

May 12, 2017

Mounting Systems, Inc. 820 Riverside Pkwy Sacramento, California 95606

TEL: (855) 731-9996 FAX: (916) 287-2269

Attn.: Mounting Systems, Inc. - Engineering Department

Re: Engineering Certification for the Mounting Systems, Inc. 13/52 Rail Alpha+ Shared Rail

PROECT NO.: 2016-11258

PZSE, Inc.-Structural Engineers has reviewed Mounting Systems, Inc.'s 13/52 shared rail span chart. All information, data and analysis contained within the Mounting Systems, Inc. rail span charts are based on, and comply with Mounting Systems, Inc.'s Alpha Engineering and Technical Data and the following codes:

- 1. Minimum Design Loads for Buildings and other Structures, ASCE/SEI 7-10
- 2. 2015 International Building Code, by International Code Council, Inc.
- 3. 2016 California Building Code, by California Building Standards Commission
- 4. 2015 Aluminum Design Manual, by The Aluminum Association
- 5. AC428, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES

Following are typical specifications for the connections to meet the above code requirements:

Attachment Spacing: Mounting Systems, Inc. strongly recommends a maximum span of 8 feet, but in any case,

not to exceed the maximum span indicated on the charts.

Cantilever: Maximum cantilever length is L/3, where "L" is the span noted in the Span Chart Tables.

Clearance: 2" to 10" clear from top of roof to bottom of PV panel.

Rail/Roof Connection: Shall be calculated by the building Engineer of Record.

This letter is to certify that the loading criteria and design basis for the Alpha+ Shared Rail Span Charts within the attached tables are in compliance with the above codes.

If you have any questions on the above, do not hesitate to call.

Prepared by:

PZSE, Inc. - Structural Engineers

Roseville, CA



13/52 Landscape Shared Rail Zone 1 Span Chart															
Exposure	Wind		<u> </u>	<u> </u>		Ground Sno	w Load (psf)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	9.5	8.5	8.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	120	9.5	8.5	8.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	130	9.0	8.5	8.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
В	140	8.0	8.0	8.0	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
В	150	7.5	7.5	7.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	160	7.0	7.0	7.0	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	170	6.5	6.5	6.5	6.0	5.5	5.5	5.0	4.5	4.5	4.0				
	180	6.5	6.5	6.5	6.0	5.5	5.5	5.0	4.5	4.5	4.0				
13/52 Landscape Shared Rail Zone 1 Span Chart															
Exposure	Wind		Ground Snow Load (psf)												
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	9.0	8.5	7.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	120	8.0	8.0	7.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	130	7.5	7.5	7.0	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
С	140	7.0	7.0	7.0	6.0	6.0	5.5	5.0	4.5	4.5	4.0				
C	150	6.5	6.5	6.5	6.0	5.5	5.5	5.0	4.5	4.5	4.0				
	160	6.0	6.0	6.0	6.0	5.5	5.5	5.0	4.5	4.5	4.0				
	170	6.0	6.0	6.0	6.0	5.5	5.5	5.0	4.5	4.5	4.0				
	180	5.5	5.5	5.5	5.5	5.5	5.0	4.5	4.5	4.5	4.0				
			13/52 L	andscape	e Shared	Rail Zone	e 1 Span (Chart							
Exposure	Wind					Ground Sno	w Load (psf)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	8.5	8.5	7.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	120	7.5	7.5	7.0	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	130	7.0	7.0	7.0	6.0	6.0	5.5	5.0	4.5	4.5	4.0				
D	140	6.5	6.5	6.5	6.0	5.5	5.5	5.0	4.5	4.5	4.0				
D	150	6.0	6.0	6.0	6.0	5.5	5.5	5.0	4.5	4.5	4.0				
	160	5.5	5.5	5.5	5.5	5.5	5.0	5.0	4.5	4.5	4.0				
	170	5.5	5.5	5.5	5.5	5.5	5.0	4.5	4.5	4.5	4.0				
	180	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0	4.0				

