

September 27, 2016

Mounting Systems, Inc 820 Riverside Parkway West Sacramento, CA 95605

TEL: (916) 287-2273

Attn.: Mounting Systems Engineering Department,

Re: Engineering Certification for Sigma Pure Ground Mount

PZSE, Inc.-Structural Engineers has reviewed Mounting Systems' span charts for the Sigma Pure Ground Mount in a two panel portrait configuration and a 4 panel landscape configuration. The analysis verifies the capacity of all the racking system component and the dimensions of the concrete pier footing. All information, data and analysis contained within the Mounting System's span charts are based on, and shall comply with Mounting System's Sigma Pure installation manual, technical data sheets, 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 NY State Building Code, by NYS Division of Building Standards and Codes
- 4. 2010 Aluminum Design Manual, by The Aluminum Association
- 5. AISC Steel Manual 14th Edition, American Institute of Steel Construction
- 6. AC428, Acceptance Criteria for Modular Framing Systems Used to Support Photovoltaic (PV) Panels, November 1, 2012 by ICC-ES

This letter certifies that the loading criteria and design basis for the Mounting System Sigma Pure Span Charts within the attached Tables 1-10 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





Date: 10/5/2016 Engineer: CT

	Maxi	mum Rafter Spac	ing and Concrete F	Pier Design For Sign	na Pure Ground M	lount	
	Cond	lition		Concrete Pier Sizes			
	Wind Speed	Tilt	Pier Diameter	Front Min. Depth	Rear Min Depth	Rafter Spacing	
		20 °	12 in	4.0 ft	6.0 ft	12.0 ft	
		20	18 in	3.0 ft	4.0 ft	12.0 ft	
		25 °	12 in	3.0 ft	6.0 ft	10.5 ft	
	105 mph	25	18 in	3.0 ft	4.5 ft	11.5 ft	
рe	105 mpn	30 °	12 in	3.0 ft	6.0 ft	8.5 ft	
ρ̈́		30	18 in	3.0 ft	5.0 ft	11.0 ft	
NO.		35 °	12 in	3.0 ft	6.0 ft	8.0 ft	
2 Panels Portrait, 0 PSF Snow Load		35	18 in	3.0 ft	5.0 ft	9.5 ft	
SF	120 mph	20°	12 in	4.0 ft	6.0 ft	9.5 ft	
0			18 in	3.0 ft	4.5 ft	11.0 ft	
ait,		25 °	12 in	4.0 ft	6.0 ft	9.5 ft	
ij			18 in	3.0 ft	5.0 ft	10.0 ft	
Ъо		30 °	12 in	3.0 ft	6.0 ft	6.5 ft	
els			18 in	3.0 ft	5.0 ft	8.5 ft	
Par		35 °	12 in	3.0 ft	6.0 ft	6.0 ft	
7		33	18 in	3.0 ft	5.0 ft	7.5 ft	
		20 °	12 in	3.5 ft	6.0 ft	7.0 ft	
		20	18 in	3.0 ft	5.0 ft	9.0 ft	
		25 °	12 in	3.0 ft	6.0 ft	6.0 ft	
	140 mph	23	18 in	3.0 ft	5.0 ft	7.5 ft	
	140 IIIpii	30 °	12 in	3.0 ft	6.0 ft	5.0 ft	
			18 in	3.0 ft	5.0 ft	6.0 ft	
		35 °	12 in	3.0 ft	6.0 ft	4.5 ft	
		33	18 in	3.0 ft	5.0 ft	5.5 ft	

EW Bay Spacing Span Chart For Mounting System Sigma Pure

Design Layout Requirements:

System Installation shall follow Mounting systems System Sigma Pure installation manual

Max panel dimension: 1670 mm x 1046 mm

Max panel weight: 52 lbs

Front edge clearance from ground: 3 ft

Front-Rear Leg spacing: 6 ft

Rails are continuous across multiple bays

Applicable Design Codes:

