



08-31-2023

Palmetto Solar

997 Morrison Dr, Ste 200, Charleston, SC 29403

Subject: Structural Certification for Installation of Residential Solar
re job: Mikale Bohlmann

207 Barnsley Rd, Angier, NC 27501, USA

Attn.: To Whom It May Concern

Observation of the condition of the existing framing system was performed by an audit team of Palmetto Solar

After review of the field observation data, structural capacity calculations were performed in accordance with applicable building codes to determine adequacy of the existing roof framing supporting the proposed panel layout. Please see full Structural Calculations report for details regarding calculations performed and limits of scope of work and liability. The design criteria and structural adequacy are summarized below:

Design Criteria:

Code: 2018 NCSBC, IBC 2018, ASCE 7-16, Ult Wind Speed: 117 mph, Exposure Category: C ,
Ground Snow: 20 psf, Min Snow Roof: 0 psf

ROOF 1: Shingle roofing supported by 2x4 Rafter @ 24 in. OC spacing. The roof is sloped at approximately 27 degrees and has a max beam span of 9.5 ft between supports. Roof is adequate to support the imposed loads. Therefore, no structural upgrades are required.

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