- a. The table above ONLY includes 13-52 rail capacity check. It does not include roof capacity check
- b. Wind Risk Category II per ASCE 7-10
- c. Topographic factor, k_{zt} is 1.0
- d. Maximum mean roof height is 30 ft.
- e. Average parapet height is 0 ft
- f. Roof pitch is between 7 degree and 27 degree
- g. Maximum solar panel weight is 60 lbs
- h. Height of solar panel is between 2" and 10" to roof
- i. Deflection criteria of L/60 per AC428 Section 4.3
- j. The wind speeds above are LRFD values
- k. Mounting Systems, Inc. strongly recommends a maximum span of 8 feet, but in any case, not to exceed the maximum span indicated on the chart
- I. The span length applies to a seismic design category E or less
- m. Maximum cantilever is L/3

13/52 Landscape Shared Rail Zone 2 Span Chart															
Exposure	Wind				(Ground Sno	w Load (psf	·)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	7.5	7.5	7.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	120	7.0	7.0	7.0	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	130	6.5	6.5	6.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
В	140	6.0	6.0	6.0	6.0	6.0	5.5	5.0	4.5	4.5	4.0				
Ь	150	5.5	5.5	5.5	5.5	5.5	5.5	5.0	4.5	4.5	4.0				
	160	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
	170	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
	180	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0				
13/52 Landscape Shared Rail Zone 2 Span Chart															
Exposure	Wind		Ground Snow Load (psf)												
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	6.5	6.5	6.5	6.5	6.0	5.5	5.0	4.5	4.5	4.0				
	120	6.0	6.0	6.0	6.0	6.0	5.5	5.0	4.5	4.5	4.0				
	130	5.5	5.5	5.5	5.5	5.5	5.5	5.0	4.5	4.5	4.0				
С	140	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
C	150	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
	160	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0				
	170	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
	180	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
			13/52 L	andscape	e Shared	Rail Zone	2 Span (Chart							
Exposure	Wind				(Ground Sno	w Load (psf)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	6.0	6.0	6.0	6.0	6.0	5.5	5.0	4.5	4.5	4.0				
	120	5.5	5.5	5.5	5.5	5.5	5.5	5.0	4.5	4.5	4.0				
	130	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
D	140	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
D	150	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0				
	160	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
	170	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
	180	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				

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- b. Wind Risk Category II per ASCE 7-10
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- d. Maximum mean roof height is 30 ft.
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13/52 Landscape Shared Rail Zone 3 Span Chart															
Exposure	Wind				(Ground Sno	w Load (psf	·)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	6.0	6.0	6.0	6.0	6.0	5.5	5.0	4.5	4.5	4.0				
	120	5.5	5.5	5.5	5.5	5.5	5.5	5.0	4.5	4.5	4.0				
	130	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
В	140	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
Б	150	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0				
	160	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
	170	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
	180	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
13/52 Landscape Shared Rail Zone 3 Span Chart															
Exposure	Wind		Ground Snow Load (psf)												
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	5.5	5.5	5.5	5.5	5.5	5.5	5.0	4.5	4.5	4.0				
	120	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
	130	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0				
С	140	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
C	150	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
	160	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	170	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	180	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
			13/52 L	andscape	e Shared	Rail Zone	e 3 Span (Chart							
Exposure	Wind				1	Ground Sno	w Load (psf)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5	4.0				
	120	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0				
	130	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
D	140	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				
D	150	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	160	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	170	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	180	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				

