March 9, 2020

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

Attn.: SnapNrack - Engineering Department

Re: Report # 2019-13746.004 – SnapNrack Ultra Rail SpeedSeal Foot

PZSE, Inc. – Structural Engineers has reviewed and analyzed the SnapNrack Ultra Rail SpeedSeal Foot, a new mounting hardware component intended for use with the SnapNrack Ultra Rail Racking System. This review included review of the proposed detail and installation method, and load testing performed on assemblies conforming to the attached detail.

This letter shall be an addendum to the Ultra Rail system certification reports, No. 2017-03227.11 for the UR-40 rail profile & No. 2018-11940.03 for the UR-60 rail profile. Installations using the SnapNrack Ultra Rail SpeedSeal Foot shall be designed per the aforementioned reports using provisions for "Bin 8". Such installations shall conform to the attached installation detail. Allowable load values for the mounting device (presented here) have been determined based on load testing performed by SnapNrack.

Mounting Device:.....“SnapNrack SpeedSeal Foot”
Allowable Uplift Capacity:.....802.2 lb
Allowable Down Capacity: .....1333.3 lb
Allowable Side Load (Down-slope): 356.7lb

The design tables are intended to be used under the responsible charge of a registered design professional where required by the authority having jurisdiction. In all cases, the tables should be used under the direction of a design professional with sufficient structural engineering knowledge and experience to be able to:

- Evaluate whether the tables are applicable to the project, and
- Understand and determine the appropriate values for all input parameters of the tables.

All other information and limitations, including descriptions of the SnapNrack Ultra Rail Racking System, referenced standards, loading criteria, roof zoning, and compatible PV modules shall be taken from the above-referenced report(s). This certification excludes 1) evaluation of the building structure to support the loads imposed on the building by the array; and 2) effects on building structural and architectural components. This requires additional knowledge of the building and is outside the scope of the certification of this racking system component.

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

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

SNAPNRACK UR SPEEDSEAL FOOT
FOR COMPOSTION ROOF MOUNTING

REFER TO SNAPNRACK ENGINEERING CHARTS FOR APPLICABLE RAIL SPANS.

