

Lopez Smolens Associates
Consulting Structural Engineers

July 29, 2016

To: Jon Sader
The RAQ, LLC
2885 Sanford Ave SW #31381
Grandville MI 49418
313-473-7271

Re: PV Rack Analysis
The RAQ, LLC
2885 Sanford Ave SW #31381
Grandville MI 49418



Engineering Project Number: J15538

Jon,

I have performed structural analysis of the RAQ PV racking system and find that:
24" rail spans can support 120 psf snow load or 190 mph 3 second gust exposure C wind load.
32" rail spans can support 110 psf snow load or 180 mph 3 second gust exposure C wind loads.
48" rail spans can support 90 psf snow load or 160 mph 3 second gust exposure C wind loads
72" rail spans can support 54 psf snow loads or 130 mph 3 second gust exposure C wind loads.
96" rail spans can support 28 psf snow loads or 100 mph 3 second gust exposure C wind loads.

Please note that this only applies to the RAQ and not the roofs that they will be attached to. The roofs will have to be evaluated separately.

Let me know if you have any questions or need anything else.

Thank you,

Jonathan Smolens, PE