

**Lopez Smolens Associates**  
**Consulting Structural Engineers**

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July 28, 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:  
32" rail spans can support 110 psf snow load or 180 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,

A handwritten signature in blue ink, appearing to read 'Jonathan Smolens'.

Jonathan Smolens, PE