



4/26/2017

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

RE: Quick Mount PV TRM 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 Tile Replacement Mount System for use in conjunction with the IronRidge XR100 Rail, Roof Flush Mount System. The TRM product line includes the option of a 4.5" and 5.5" post.

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
- Construction Testing Services, Quick Mount PV Load Testing – Tile Replacement Mount [QMPV# 1-28-2016-Rev C], Job Number 11304, April 29, 2016
- Construction Testing Services, Quick Mount PV Load Testing – Tile Replacement Mount [QMPV# 1-28-2016-Rev C], Job Number 11304, January 6, 2017
- Structural Enginuity, Inc., Quick Mount PV Tile Replacement Mount, Project Number 16411.00, November 16, 2016
- Structural Enginuity, Inc., Quick Mount PV Tile Replacement Mount 5.5" Extension Post TRM Assembly Certification, Project Number 16473.00, January 11, 2017

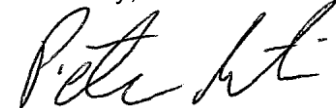
SEI has determined that the Tile Replacement Mount is suitable for use with the IronRidge XR100 Rail, Roof Flush Mount System. The approved installation and allowable loads for the Quick Mount PV TRM products is outlined in the Structural Enginuity, Inc. letters referenced above. The allowable load values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

Table 1: TRM Allowable Loads		
Load Direction	Post Height	Allowable Load
Uplift	4.5"	623
	5.5"	623
Lateral	4.5"	197
	5.5"	195
Compression	4.5"	659
	5.5"	659

SEI has prepared allowable rail span charts for the IronRidge XR100 Rail System used in conjunction with the Quick Mount PV TRM 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 Tile Replacement 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@structuralenginuityinc.com



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



4/26/17

Structural Enginuity Inc.

