DEPT OF BLDGS 440749031 Job Number ES807906339 Scan Code

# Tom Petersen

**Architects • Planners**

NYC Department of Buildings
Queens Borough Office
120-55 Queens Boulevard
Kew Gardens, NY 11424

September 28, 2022

Re: Solar Panel Installation
Jaikaran Residence
88-19 199th Street
Queens, NY 11423

Dear Sirs,

I've reviewed the proposed solar panel installation at this location to evaluate the existing roof structure and the connection of the panels to the roof.

| Criteria: | Applicable codes: | 2014 NYC Construction Code (w/ amendments)<br>2001 Wood Frame Construction Manual |
|---|---|---|
| | Design roof load: | 20 psf live load, 10 psf dead load, 30 psf total load |
| | Design wind load: | 120 mph, 35 psf; Exposure Category 'B' |

My findings are as follows.

1. The new solar panels will imply an additional dead load of 3 psf. The existing roof structure (assumed: 2x6 roof rafters @ 16" o.c., with 2x8 ridge, span= +/- 10'-4") is sufficient to bear this additional load. Any assumed, inaccessible or concealed structural members not documented during the initial site analysis will be verified by the solar panel system installers prior to the system installation, and any discrepancies will be reported to the Architect in writing.

2. The solar panels are attached to the roof with the solar panel mounting system, components and fasteners as shown on the attached drawings. The mounting system, roof connections and connection spacing are rated for 120 mph.

*It is a violation of NYSED 7209 for any person, unless acting under the direction of a licensed professional, to alter an item in any way. If an item bearing the seal of a licensed professional is altered, the altering licensed professional must attach the notation 'altered by' with his seal, signature, date of alteration, and description of the alteration.*

I therefore certify that this installation complies with the applicable codes and design loads mentioned above, as well as ASCE 7-16, and is acceptable for approval. Please let me know if you have any questions on this information. Thanks!

Sincerely yours,

Tom Petersen

REGISTERED ARCHITECT
THOMAS F. PETERSEN
035290
STATE OF NEW YORK

Cc: Albert Rojas, Unisolar

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