



12/29/2017

Attn: Mr. Marshall Green
Quick Mount PV
2700 Mitchell Dr.
Walnut Creek, CA, 94598

RE: Quick Mount PV QHook Mount System for use with
IronRidge XR100 Roof Flush Mount System

SEI Project No.: 17054.00

Dear Mr. Green

Structural Enginuity Inc. (SEI) has completed its review of the Quickmount PV QHook Mount System for use in conjunction with the IronRidge XR100 Rail, Roof Flush Mount System. The QHook product line includes the Quick Hook for Side Mount Rails (QMHS & QMHL) mounts.

The review was based on the following reference data:

- Starling Madison Lofquist, Inc., IronRidge XR100 Rail, Roof Flush Mounting System – Structural Analysis, March 14, 2016
- Applied Materials & Engineering, Laboratory Load Test of the QMHS with 6061 Base Plate, Project Number 114490C, March 18, 2015
- Applied Materials & Engineering, Laboratory Load Test of the QMHL with 6061 Base Plate, Project Number 114490C, March 10, 2015
- Structural Enginuity, Inc., Quick Mount PV Quick Hook Compliance Letter, Project Number 16054.00, October 16, 2017

SEI has determined that the QHook Mount is suitable for use with the IronRidge XR100 Rail, Roof Flush Mount System. The approved installation and allowable loads for the Quick Mount PV QHook products is outlined in the Structural Enginuity, Inc. letters referenced above. The allowable load values are shown below, no additional load duration factors may be applied to these values.

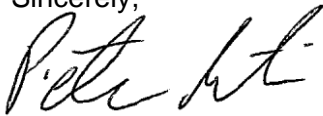
Table 1: QHook Allowable Loads

Load Direction	Mount Type	Allowable Load
Uplift	QMHSS	506 lb.
	QMHLs	418 lb.
Lateral	QMHSS	367 lb.
	QMHLs	323 lb.
Compression	QMHSS	378 lb.
	QMHLs	338 lb.

SEI has prepared allowable rail span charts for the IronRidge XR100 Rail System used in conjunction with the Quick Mount PV QHook products. These span tables serve as a quick reference for looking up maximum rail spans based on building and site conditions and follow the 2016 CBC, 2015 IBC/IRC and applicable ASCE 7-10 load cases. The tables take into account the strength of the rail system as well as the allowable tension, compression, and lateral forces of the QHook Mount. A site specific analysis is required if the site conditions or building characteristics do not meet the requirements listed in the attached tables. In all cases, the tables are meant to be used in conjunction with IronRidge XR100 Structural Report and Calculations and all requirements listed are still applicable for these tables including edge zones and edge distances.

Please contact our office if you have any further questions relating to this matter.

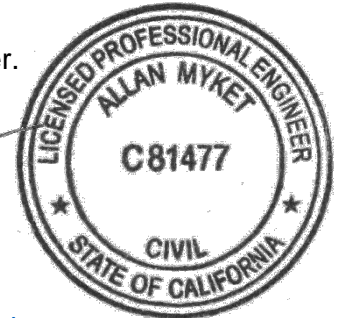
Sincerely,



Peter Martin
Engineer II
pmartin@structuralengenuityinc.com



Allan T. Myket, P.E.
President/Founder
amyket@structuralengenuityinc.com



12/29/2017

Structural Engenuity Inc.