2013 California Building Code

Risk Category I

American Society of Civil Engineers, ASCE 7-10

2010 Aluminum Design Manual

American Institute of Steel Construction AISC 14th Edition

Site Conditions

Exposure category C

Soil site class D

Seismic design category D

Soil lateral bearing pressure 150 psf



Date: 10/5/2016 Engineer: CT

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	Condition			Concrete Pier Sizes		D. G C
	Wind Speed	Tilt	Pier Diameter	Front Min. Depth	Rear Min Depth	Rafter Spacing
		20 °	12 in	4.5 ft	6.0 ft	11.5 ft
		20	18 in	3.0 ft	4.0 ft	11.5 ft
		25 °	12 in	4.0 ft	6.0 ft	10.5 ft
	105 mph	25	18 in	3.0 ft	4.5 ft	11.5 ft
ad	105 (11)	30 °	12 in	3.0 ft	6.0 ft	8.5 ft
Panels Portrait, 20 PSF Snow Load		50	18 in	3.0 ft	5.0 ft	11.0 ft
MOI		35 °	12 in	3.0 ft	6.0 ft	8.0 ft
: Sr		33	18 in	3.0 ft	5.0 ft	9.5 ft
PSF	120 mph	20 °	12 in	4.5 ft	6.0 ft	9.5 ft
20			18 in	3.0 ft	4.5 ft	10.5 ft
iit,		25 °	12 in	4.5 ft	6.0 ft	9.5 ft
rtra		23	18 in	3.0 ft	5.0 ft	10.0 ft
Poi		30 °	12 in	3.0 ft	6.0 ft	6.5 ft
els			18 in	3.0 ft	5.0 ft	8.5 ft
an		35 °	12 in	3.0 ft	6.0 ft	6.0 ft
2 P		33	18 in	3.0 ft	5.0 ft	7.5 ft
		20 °	12 in	3.5 ft	6.0 ft	7.0 ft
		20	18 in	3.0 ft	5.0 ft	9.0 ft
		25 °	12 in	3.0 ft	6.0 ft	6.0 ft
	140 mph	25	18 in	3.0 ft	5.0 ft	7.5 ft
	140 mpn	30 °	12 in	3.0 ft	6.0 ft	5.0 ft
		30	18 in	3.0 ft	5.0 ft	6.0 ft
		35 °	12 in	3.0 ft	6.0 ft	4.5 ft
		33	18 in	3.0 ft	5.0 ft	5.5 ft

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		25 °	12 in	4.5 ft	6.0 ft	8.5 ft	
	105 mph	25	18 in	3.0 ft	5.0 ft	10.5 ft	
ad	103 111þ11	30 °	12 in	3.5 ft	6.0 ft	8.0 ft	
, Lc		30	18 in	3.0 ft	5.0 ft	10.0 ft	
Panels Portrait, 40 PSF Snow Load		35 °	12 in	3.5 ft	6.0 ft	7.5 ft	
· Sn		33	18 in	3.0 ft	5.0 ft	9.5 ft	
PSF	120 mph	20 °	12 in	5.0 ft	6.0 ft	8.0 ft	
40		20	18 in	3.0 ft	5.0 ft	9.5 ft	
it,		25 °	12 in	5.0 ft	6.0 ft	7.0 ft	
tra			18 in	3.0 ft	5.0 ft	9.0 ft	
Por		30°	12 in	3.5 ft	6.0 ft	6.5 ft	
els			18 in	3.0 ft	5.0 ft	8.0 ft	
an		35 °	12 in	3.0 ft	6.0 ft	6.0 ft	
2 P		33	18 in	3.0 ft	5.0 ft	7.5 ft	
		20 °	12 in	4.5 ft	6.0 ft	6.5 ft	
		20	18 in	3.0 ft	5.0 ft	8.0 ft	
		25 °	12 in	4.0 ft	6.0 ft	6.0 ft	
	140 mph	23	18 in	3.0 ft	5.0 ft	7.5 ft	
	140 IIIþII	30 °	12 in	3.0 ft	6.0 ft	5.0 ft	
		30	18 in	3.0 ft	5.0 ft	6.0 ft	
		35 °	12 in	3.0 ft	6.0 ft	4.5 ft	
		33	18 in	3.0 ft	5.0 ft	5.5 ft	

