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February 13, 2014

Unirac, Inc.
1411 Broadway Blvd. NE
Albuquerque, NM 87102

To: Building Department or Others:

RE: Engineer's Notice of Evaluation for UniRac SunFrame™
Universal PV Module Mounting System

Dear Sir:

I have reviewed Unirac SunFrame™ "Code-Compliant Installation Manual 809", and certify that the information and results are accurate. To determine the design level forces, the appropriate wind speed shall be determined as prescribed by local jurisdiction requirements and applied in accordance to the Colorado Statewide Building Code - International Building Code (IBC 2009) or International Residential Code (IRC 2009). These building codes require that wind loading be determined based upon ASCE 7-05 and Unirac's Manual 809 utilizes ASCE 7-05 that matches Method 1 for which Unirac Table 2 is based upon, that which is dependent upon conditions of spatial form, height and other structure parameters that are specified in the code provisions for determining the applied wind loading pressures imposed onto the Unirac SunFrame™ rails supporting solar panels. The SunFrame™ railing and anchorage requirements for the installation are properly represented in the Installation Manual 809.

For other conditions, the determination of wind pressures should be determined by the aforementioned building codes.

The design verification is based on:

- I. ASCE7-05 – ASCE Standard
- II. “Steel Construction Manual,” 13th Ed., American Institute of Steel Construction, Chicago, IL, 2005.
- III. “Aluminum Design Manual”, The Aluminum Association, Washington D.C., 2009.

Use:

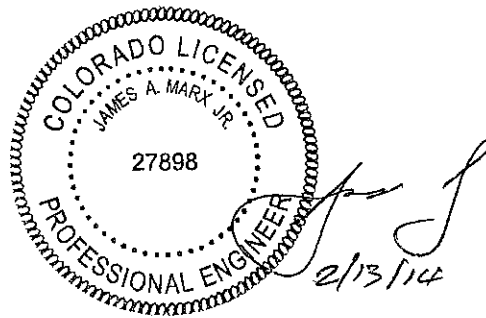
Unirac SunFrame™ is evaluated for use in locations where wind pressure requirements do not exceed 50 psf or snow load conditions do not exceed 50 psf ground snow loads. For loading in excess of either of the above stated conditions, and for conditions having spans 8 ft. and greater, Unirac should be contacted for suitability of installation.

By this letter, I certify that the Unirac SunFrame™ assembly, when installed in accordance with the Installation Manual 809 will meet the requirements of the building codes adopted by Colorado. Others should evaluate the structure to which the Unirac SunFrame™ system is to be connected on a case-by-case basis, per Part i – Installer’s Responsibilities of the Installation Manual, to ensure its adequacy to accept attachments and to support all applied loadings per the building code.

Please call me if you have any questions or concerns.

Sincerely,

James A. Marx, Jr. PE
Professional Engineer
10 High Mountain Road
Ringwood, NJ 07456



CO Professional Engineer License 27898

cc: Unirac, Inc.