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHSS Products

Table 1A		Roof Height: 0-30 ft		Panel Orientation: Portrait							
		Roof Angle: 7 - 27 degrees									
		Roof Wind Zone: 1									
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	112	97	74	55	44	37	32	28	25	22
	105	112	97	72	55	44	37	31	28	24	22
	110	112	97	71	54	43	36	31	27	24	22
	120	112	97	69	53	43	36	31	27	24	22
	130	112	95	66	51	42	35	30	27	24	21
	140	105	90	64	50	41	34	30	26	23	21
	150	98	85	62	48	40	34	29	26	23	21
	160	92	81	59	47	39	33	29	25	23	21
Category C	100	112	97	74	55	44	37	32	28	25	22
	105	112	97	72	55	44	37	31	28	24	22
	110	112	97	71	54	43	36	31	27	24	22
	120	103	97	69	53	43	36	31	27	24	22
	130	96	95	66	51	42	35	30	27	24	21
	140	89	89	64	50	41	34	30	26	23	21
	150	84	84	62	48	40	34	29	26	23	21
	160	79	79	59	47	39	33	29	25	23	21
Category D	100	112	97	74	55	44	37	32	28	25	22
	105	108	97	72	55	44	37	31	28	24	22
	110	103	97	71	54	43	36	31	27	24	22
	120	95	95	69	53	43	36	31	27	24	22
	130	88	88	66	51	42	35	30	27	24	21
	140	82	82	64	50	41	34	30	26	23	21
	150	77	77	62	48	40	34	29	26	23	21
	160	73	73	59	47	39	33	29	25	23	21
	170	68	68	57	45	38	32	28	25	22	20

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHLS Products

Table 1B		Roof Height: 0-30 ft		Panel Orientation: Portrait							
		Roof Angle: 7 - 27 degrees									
		Roof Wind Zone: 1									
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	112	97	66	49	40	33	28	25	22	20
	105	112	96	65	49	39	33	28	25	22	20
	110	112	94	64	48	39	32	28	24	22	20
	120	112	89	62	47	38	32	27	24	22	19
	130	112	85	59	46	37	31	27	24	21	19
	140	105	80	57	44	36	31	27	23	21	19
	150	98	76	55	43	35	30	26	23	21	19
	160	92	72	53	42	35	29	26	23	20	18
Category C	100	112	97	66	49	40	33	28	25	22	20
	105	112	96	65	49	39	33	28	25	22	20
	110	112	94	64	48	39	32	28	24	22	20
	120	103	89	62	47	38	32	27	24	22	19
	130	96	85	59	46	37	31	27	24	21	19
	140	89	80	57	44	36	31	27	23	21	19
	150	84	76	55	43	35	30	26	23	21	19
	160	79	72	53	42	35	29	26	23	20	18
Category D	100	112	97	66	49	40	33	28	25	22	20
	105	108	96	65	49	39	33	28	25	22	20
	110	103	94	64	48	39	32	28	24	22	20
	120	95	89	62	47	38	32	27	24	22	19
	130	88	85	59	46	37	31	27	24	21	19
	140	82	80	57	44	36	31	27	23	21	19
	150	77	76	55	43	35	30	26	23	21	19
	160	73	72	53	42	35	29	26	23	20	18
	170	68	68	51	40	34	29	25	22	20	18

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHSS Products

Table 2A		Roof Height: 0-30 ft		Panel Orientation: Portrait							
		Roof Angle: 7 - 27 degrees									
		Roof Wind Zone: 2									
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	106	97	74	55	44	37	32	28	25	22
	105	102	97	72	55	44	37	31	28	24	22
	110	97	97	71	54	43	36	31	27	24	22
	120	90	90	69	53	43	36	31	27	24	22
	130	83	83	66	51	42	35	30	27	24	21
	140	77	77	64	50	41	34	30	26	23	21
	150	66	66	62	48	40	34	29	26	23	21
	160	58	58	58	47	39	33	29	25	23	21
Category C	100	91	91	69	53	43	36	31	27	24	22
	105	87	87	68	52	42	35	31	27	24	22
	110	83	83	66	51	42	35	30	27	24	21
	120	75	75	63	49	40	34	30	26	23	21
	130	63	63	61	48	39	33	29	26	23	21
	140	54	54	54	46	38	32	28	25	23	20
	150	46	46	46	44	37	32	28	25	22	20
	160	41	41	41	41	36	31	27	24	22	20
Category D	100	84	84	67	51	42	35	30	27	24	22
	105	80	80	65	50	41	35	30	26	24	21
	110	75	75	64	49	40	34	30	26	23	21
	120	62	62	60	48	39	33	29	26	23	21
	130	52	52	52	46	38	32	28	25	23	20
	140	45	45	45	44	37	31	27	24	22	20
	150	39	39	39	39	35	30	27	24	22	20
	160	34	34	34	34	34	29	26	23	21	19
	170	30	30	30	30	30	28	25	23	21	19