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i		25 °	12 in	5.0 ft	6.0 ft	7.0 ft	
	105 mph	25	18 in	3.0 ft	5.0 ft	9.0 ft	
ad	103 111þ11	30 °	12 in	4.0 ft	6.0 ft	7.0 ft	
Panels Portrait, 60 PSF Snow Load		30	18 in	3.0 ft	5.0 ft	8.5 ft	
νoι		35 °	12 in	4.0 ft	6.0 ft	7.0 ft	
· Sr		33	18 in	3.0 ft	5.0 ft	8.5 ft	
PSF	120 mph	20 °	12 in	5.0 ft	6.0 ft	6.5 ft	
9			18 in	3.0 ft	5.0 ft	8.0 ft	
it,		25 °	12 in	5.0 ft	6.0 ft	6.5 ft	
rtra			18 in	3.0 ft	5.0 ft	8.0 ft	
Pol		30°	12 in	3.5 ft	6.0 ft	6.0 ft	
els			18 in	3.0 ft	5.0 ft	7.5 ft	
an		35 °	12 in	3.5 ft	6.0 ft	5.5 ft	
2 P		33	18 in	3.0 ft	5.0 ft	7.0 ft	
		20 °	12 in	4.5 ft	6.0 ft	5.5 ft	
		20	18 in	3.0 ft	5.0 ft	7.0 ft	
		25 °	12 in	4.0 ft	6.0 ft	5.0 ft	
	140 mph	23	18 in	3.0 ft	5.0 ft	6.5 ft	
	140 mpn	30 °	12 in	3.0 ft	6.0 ft	4.5 ft	
		30	18 in	3.0 ft	5.0 ft	6.0 ft	
		35 °	12 in	3.5 ft	6.0 ft	4.5 ft	
		55	18 in	3.0 ft	5.0 ft	5.5 ft	

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		25°	12 in	4.0 ft	6.0 ft	8.0 ft
	105 mph	25	18 in	3.0 ft	5.0 ft	10.5 ft
-	105 111[11]	30°	12 in	3.0 ft	6.0 ft	7.0 ft
PSF Snow Load		30	18 in	3.0 ft	5.0 ft	8.5 ft
<u>`</u>		35°	12 in	3.0 ft	6.0 ft	6.0 ft
ρ		55	18 in	3.0 ft	5.0 ft	7.0 ft
F S	120 mph	20°	12 in	4.0 ft	6.0 ft	7.5 ft
			18 in	3.0 ft	5.0 ft	9.5 ft
0,0		25°	12 in	3.5 ft	6.0 ft	6.5 ft
аре			18 in	3.0 ft	5.0 ft	8.0 ft
dsc		30°	12 in	3.0 ft	6.0 ft	5.5 ft
an(18 in	3.0 ft	5.0 ft	6.5 ft
ls L		35°	12 in	3.0 ft	6.0 ft	4.5 ft
Panels Landscape,		33	18 in	3.0 ft	5.0 ft	5.5 ft
4 Pē		20°	12 in	4.0 ft	6.0 ft	5.5 ft
7		20	18 in	3.0 ft	5.0 ft	7.0 ft
		25°	12 in	3.0 ft	6.0 ft	4.5 ft
	140 mph	23	18 in	3.0 ft	5.0 ft	6.0 ft
	140 IIIpii	30°	12 in	3.0 ft	6.0 ft	4.0 ft
		50	18 in	3.0 ft	5.0 ft	4.5 ft
		35°	12 in	3.0 ft	6.0 ft	3.5 ft
		33	18 in	3.0 ft	5.0 ft	4.0 ft

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System orientation: 4 Panels Landscape

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Front edge clearance from ground: 2 ft

