



January 20, 2021

Kevin Higdon Construction
Attn: Kevin Higdon
PO Box 847
Lee's Summit, MO 64063

RE: Solar System - 1450 SE Broadway Dr, LSMO 64081

Mr. Higdon,

At your request I have reviewed the building structure located at the above referenced address for the addition of a roof mounted solar array and the proposed attachment method as outlined in the solar plans.

- Ref. Butler Manufacturing Plans 18-043821-01 Dated 11/16/2018 - Collateral Gravity: 3.00 psf which is sufficient to support the 2.64 psf distributed load imparted by the solar panels and racking.
- Ref. <https://s-5.com/resources/load-test-results/parallel-to-seam/> Test Results for MR24 Roof System by Butler Manufacturing:

S-5 CLAMP	MANUFACTURER	PRODUCT	THICKNESS MATERIAL	SCREW TENSION (inch-lbs)	ULTIMATE LOAD (lbs)	FAILURE MODE	ALLOWABLE LOAD (lbs)	NOTES
S-5-V	Butler	MR24	24 ga steel	115	2114	B	1057	
S-5-E	Butler	MR24	22 ga steel	150	1897	B/C	949	
S-5-U	Butler	MR24	24 ga steel	115	2114	B	1057	
S-5-E	Butler	MR24	24 ga steel	115	1456	B/C	734	

Based on this review it is my professional opinion that the as-built condition of the building structure is capable of supporting the additional load and the proposed connections will resist wind load. Should you have any questions please do not hesitate to contact me.

Sincerely,

Kurt Krasick

Kurt Krasick, PE
MAR Building Solutions

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