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

Table 1A		Roof Height:	0-30 ft		Post Height:	4.5"					
		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	83	71	56	46	39	34	30	27
	105	112	97	83	71	56	46	39	34	30	27
	110	112	97	83	71	56	46	39	34	30	27
	120	112	97	83	71	56	46	39	34	30	27
	130	112	97	83	71	56	46	39	34	30	27
	140	105	97	83	71	56	46	39	34	30	27
	150	98	96	82	71	56	46	39	34	30	27
	160	92	92	81	71	56	46	39	34	30	27
Category C	170	87	87	79	71	56	46	39	34	30	27
	100	112	97	83	71	56	46	39	34	30	27
	105	112	97	83	71	56	46	39	34	30	27
	110	112	97	83	71	56	46	39	34	30	27
	120	103	97	83	71	56	46	39	34	30	27
	130	96	95	82	71	56	46	39	34	30	27
	140	89	89	80	71	56	46	39	34	30	27
	150	84	84	78	70	56	46	39	34	30	27
Category D	160	79	79	76	69	56	46	39	34	30	27
	170	74	74	74	67	56	46	39	34	30	27
	100	112	97	83	71	56	46	39	34	30	27
	105	108	97	83	71	56	46	39	34	30	27
	110	103	97	83	71	56	46	39	34	30	27
	120	95	95	82	71	56	46	39	34	30	27
	130	88	88	80	71	56	46	39	34	30	27
	140	82	82	78	70	56	46	39	34	30	27
150	77	77	76	68	56	46	39	34	30	27	
160	73	73	73	67	56	46	39	34	30	27	
170	68	68	68	65	56	46	39	34	30	27	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 1B		Roof Height:	0-30 ft		Post Height:	5.5"					
		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	83	71	55	45	38	33	29	26
	105	112	97	83	71	55	45	38	33	29	26
	110	112	97	83	71	55	45	38	33	29	26
	120	112	97	83	71	55	45	38	33	29	26
	130	112	97	83	71	55	45	38	33	29	26
	140	105	97	83	71	55	45	38	33	29	26
	150	98	96	82	71	55	45	38	33	29	26
	160	92	92	81	71	55	45	38	33	29	26
Category C	170	87	87	79	71	55	45	38	33	29	26
	100	112	97	83	71	55	45	38	33	29	26
	105	112	97	83	71	55	45	38	33	29	26
	110	112	97	83	71	55	45	38	33	29	26
	120	103	97	83	71	55	45	38	33	29	26
	130	96	95	82	71	55	45	38	33	29	26
	140	89	89	80	71	55	45	38	33	29	26
	150	84	84	78	70	55	45	38	33	29	26
Category D	160	79	79	76	69	55	45	38	33	29	26
	170	74	74	74	67	55	45	38	33	29	26
	100	112	97	83	71	55	45	38	33	29	26
	105	108	97	83	71	55	45	38	33	29	26
	110	103	97	83	71	55	45	38	33	29	26
	120	95	95	82	71	55	45	38	33	29	26
	130	88	88	80	71	55	45	38	33	29	26
	140	82	82	78	70	55	45	38	33	29	26
150	77	77	76	68	55	45	38	33	29	26	
160	73	73	73	67	55	45	38	33	29	26	
170	68	68	68	65	55	45	38	33	29	26	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 2A		Roof Height:	0-30 ft		Post Height:	4.5"					
		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	83	71	56	46	39	34	30	27
	105	102	97	83	71	56	46	39	34	30	27
	110	97	97	83	71	56	46	39	34	30	27
	120	90	90	83	71	56	46	39	34	30	27
	130	83	83	83	71	56	46	39	34	30	27
	140	77	77	77	71	56	46	39	34	30	27
	150	73	73	73	71	56	46	39	34	30	27
	160	68	68	68	68	56	46	39	34	30	27
Category C	100	91	91	83	71	56	46	39	34	30	27
	105	87	87	83	71	56	46	39	34	30	27
	110	83	83	83	71	56	46	39	34	30	27
	120	76	76	76	71	56	46	39	34	30	27
	130	71	71	71	71	56	46	39	34	30	27
	140	66	66	66	66	56	46	39	34	30	27
	150	57	57	57	57	56	46	39	34	30	27
	160	50	50	50	50	50	46	39	34	30	27
Category D	100	84	84	83	71	56	46	39	34	30	27
	105	80	80	80	71	56	46	39	34	30	27
	110	77	77	77	71	56	46	39	34	30	27
	120	70	70	70	70	56	46	39	34	30	27
	130	65	65	65	65	56	46	39	34	30	27
	140	55	55	55	55	55	46	39	34	30	27
	150	48	48	48	48	48	46	39	34	30	27
	160	42	42	42	42	42	42	39	34	30	27
170	37	37	37	37	37	37	37	34	30	27	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 2B		Roof Height:	0-30 ft		Post Height:	5.5"					
		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	83	71	55	45	38	33	29	26
	105	102	97	83	71	55	45	38	33	29	26
	110	97	97	83	71	55	45	38	33	29	26
	120	90	90	83	71	55	45	38	33	29	26
	130	83	83	83	71	55	45	38	33	29	26
	140	77	77	77	71	55	45	38	33	29	26
	150	73	73	73	71	55	45	38	33	29	26
	160	68	68	68	68	55	45	38	33	29	26
Category C	100	91	91	83	71	55	45	38	33	29	26
	105	87	87	83	71	55	45	38	33	29	26
	110	83	83	83	71	55	45	38	33	29	26
	120	76	76	76	71	55	45	38	33	29	26
	130	71	71	71	71	55	45	38	33	29	26
	140	66	66	66	66	55	45	38	33	29	26
	150	57	57	57	57	55	45	38	33	29	26
	160	50	50	50	50	50	45	38	33	29	26
Category D	100	84	84	83	71	55	45	38	33	29	26
	105	80	80	80	71	55	45	38	33	29	26
	110	77	77	77	71	55	45	38	33	29	26
	120	70	70	70	70	55	45	38	33	29	26
	130	65	65	65	65	55	45	38	33	29	26
	140	55	55	55	55	55	45	38	33	29	26
	150	48	48	48	48	48	45	38	33	29	26
	160	42	42	42	42	42	42	38	33	29	26
170	37	37	37	37	37	37	37	33	29	26	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 3A		Roof Height:	0-30 ft					Post Height:	4.5"			
		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	83	71	56	46	39	34	30	27	
	105	83	83	83	71	56	46	39	34	30	27	
	110	80	80	80	71	56	46	39	34	30	27	
	120	73	73	73	71	56	46	39	34	30	27	
	130	68	68	68	68	56	46	39	34	30	27	
	140	60	60	60	60	56	46	39	34	30	27	
	150	52	52	52	52	52	46	39	34	30	27	
	160	45	45	45	45	45	45	39	34	30	27	
Category C	100	74	74	74	71	56	46	39	34	30	27	
	105	71	71	71	71	56	46	39	34	30	27	
	110	68	68	68	68	56	46	39	34	30	27	
	120	58	58	58	58	56	46	39	34	30	27	
	130	49	49	49	49	49	46	39	34	30	27	
	140	42	42	42	42	42	42	39	34	30	27	
	150	37	37	37	37	37	37	37	34	30	27	
	160	32	32	32	32	32	32	32	32	30	27	
Category D	100	68	68	68	68	56	46	39	34	30	27	
	105	65	65	65	65	56	46	39	34	30	27	
	110	59	59	59	59	56	46	39	34	30	27	
	120	49	49	49	49	49	46	39	34	30	27	
	130	41	41	41	41	41	41	39	34	30	27	
	140	36	36	36	36	36	36	36	34	30	27	
	150	31	31	31	31	31	31	31	31	30	27	
	160	27	27	27	27	27	27	27	27	27	27	
	170	24	24	24	24	24	24	24	24	24	24	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 3B		Roof Height:	0-30 ft		Post Height:	5.5"					
		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	83	71	55	45	38	33	29	26
	105	83	83	83	71	55	45	38	33	29	26
	110	80	80	80	71	55	45	38	33	29	26
	120	73	73	73	71	55	45	38	33	29	26
	130	68	68	68	68	55	45	38	33	29	26
	140	60	60	60	60	55	45	38	33	29	26
	150	52	52	52	52	52	45	38	33	29	26
	160	45	45	45	45	45	45	38	33	29	26
Category C	100	74	74	74	71	55	45	38	33	29	26
	105	71	71	71	71	55	45	38	33	29	26
	110	68	68	68	68	55	45	38	33	29	26
	120	58	58	58	58	55	45	38	33	29	26
	130	49	49	49	49	49	45	38	33	29	26
	140	42	42	42	42	42	42	38	33	29	26
	150	37	37	37	37	37	37	37	33	29	26
	160	32	32	32	32	32	32	32	32	29	26
Category D	100	68	68	68	68	55	45	38	33	29	26
	105	65	65	65	65	55	45	38	33	29	26
	110	59	59	59	59	55	45	38	33	29	26
	120	49	49	49	49	49	45	38	33	29	26
	130	41	41	41	41	41	41	38	33	29	26
	140	36	36	36	36	36	36	36	33	29	26
	150	31	31	31	31	31	31	31	31	29	26
	160	27	27	27	27	27	27	27	27	27	26
	170	24	24	24	24	24	24	24	24	24	24