Front-Rear leg spacing: 7.25 ft

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	Cond	ition		Concrete Pier Sizes		D. C C
	Wind Speed	Tilt	Pier Diameter	Front Min. Depth	Rear Min Depth	Rafter Spacing
		20°	12 in	5.0 ft	6.0 ft	9.0 ft
		20	18 in	3.0 ft	5.0 ft	10.5 ft
		25°	12 in	4.0 ft	6.0 ft	8.0 ft
	105 mph	25	18 in	3.0 ft	5.0 ft	10.0 ft
р	105 mpn	30°	12 in	3.0 ft	6.0 ft	7.0 ft
20 PSF Snow Load		30	18 in	3.0 ft	5.0 ft	8.5 ft
W		35°	12 in	3.0 ft	6.0 ft	6.0 ft
sno		3 3	18 in	3.0 ft	5.0 ft	7.0 ft
SF S	120 mph	20°	12 in	4.0 ft	6.0 ft	7.5 ft
) P			18 in	3.0 ft	5.0 ft	9.5 ft
, 20		25°	12 in	4.0 ft	6.0 ft	6.5 ft
ıpe			18 in	3.0 ft	5.0 ft	8.0 ft
SCE		30°	12 in	3.0 ft	6.0 ft	5.5 ft
and			18 in	3.0 ft	5.0 ft	6.5 ft
s Li		35°	12 in	3.0 ft	6.0 ft	4.5 ft
nel		33	18 in	3.0 ft	5.0 ft	5.5 ft
4 Panels Landscape,		20°	12 in	4.0 ft	6.0 ft	5.5 ft
4		20	18 in	3.0 ft	5.0 ft	7.0 ft
		25°	12 in	3.0 ft	6.0 ft	4.5 ft
	140 mph	23	18 in	3.0 ft	5.0 ft	6.0 ft
	140 IIIþlí	30°	12 in	3.0 ft	6.0 ft	4.0 ft
		30	18 in	3.0 ft	5.0 ft	4.5 ft
		35°	12 in	3.0 ft	6.0 ft	3.5 ft
		33	18 in	3.0 ft	5.0 ft	4.0 ft

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Design Layout Requirements:

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System orientation: 4 Panels Landscape

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Soil site class D

Seismic design category D

Soil lateral bearing pressure 150 psf



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	Condition				Dafte of Constant	
	Wind Speed	Tilt	Pier Diameter	Front Min. Depth	Rear Min Depth	Rafter Spacing
		20°	12 in	5.0 ft	6.0 ft	7.0 ft
		20	18 in	3.0 ft	5.0 ft	8.5 ft
		25°	12 in	4.5 ft	6.0 ft	6.5 ft
	105 mph	25	18 in	3.0 ft	5.0 ft	8.0 ft
ъ	105 (11)(11	30°	12 in	4.0 ft	6.0 ft	6.0 ft
4 Panels Landscape, 40 PSF Snow Load		30	18 in	3.0 ft	5.0 ft	7.5 ft
≯		35°	12 in	3.5 ft	6.0 ft	6.0 ft
, Sno		33	18 in	3.0 ft	5.0 ft	7.0 ft
FS.	120 mph	20°	12 in	5.0 ft	6.0 ft	6.0 ft
G			18 in	3.0 ft	5.0 ft	7.5 ft
,4		25°	12 in	4.0 ft	6.0 ft	5.5 ft
эре			18 in	3.0 ft	5.0 ft	7.0 ft
SCS		30°	12 in	3.5 ft	6.0 ft	5.0 ft
anc			18 in	3.0 ft	5.0 ft	6.5 ft
S L			12 in	3.0 ft	6.0 ft	4.5 ft
nel		33	18 in	3.0 ft	5.0 ft	5.5 ft
Ра		20°	12 in	5.0 ft	6.0 ft	5.0 ft
4		20	18 in	3.0 ft	5.0 ft	6.5 ft
		25°	12 in	4.0 ft	6.0 ft	4.5 ft
	140 mph	23	18 in	3.0 ft	5.0 ft	5.5 ft
	140 mpn	30°	12 in	3.0 ft	6.0 ft	4.0 ft
		30	18 in	3.0 ft	5.0 ft	4.5 ft
		35°	12 in	3.0 ft	6.0 ft	4.5 ft
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SF S	120 mph	20°	12 in	5.0 ft	6.0 ft	5.0 ft
) P.			18 in	3.0 ft	5.0 ft	6.5 ft
, 60		25°	12 in	4.5 ft	6.0 ft	5.0 ft
abe			18 in	3.0 ft	5.0 ft	6.0 ft
SCS		30°	12 in	4.0 ft	6.0 ft	4.5 ft
and			18 in	3.0 ft	5.0 ft	5.5 ft
s Li			12 in	3.5 ft	6.0 ft	4.5 ft
nel		33	18 in	3.0 ft	5.0 ft	5.5 ft
Ра		20°	12 in	5.0 ft	6.0 ft	4.5 ft
4		20	18 in	3.0 ft	5.0 ft	5.5 ft
		25°	12 in	4.5 ft	6.0 ft	4.0 ft
	140 mph	23	18 in	3.0 ft	5.0 ft	5.0 ft
	140 IIIpii	30°	12 in	3.5 ft	6.0 ft	3.5 ft
		30	18 in	3.0 ft	5.0 ft	4.5 ft
		35°	12 in	3.5 ft	6.0 ft	4.5 ft
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	N Cond		oacing For Sigma P	ure Ground Moun Snow 20 PSF	t With Earth Screv	VS Snow 60 PSF
	Wind Speed	Tilt	3110W 0 1 31	Maximum Ra		3110W 00 1 31
		20°	12.0 ft	11.5 ft	10.0 ft	9.0 ft
	105	25°	11.5 ft	11.5 ft	10.0 ft	9.0 ft
	105 mph	30°	11.0 ft	11.0 ft	10.0 ft	9.5 ft
ıit		35°	11.0 ft	11.0 ft	10.5 ft	10.0 ft
2 Panels Portrait	120 mph	20°	11.0 ft	10.5 ft	9.5 ft	8.5 ft
anels		25°	10.0 ft	10.0 ft	9.5 ft	8.5 ft
2 F		30°	9.5 ft	9.5 ft	9.5 ft	9.0 ft
		35°	9.5 ft	9.5 ft	9.5 ft	9.0 ft
		20°	9.5 ft	9.5 ft	8.5 ft	8.0 ft
		25°	9.0 ft	9.0 ft	8.5 ft	8.0 ft
	140 mph	30°	8.5 ft	8.5 ft	8.5 ft	8.0 ft
		35°	7.5 ft	7.5 ft	7.5 ft	7.5 ft

