisted directly by the ballast. Lateral forces, both wind and seismic, are resisted by friction between the ballast and the roof surface. The ballasting requirements are determined using the Unirac online “U-Builder” Design Assistant tool or the Unirac “Design and Engineering Guide”. The Design Assistant covers a wide range of system configurations and loading and allows the user to customize the input to match the specific project conditions.


We have reviewed the Unirac RM Roof Mounted Ballasted Photovoltaic Panel Support System, the RDWI wind tunnel test results and the Unirac ballasted system design methodology and have determined that the Unirac RM ballasted system design methodology is a rational approach and is in compliance with the structural requirements of the following Reference Documents:

Codes: ASCE/SEI 7-05 and ASCE/SEI 7-10 Minimum Design Loads for Buildings and other Structures
International Building Code, 2009 & 2012 Editions
California Building Code, 2010 & 2013 Editions
Other: Aluminum Design Manual, 2010 Edition
RWDI Wind Pressure Study Report #1300856

This letter certifies that the Unirac RM Roof Mounted Ballasted Photovoltaic Panel Support System, the Unirac online “U-Builder” Design Assistant tool and the Unirac “Design and Engineering Guide” are in compliance with the above Reference Documents.

Please feel free to contact me at your convenience if you have any questions.

Sincerely,



Paul Zacher, SE - President