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHLS Products

Table 2B		Roof Height:	0-30 ft		Panel Orientation:	Portrait					
		Roof Angle:	7 - 27		degrees						
		Roof Wind Zone:	2								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	106	97	66	49	40	33	28	25	22	20
	105	102	96	65	49	39	33	28	25	22	20
	110	97	94	64	48	39	32	28	24	22	20
	120	89	89	62	47	38	32	27	24	22	19
	130	75	75	59	46	37	31	27	24	21	19
	140	64	64	57	44	36	31	27	23	21	19
	150	55	55	55	43	35	30	26	23	21	19
	160	48	48	48	42	35	29	26	23	20	18
Category C	100	91	90	62	47	38	32	28	24	22	19
	105	83	83	61	46	38	32	27	24	21	19
	110	75	75	59	46	37	31	27	24	21	19
	120	62	62	57	44	36	31	26	23	21	19
	130	52	52	52	43	35	30	26	23	21	19
	140	44	44	44	41	34	29	25	22	20	18
	150	38	38	38	38	33	28	25	22	20	18
	160	33	33	33	33	32	27	24	21	19	18
Category D	100	76	76	60	46	37	31	27	24	21	19
	105	69	69	58	45	37	31	27	24	21	19
	110	62	62	57	44	36	31	27	23	21	19
	120	51	51	51	43	35	30	26	23	21	19
	130	43	43	43	41	34	29	25	22	20	18
	140	37	37	37	37	33	28	25	22	20	18
	150	32	32	32	32	31	27	24	21	19	18
	160	28	28	28	28	28	26	23	21	19	17
	170	25	25	25	25	25	25	23	20	18	17

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHSS Products

Table 3A		Roof Height:	0-30 ft		Panel Orientation:	Portrait					
		Roof Angle:	7 - 27		degrees						
		Roof Wind Zone:	3								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	87	87	74	55	44	37	32	28	25	22
	105	83	83	72	55	44	37	31	28	24	22
	110	80	80	71	54	43	36	31	27	24	22
	120	68	68	68	53	43	36	31	27	24	22
	130	57	57	57	51	42	35	30	27	24	21
	140	49	49	49	49	41	34	30	26	23	21
	150	42	42	42	42	40	34	29	26	23	21
	160	37	37	37	37	37	33	29	25	23	21
Category C	100	70	70	69	53	43	36	31	27	24	22
	105	63	63	63	52	42	35	31	27	24	22
	110	57	57	57	51	42	35	30	27	24	21
	120	47	47	47	47	40	34	30	26	23	21
	130	40	40	40	40	39	33	29	26	23	21
	140	34	34	34	34	34	32	28	25	23	20
	150	30	30	30	30	30	30	28	25	22	20
	160	26	26	26	26	26	26	26	24	22	20
Category D	100	58	58	58	51	42	35	30	27	24	22
	105	53	53	53	50	41	35	30	26	24	21
	110	48	48	48	48	40	34	30	26	23	21
	120	40	40	40	40	39	33	29	26	23	21
	130	34	34	34	34	34	32	28	25	23	20
	140	29	29	29	29	29	29	27	24	22	20
	150	25	25	25	25	25	25	25	24	22	20
	160	22	22	22	22	22	22	22	22	21	19
170	19	19	19	19	19	19	19	19	19	19	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHLS Products