EW Bay Spacing Span Chart For Mounting System Sigma Pure

Design layout requirements:

System installation shall follow Mounting Systems Sigma Pure installation manual

System orientation: 2 panels portrait

Max panel dimension: 1670 mm x 1046 mm

Max panel weight: 52 lbs.

Front edge clearance from ground: 3 ft.

Front-Rear Leg spacing: 6 ft.

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Seismic Design Category D

Earth Screws to be designed by others



Date: 10/5/2016 Engineer: CT

				ure Ground Moun		
	Condition		Snow 0 PSF	Snow 20 PSF	Snow 40 PSF	Snow 60 PSF
	Wind Speed	Tilt		Maximum Ra	ifter Spacing	<u></u>
		20°	11.0 ft	10.5 ft	9.0 ft	8.0 ft
	105 mph	25°	10.5 ft	10.0 ft	9.0 ft	8.5 ft
	103 ((()))	30°	10.0 ft	10.0 ft	9.0 ft	8.5 ft
эре		35°	8.5 ft	8.5 ft	8.5 ft	8.5 ft
4 Panels Landscape	120 mph	20°	9.5 ft	9.5 ft	8.5 ft	7.5 ft
anels L		25°	9.0 ft	9.0 ft	8.5 ft	8.5 ft
4 Pa		30°	7.5 ft	7.5 ft	7.5 ft	7.5 ft
		35°	6.5 ft	6.5 ft	6.5 ft	6.5 ft
		20°	8.5 ft	8.5 ft	7.5 ft	7.0 ft
	140 mmh	25°	7.5 ft	7.5 ft	7.5 ft	7.0 ft
	140 mph	30°	5.5 ft	5.5 ft	5.5 ft	5.5 ft
		35°	4.5 ft	4.5 ft	4.5 ft	4.5 ft

EW Bay Spacing Span Chart For Mounting System Sigma Pure

Design layout requirements:

System installation shall follow Mounting Systems Sigma Pure installation manual

System orientation: 4 panels landscape

Max panel dimension: 1670 mm x 1046 mm

Max panel weight: 52 lbs.

Front edge clearance from ground: 2 ft.

Front-Rear Leg spacing: 7.25 ft.

System is continuous across multiple bays

Applicable Design Codes:

2013 California Building Code

Risk Category I

American Society of Civil Engineers, ASCE 7-10

2010 Aluminum Design Manual

American Institute of Steel Construction AISC 14th Edition

Site Conditions

Exposure category C

Soil site class D

Seismic Design Category D

Earth Screws to be designed by others