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 4A		Roof Height:	0-30 ft		Post Height:	4.5"					
		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	80	59	47	38	33	28	25	23
	105	107	98	80	59	47	38	33	28	25	23
	110	106	97	80	59	47	38	33	28	25	23
	120	101	94	80	59	47	38	33	28	25	23
	130	96	91	80	59	47	38	33	28	25	23
	140	91	88	78	59	47	38	33	28	25	23
	150	87	85	76	59	47	38	33	28	25	23
	160	83	82	74	59	47	38	33	28	25	23
Category C	100	101	94	80	59	47	38	33	28	25	23
	105	98	93	80	59	47	38	33	28	25	23
	110	95	91	80	59	47	38	33	28	25	23
	120	90	87	77	59	47	38	33	28	25	23
	130	85	84	75	59	47	38	33	28	25	23
	140	81	80	72	59	47	38	33	28	25	23
	150	77	76	70	59	47	38	33	28	25	23
	160	73	73	68	59	47	38	33	28	25	23
Category D	100	96	91	80	59	47	38	33	28	25	23
	105	93	89	79	59	47	38	33	28	25	23
	110	90	87	77	59	47	38	33	28	25	23
	120	85	83	75	59	47	38	33	28	25	23
	130	80	80	72	59	47	38	33	28	25	23
	140	75	75	70	59	47	38	33	28	25	23
	150	71	71	67	59	47	38	33	28	25	23
	160	68	68	65	59	47	38	33	28	25	23
	170	64	64	52	58	47	38	33	28	25	23