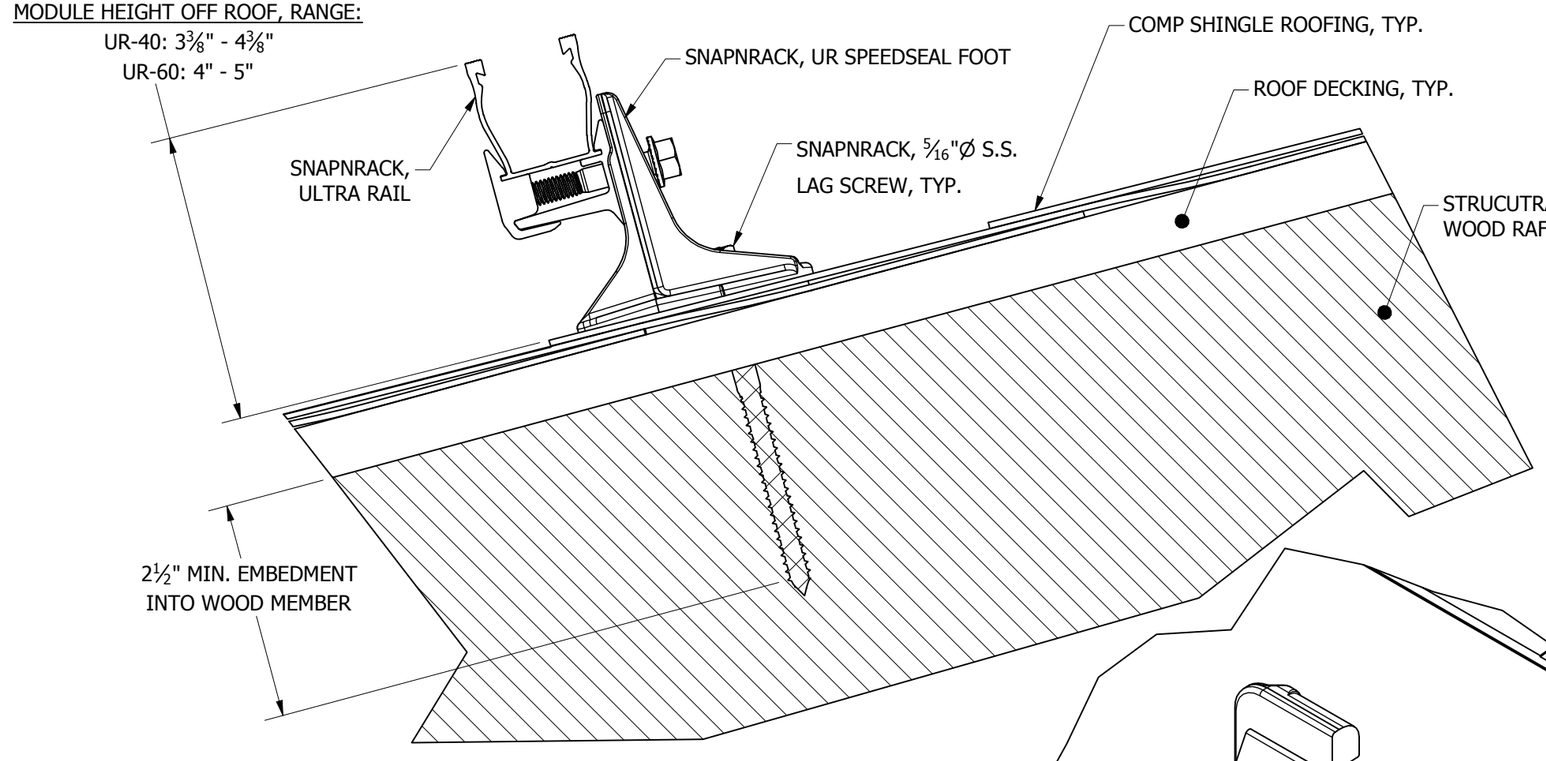
5/16"Ø S.S. LAG SCREW MUST EMBED A MIN. OF 2½" INTO STRUCTURAL MEMBER

REFER TO SNAPNRACK INSTALLATION MANUAL FOR 5/16"Ø HARDWARE TORQUE SPECIFICATIONS

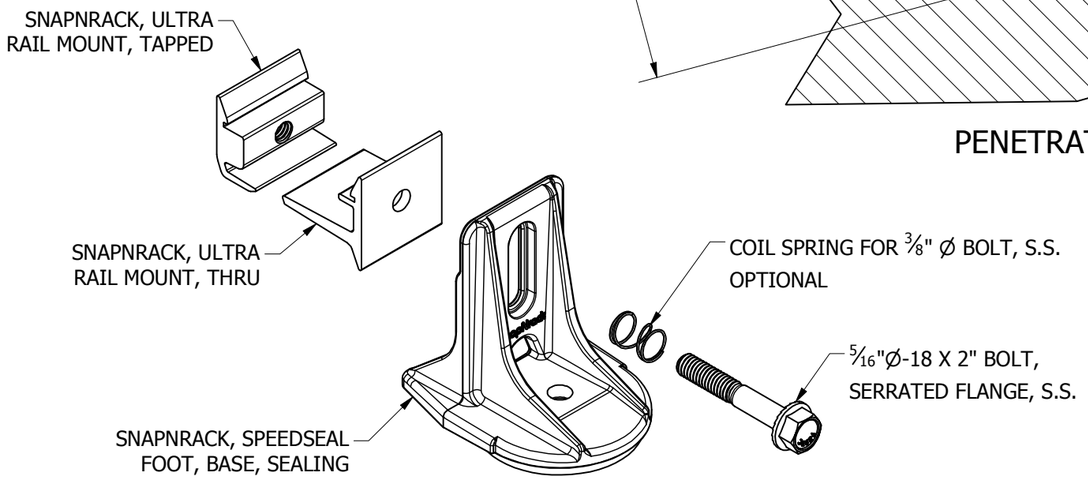
BIN: 8

REVISION:

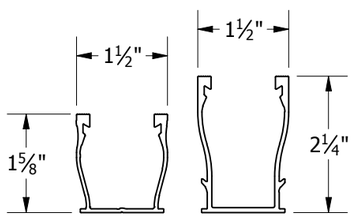
1	3/10/2020	NEW DETAIL	MJA
2	6/5/2020	DIE CAST	BDP
3	7/22/2020	NAME UPDATE	MJA



