May 24, 2018

SnapNrack
775 Fiero Lane, Ste. 200
San Luis Obispo, CA 93401
TEL: (877) 732-2860

Attn.: SnapNrack - Engineering Department

Re: Report # 2017-00240-B.01 – SnapNrack RL Rail-less System
Subject: Engineering Certification for the State of Minnesota

PZSE, Inc. – Structural Engineers has provided engineering and mount spacing tables for the SnapNrack RL Rail-less System, as presented in PZSE Report # 2017-00240-B.01, "Engineering Certification for the SnapNrack RL Rail-less System". All information, data, and analysis therein are based on, and comply with, the following building codes and typical specifications:

Building Codes:

1. ASCE/SEI 7-10, Minimum Design Loads for Buildings and Other Structures, by American Society of Civil Engineers
2. 2015 Minnesota Building Code, by Minnesota Department of Labor & Industry
3. 2015 Minnesota Residential Code, by Minnesota Department of Labor & Industry
4. AC428, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES
5. ANSI/AWC NDS-2012, National Design Specification for Wood Construction, by the American Wood Council

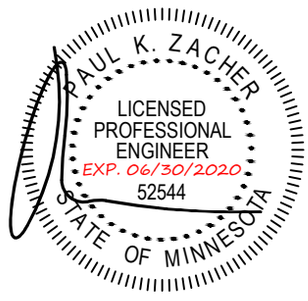
Design Criteria:

Risk Category II
Seismic Design Category = A - E
Basic Wind Speed (ultimate) per ASCE 7-10 = 110 mph to 180 mph
Ground Snow Load = 0 to 90 (psf)

This letter certifies that the loading criteria and design basis for the SnapNrack RL Rail-less System Spacing Tables are in compliance with the above codes.

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

DIGITALLY SIGNED




Prepared by:
PZSE, Inc. – Structural Engineers
Roseville, CA

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.
Signature: _____
Typed or Printed Name: Paul K. Zacher
Date: _____ License Number: 52544