Table 3B		Roof Height: 0-30 ft		Panel Orientation: Portrait							
		Roof Angle: 7 - 27 degrees									
		Roof Wind Zone: 3									
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	83	83	66	49	40	33	28	25	22	20
	105	75	75	65	49	39	33	28	25	22	20
	110	68	68	64	48	39	32	28	24	22	20
	120	56	56	56	47	38	32	27	24	22	19
	130	47	47	47	46	37	31	27	24	21	19
	140	40	40	40	40	36	31	27	23	21	19
	150	35	35	35	35	35	30	26	23	21	19
	160	31	31	31	31	31	29	26	23	20	18
Category C	100	58	58	58	47	38	32	28	24	22	19
	105	52	52	52	46	38	32	27	24	21	19
	110	47	47	47	46	37	31	27	24	21	19
	120	39	39	39	39	36	31	26	23	21	19
	130	33	33	33	33	33	30	26	23	21	19
	140	28	28	28	28	28	28	25	22	20	18
	150	25	25	25	25	25	25	25	22	20	18
	160	22	22	22	22	22	22	22	21	19	18
Category D	100	48	48	48	46	37	31	27	24	21	19
	105	43	43	43	43	37	31	27	24	21	19
	110	39	39	39	39	36	31	27	23	21	19
	120	33	33	33	33	33	30	26	23	21	19
	130	28	28	28	28	28	28	25	22	20	18
	140	24	24	24	24	24	24	24	22	20	18
	150	21	21	21	21	21	21	21	21	19	18
	160	18	18	18	18	18	18	18	18	18	17
	170	16	16	16	16	16	16	16	16	16	16

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHSS Products

Table 4A		Roof Height:	0-30 ft		Panel Orientation: Portrait						
		Roof Angle:	28 - 45		degrees						
		Roof Wind Zone:	1								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	107	98	84	67	56	48	42	37	34	31
	105	107	98	81	66	55	47	41	37	33	30
	110	106	97	79	64	54	46	41	36	33	30
	120	101	94	74	60	51	45	39	35	32	29
	130	93	86	69	57	49	43	38	34	31	28
	140	82	79	64	54	47	41	37	33	30	28
	150	73	73	60	51	44	39	35	32	29	27
	160	66	66	56	48	42	37	34	31	28	26
Category C	100	101	94	74	61	52	45	40	35	32	29
	105	98	91	71	59	50	44	39	35	32	29
	110	92	86	69	57	49	43	38	34	31	28
	120	80	78	63	53	46	41	36	33	30	27
	130	70	70	58	50	43	38	35	31	29	26
	140	62	62	54	46	41	36	33	30	28	25
	150	7	55	50	43	38	34	31	29	26	25
	160	49	49	46	40	36	33	30	27	25	24
Category D	100	94	87	69	58	49	43	38	34	31	29
	105	87	82	66	55	48	42	37	34	31	28
	110	81	78	63	53	46	41	36	33	30	27
	120	70	70	58	50	43	38	34	31	29	26
	130	61	61	53	46	40	36	33	30	27	25
	140	53	53	49	43	38	34	31	28	26	24
	150	47	47	45	40	35	32	29	27	25	23
	160	42	42	41	37	33	30	28	26	24	22
170	38	38	38	34	31	28	26	24	23	21	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHLS Products