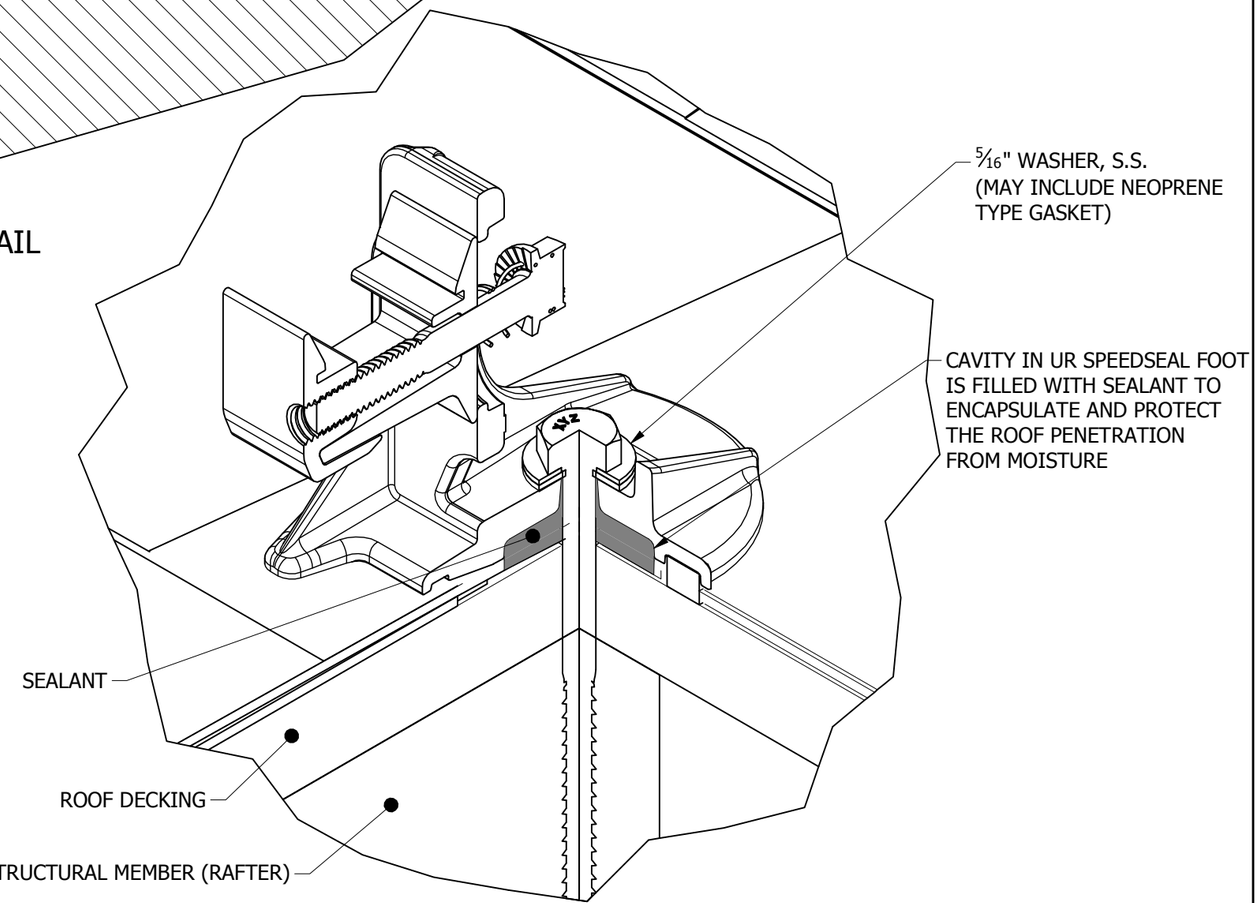
PENETRATION DETAIL



EXPLODED



UR-40 RAIL | UR-60 RAIL
FOR USE WITH SNAPNRACK ULTRA SERIES RAILS



SnapNrack™ Solar Mounting Solutions

Sunrun South LLC
595 MARKET STREET, 29TH FLOOR • SAN FRANCISCO, CA 94105 USA
PHONE (415) 580-6900 • FAX (415) 580-6902

DESIGNER: M.AFFENTRANGER
DRAFTER: M.AFFENTRANGER
APPROVED BY: B.PETERSON

SCALE: DNS
DATE: 7/22/2020

DRAWING NUMBER: SNR-DC-00438

DESCRIPTION: ULTRA RAIL, ATTACHMENT DETAIL, UR SPEEDSEAL FOOT TO RAFTER

REV: 3