

7/21/2022

PURE ENERGY GROUP, LLC, 400 DOMINION DRIVE STE 105, MORRISVILLE, NC 25760

Subject: Structural Certification for Installation of Residential Solar

re job: SAM KWON RESIDENCE, 43 DOONBEG DR,, FUQUAY-VARINA, NC 27526

Attn.: To Whom It May Concern

A field observation was performed to document the existing framing of the above mentioned address. From the field observation, the existing roof structure was observed as:

ROOF 1: Shingle roofing supported by 2x4 Truss @ 24 in. OC spacing. The roof is sloped at approximately 18 degrees and has a max beam span of 9 ft between supports.

Design Criteria:

Code: 2018 NC Residential Code (ASCE 7-10)

Ult Wind Speed: 115 mph Ground Snow: 15 psf
Exposure Cat: C Min Roof Snow: NA psf

After review of the field observation report and based on our structural capacity calculations in accordance with applicable building codes, the existing roof framing supporting the proposed solar panel layout has been determined to be:

ROOF 1: adequate to support the imposed loads. Therefore, no structural upgrades are required.

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