Table 4B		Roof Height:	0-30 ft		Panel Orientation:	Portrait					
		Roof Angle:	28 - 45 degrees								
		Roof Wind Zone:	1								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	107	98	75	60	50	43	38	34	30	27
	105	107	96	73	59	49	42	37	33	30	27
	110	106	92	70	57	48	41	36	33	29	27
	120	94	84	66	54	46	40	35	32	29	26
	130	83	77	61	51	44	38	34	31	28	25
	140	73	71	57	48	42	37	33	29	27	25
	150	65	65	54	46	40	35	31	28	26	24
	160	59	59	50	43	38	33	30	27	25	23
Category C	100	96	85	66	55	46	40	35	32	29	26
	105	89	81	64	53	45	39	35	31	28	26
	110	83	77	61	51	44	38	34	30	28	25
	120	72	70	57	48	41	36	32	29	27	25
	130	63	63	52	45	39	34	31	28	26	24
	140	55	55	48	42	37	33	29	27	25	23
	150	47	49	44	39	34	31	28	26	24	22
	160	44	44	41	36	32	29	27	24	23	21
Category D	100	84	78	62	51	44	38	34	31	28	25
	105	78	74	59	50	43	37	33	30	27	25
	110	72	70	57	48	41	36	32	29	27	25
	120	62	62	52	44	39	34	31	28	26	24
	130	54	54	48	41	36	32	29	27	24	23
	140	48	48	44	38	34	30	28	25	23	22
	150	42	42	40	35	32	29	26	24	22	21
	160	38	38	37	33	30	27	25	23	21	20
	170	34	34	34	30	28	25	23	22	20	19

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHSS Products

Table 5A		Roof Height:	0-30 ft		Panel Orientation:	Portrait					
		Roof Angle:	28 - 45 degrees								
		Roof Wind Zone:	2								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	107	98	84	67	56	48	42	37	34	31
	105	107	98	81	66	55	47	41	37	33	30
	110	106	97	79	64	54	46	41	36	33	30
	120	101	94	74	60	51	45	39	35	32	29
	130	93	86	69	57	49	43	38	34	31	28
	140	82	79	64	54	47	41	37	33	30	28
	150	73	73	60	51	44	39	35	32	29	27
	160	66	66	56	48	42	37	34	31	28	26
Category C	100	101	94	74	61	52	45	40	35	32	29
	105	98	91	71	59	50	44	39	35	32	29
	110	92	86	69	57	49	43	38	34	31	28
	120	80	78	63	53	46	41	36	33	30	27
	130	70	70	58	50	43	38	35	31	29	26
	140	62	62	54	46	41	36	33	30	28	25
	150	55	55	50	43	38	34	31	29	26	25
	160	49	49	46	40	36	33	30	27	25	24
Category D	100	94	87	69	58	49	43	38	34	31	29
	105	87	82	66	55	48	42	37	34	31	28
	110	81	78	63	53	46	41	36	33	30	27
	120	70	70	58	50	43	38	34	31	29	26
	130	61	61	53	46	40	36	33	30	27	25
	140	53	53	49	43	38	34	31	28	26	24
	150	47	47	45	40	35	32	29	27	25	23
	160	42	42	41	37	33	30	28	26	24	22
170	38	38	38	34	31	28	26	24	23	21	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHLS Products

Table 5B		Roof Height:	0-30 ft		Panel Orientation:	Portrait					
		Roof Angle:	28 - 45		degrees						
		Roof Wind Zone:	2								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	107	98	75	60	50	43	38	34	30	27
	105	107	96	73	59	49	42	37	33	30	27
	110	106	92	70	57	48	41	36	33	29	27
	120	94	84	66	54	46	40	35	32	29	26
	130	83	77	61	51	44	38	34	31	28	25
	140	73	71	57	48	42	37	33	29	27	25
	150	65	65	54	46	40	35	31	28	26	24
	160	59	59	50	43	38	33	30	27	25	23
Category C	100	96	85	66	55	46	40	35	32	29	26
	105	89	81	64	53	45	39	35	31	28	26
	110	83	77	61	51	44	38	34	30	28	25
	120	72	70	57	48	41	36	32	29	27	25
	130	63	63	52	45	39	34	31	28	26	24
	140	55	55	48	42	37	33	29	27	25	23
	150	49	49	44	39	34	31	28	26	24	22
	160	44	44	41	36	32	29	27	24	23	21
Category D	100	84	78	62	51	44	38	34	31	28	25
	105	78	74	59	50	43	37	33	30	27	25
	110	72	70	57	48	41	36	32	29	27	25
	120	62	62	52	44	39	34	31	28	26	24
	130	54	54	48	41	36	32	29	27	24	23
	140	48	48	44	38	34	30	28	25	23	22
	150	42	42	40	35	32	29	26	24	22	21
	160	38	38	37	33	30	27	25	23	21	20
	170	34	34	34	30	28	25	23	22	20	19