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13/52 Portrait Shared Rail Zone 1 Span Chart															
Exposure	Wind				(Ground Sno	w Load (psf	<u> </u>							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	7.5	7.0	6.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	120	7.5	7.0	6.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	130	7.0	7.0	6.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
В	140	6.5	6.5	5.5	5.0	4.5	4.5	4.0	3.5	3.5	3.5				
Ь	150	6.0	6.0	5.5	5.0	4.5	4.5	4.0	3.5	3.5	3.5				
	160	5.5	5.5	5.5	5.0	4.5	4.5	4.0	3.5	3.5	3.5				
	170	5.5	5.5	5.5	5.0	4.5	4.0	4.0	3.5	3.5	3.5				
	180	5.0	5.0	5.0	4.5	4.5	4.0	4.0	3.5	3.5	3.5				
13/52 Portrait Shared Rail Zone 1 Span Chart															
Exposure	Wind		Ground Snow Load (psf)												
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	7.0	7.0	6.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	120	6.5	6.5	6.0	5.0	4.5	4.5	4.0	3.5	3.5	3.5				
	130	6.0	6.0	5.5	5.0	4.5	4.5	4.0	3.5	3.5	3.5				
С	140	5.5	5.5	5.5	5.0	4.5	4.0	4.0	3.5	3.5	3.5				
C	150	5.0	5.0	5.0	5.0	4.5	4.0	4.0	3.5	3.5	3.5				
	160	5.0	5.0	5.0	4.5	4.5	4.0	4.0	3.5	3.5	3.5				
	170	4.5	4.5	4.5	4.5	4.5	4.0	4.0	3.5	3.5	3.5				
	180	4.5	4.5	4.5	4.5	4.0	4.0	3.5	3.5	3.5	3.5				
			13/52	Portrait	Shared R	ail Zone	1 Span Cl	nart							
Exposure	Wind					Ground Sno	w Load (psf	")							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	6.5	6.5	6.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	120	6.0	6.0	5.5	5.0	4.5	4.5	4.0	3.5	3.5	3.5				
	130	5.5	5.5	5.5	5.0	4.5	4.0	4.0	3.5	3.5	3.5				
D	140	5.0	5.0	5.0	5.0	4.5	4.0	4.0	3.5	3.5	3.5				
J	150	5.0	5.0	5.0	4.5	4.5	4.0	4.0	3.5	3.5	3.5				
	160	4.5	4.5	4.5	4.5	4.5	4.0	4.0	3.5	3.5	3.5				
	170	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5	3.0				
	180	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5	3.0				

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13/52 Portrait Shared Rail Zone 2 Span Chart															
Exposure	Wind					Ground Sno	w Load (psf	·)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	6.0	6.0	6.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	120	5.5	5.5	5.5	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	130	5.0	5.0	5.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
D	140	4.5	4.5	4.5	4.5	4.5	4.5	4.0	3.5	3.5	3.5				
В	150	4.5	4.5	4.5	4.5	4.5	4.5	4.0	3.5	3.5	3.5				
	160	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5				
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	180	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
13/52 Portrait Shared Rail Zone 2 Span Chart															
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C	150	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	160	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	170	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	180	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
			13/52	Portrait	Shared R	ail Zone	2 Span Cl	nart							
Exposure	Wind				1	Ground Sno	w Load (psf)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	5.0	5.0	5.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	120	4.5	4.5	4.5	4.5	4.5	4.5	4.0	3.5	3.5	3.5				
	130	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5				
D	140	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
D	150	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	160	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	170	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	180	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				

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Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	5.0	5.0	5.0	5.0	5.0	4.5	4.0	3.5	3.5	3.5				
	120	4.5	4.5	4.5	4.5	4.5	4.5	4.0	3.5	3.5	3.5				
	130	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5				
В	140	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
Б	150	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	160	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	170	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	180	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
13/52 Portrait Shared Rail Zone 3 Span Chart															
Exposure	Wind		Ground Snow Load (psf)												
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5				
	120	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5				
	130	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
С	140	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
C	150	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	160	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	170	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5				
	180	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5				
			13/52	Portrait	Shared R	ail Zone	3 Span Cl	nart							
Exposure	Wind				1	Ground Sno	w Load (psf)							
Category	Speed	0	10	20	30	40	50	60	70	80	90				
	110	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5				
	120	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				
	130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
D	140	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
D	150	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
	160	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5				
	170	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5				
	180	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5				

- a. The table above ONLY includes 13-52 rail capacity check. It does not include roof capacity check
- b. Wind Risk Category II per ASCE 7-10
- c. Topographic factor, k_{zt} is 1.0
- d. Maximum mean roof height is 30 ft.
- e. Average parapet height is 0 ft
- f. Roof pitch is between 7 degree and 27 degree
- g. Maximum solar panel weight is 60 lbs
- h. Height of solar panel is between 2" and 10" to roof
- i. Deflection criteria of L/60 per AC428 Section 4.3
- j. The wind speeds above are LRFD values
- k. Mounting Systems, Inc. strongly recommends a maximum span of 8 feet, but in any case, not to exceed the maximum span indicated on the chart
- I. The span length applies to a seismic design category E or less
- m. Maximum cantilever is L/3