



February 25, 2020

Everest Solar
2835 La Mirada Drive, Suite A
Vista, CA 92056

Attn.: Engineering Department

Re: Engineering Review Summary for the Everest Solar - Solar Tile Hook 3S

Everest Solar - Solar Tile Hook 3S

The Solar Tile Hook 3S is a two-piece bracket using a non-welded connection. The bracket fixes photovoltaic systems to wooden roof construction. The installation of the bracket can be set into one of two configurations: the roof hook centered to the baseplate with the baseplate centrally fastened, two wood screws, or the roof hook eccentrically placed on the baseplate with the baseplate eccentrically fastened, four wood screws.

PZSE, Inc. – Structural Engineers have reviewed the “PRÜFBERICHT Nr.: 153809” documentation, and specifically the Dachhaken DH Cross Hook 3S der Firma K2 System. This letter certifies the Solar Tile Hook 3S and all information, data, and analysis within follows the structural requirements of the following Reference Documents:

1. Minimum Design Loads for Buildings and Other Structures, ASCE/SEI 7-16
2. 2019 California Building Code, by California Building Standards Commission 2019.
3. 2018 International Residential Code, by the International Code Council, Inc.
4. Aluminum Design Manual 2015, by The Aluminum Association, Inc.
5. ANSI/AWC NDS-2015, National Design Specification for Wood Construction, by the American Wood Council

The Ultimate Load Values per Solar Tile Hook 3S, based on above testing and adjusted per the Reference Documents are as follows:

Ultimate Uplift Capacity: 392.0 lb
 Ultimate Down Capacity:..... 473.0 lb
 Ultimate Side Load (Down-slope):..... 251.0 lb

The above listed Ultimate Load values are for the purpose of the Solar Tile Hook 3S to resist environmental loads.

Designer Responsibility

Solar Tile Hook 3S is intended to be used under the responsible charge of a registered design professional where required by the authority having jurisdiction. In all cases, the Ultimate Values shall be reduced by an appropriate Factor of Safety under the direction of a design professional with sufficient structural engineering knowledge and experience to be able to:

- Evaluate whether the Solar Tile Hook 3S is applicable to the project, based on the characteristics of the project, and
- Understand and determine the appropriate environmental loading conditions.

The user or design professional in responsible charge assumes full design responsibility.

The capacity of the building structure to support the loads imposed on the building by the Solar Tile Hook 3S, including the roof deck and underlying supporting members, is outside the scope of our review.

If you have any questions on the above, do not hesitate to call.

Prepared By:
PZSE, Inc – Structural Engineers
Roseville, CA

