

April 26, 2017

Everest Solar Systems, LLC  
3809 Ocean Ranch Blvd, Suite 111  
Oceanside, CA 92056  
Attn: Peter Abou Chacra



**RE: Everest Solar Systems - Tilt Bracket Evaluation**

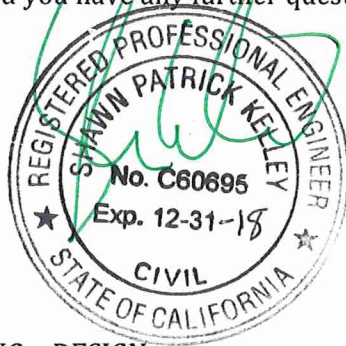
To whom it may concern:

Per your request, Moment Engineering + Design has reviewed recent testing for a new Tilt-Bracket. The bracket consists of an aluminum side plate that is secured to an angled rail at the top and extruded aluminum leg profile along the side. The bottom of the leg is secured to an L-foot bracket that secures to the roof framing. Based on our review of the test data provided on the bracket component of the assembly, it is our opinion that the bracket itself can safely support the following design loads under the following conditions:

- Maximum axial compression force shall not exceed 705#
- Maximum axial tension force shall not exceed 715#
- Bracket was analyzed under axial load conditions only, no bending or shear components were analyzed
- All connections shall be in accordance with manufacturers specifications including required torque
- It should be noted that some table values reported in the tilt-up kit literature may report reaction values exceeding those of the tilt bracket. Where this occurs, consult Everest Solar Systems, LLC for project specific design solutions.

This report does not provide analysis of roof attachment hardware, nor of any existing structures, as may be required by the local authority having jurisdiction. We appreciate the opportunity to have assisted you with this project. Should you have any further questions regarding this analysis, please feel free to contact us by phone or email.

Best Regards,



Shawn P. Kelley, P.E.

**Principal**

moment ENGINEERING + DESIGN

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Reference Document:

1. Everest Solar Systems - Product Testing and Compression Testing of the Tilt-Bracket, Report #229-16-2623A R1, dated November 2<sup>nd</sup>, 2016, by Westpak, Inc.

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**moment** ENGINEERING + DESIGN

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