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHSS Products

Table 6A		Roof Height:	0-30 ft		Panel Orientation:	Portrait					
		Roof Angle:	28 - 45 degrees								
		Roof Wind Zone:	3								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	107	98	84	67	56	48	42	37	34	31
	105	107	98	81	66	55	47	41	37	33	30
	110	106	97	79	64	54	46	41	36	33	30
	120	101	94	74	60	51	45	39	35	32	29
	130	93	86	69	57	49	43	38	34	31	28
	140	82	79	64	54	47	41	37	33	30	28
	150	73	73	60	51	44	39	35	32	29	27
	160	66	66	56	48	42	37	34	31	28	26
Category C	100	101	94	74	61	52	45	40	35	32	29
	105	98	91	71	59	50	44	39	35	32	29
	110	92	86	69	57	49	43	38	34	31	28
	120	80	78	63	53	46	41	36	33	30	27
	130	70	70	58	50	43	38	35	31	29	26
	140	62	62	54	46	41	36	33	30	28	25
	150	55	55	50	43	38	34	31	29	26	25
	160	49	49	46	40	36	33	30	27	25	24
Category D	100	94	87	69	58	49	43	38	34	31	29
	105	87	82	66	55	48	42	37	34	31	28
	110	81	78	63	53	46	41	36	33	30	27
	120	70	70	58	50	43	38	34	31	29	26
	130	61	61	53	46	40	36	33	30	27	25
	140	53	53	49	43	38	34	31	28	26	24
	150	47	47	45	40	35	32	29	27	25	23
	160	42	42	41	37	33	30	28	26	24	22
	170	38	38	38	34	31	28	26	24	23	21

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"

Rail Spans for IronRidge Series XR100 Roof Mount for use with QMHLS Products

Table 6B		Roof Height:	0-30 ft		Panel Orientation:	Portrait					
		Roof Angle:	28 - 45		degrees						
		Roof Wind Zone:	3								
XR100 Rail	Wind Speed	Ground Snow Load									
Exposure	mph	0 psf	10 psf	20 psf	30 psf	40 psf	50 psf	60 psf	70 psf	80 psf	90 psf
Category B	100	107	98	75	60	50	43	38	34	30	27
	105	107	96	73	59	49	42	37	33	30	27
	110	106	92	70	57	48	41	36	33	29	27
	120	94	84	66	54	46	40	35	32	29	26
	130	83	77	61	51	44	38	34	31	28	25
	140	73	71	57	48	42	37	33	29	27	25
	150	65	65	54	46	40	35	31	28	26	24
	160	59	59	50	43	38	33	30	27	25	23
Category C	100	96	85	66	55	46	40	35	32	29	26
	105	89	81	64	53	45	39	35	31	28	26
	110	83	77	61	51	44	38	34	30	28	25
	120	72	70	57	48	41	36	32	29	27	25
	130	63	63	52	45	39	34	31	28	26	24
	140	55	55	48	42	37	33	29	27	25	23
	150	49	49	44	39	34	31	28	26	24	22
	160	44	44	41	36	32	29	27	24	23	21
Category D	100	84	78	62	51	44	38	34	31	28	25
	105	78	74	59	50	43	37	33	30	27	25
	110	72	70	57	48	41	36	32	29	27	25
	120	62	62	52	44	39	34	31	28	26	24
	130	54	54	48	41	36	32	29	27	24	23
	140	48	48	44	38	34	30	28	25	23	22
	150	42	42	40	35	32	29	26	24	22	21
	160	38	38	37	33	30	27	25	23	21	20
	170	34	34	34	30	28	25	23	22	20	19

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable tension, compression, and lateral values of Quick Mount products per test reports.
2. Panels are assumed to be in portrait orientation with a maximum length of 67.5"