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 4B		Roof Height:	0-30 ft		Post Height:	5.5"					
		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	80	58	46	38	32	28	25	22
	105	107	98	80	58	46	38	32	28	25	22
	110	106	97	80	58	46	38	32	28	25	22
	120	101	94	80	58	46	38	32	28	25	22
	130	96	91	80	58	46	38	32	28	25	22
	140	91	88	78	58	46	38	32	28	25	22
	150	87	85	76	58	46	38	32	28	25	22
	160	83	82	74	58	46	38	32	28	25	22
Category C	100	101	94	80	58	46	38	32	28	25	22
	105	98	93	80	58	46	38	32	28	25	22
	110	95	91	80	58	46	38	32	28	25	22
	120	90	87	77	58	46	38	32	28	25	22
	130	85	84	75	58	46	38	32	28	25	22
	140	81	80	72	58	46	38	32	28	25	22
	150	77	76	70	58	46	38	32	28	25	22
	160	73	73	68	58	46	38	32	28	25	22
Category D	100	96	91	80	58	46	38	32	28	25	22
	105	93	89	79	58	46	38	32	28	25	22
	110	90	87	77	58	46	38	32	28	25	22
	120	85	83	75	58	46	38	32	28	25	22
	130	80	80	72	58	46	38	32	28	25	22
	140	75	75	70	58	46	38	32	28	25	22
	150	71	71	67	58	46	38	32	28	25	22
	160	68	68	65	58	46	38	32	28	25	22
170	64	64	52	58	46	38	32	28	25	22	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 5A		Roof Height:	0-30 ft		Post Height:	4.5"					
		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	80	59	47	38	33	28	25	23
	105	107	98	80	59	47	38	33	28	25	23
	110	106	97	80	59	47	38	33	28	25	23
	120	101	94	80	59	47	38	33	28	25	23
	130	94	91	80	59	47	38	33	28	25	23
	140	88	88	78	59	47	38	33	28	25	23
	150	83	83	76	59	47	38	33	28	25	23
	160	78	78	74	59	47	38	33	28	25	23
Category C	100	101	94	80	59	47	38	33	28	25	23
	105	98	93	80	59	47	38	33	28	25	23
	110	94	91	80	59	47	38	33	28	25	23
	120	87	87	77	59	47	38	33	28	25	23
	130	81	81	75	59	47	38	33	28	25	23
	140	76	76	72	59	47	38	33	28	25	23
	150	71	71	70	59	47	38	33	28	25	23
	160	67	67	67	59	47	38	33	28	25	23
Category D	100	95	91	80	59	47	38	33	28	25	23
	105	91	89	79	59	47	38	33	28	25	23
	110	87	87	77	59	47	38	33	28	25	23
	120	81	81	75	59	47	38	33	28	25	23
	130	75	75	72	59	47	38	33	28	25	23
	140	70	70	70	59	47	38	33	28	25	23
	150	66	66	66	59	47	38	33	28	25	23
	160	60	60	60	59	47	38	33	28	25	23
170	53	53	53	53	47	38	33	28	25	23	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 5B		Roof Height:	0-30 ft		Post Height:	5.5"					
		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	80	58	46	38	32	28	25	22
	105	107	98	80	58	46	38	32	28	25	22
	110	106	97	80	58	46	38	32	28	25	22
	120	101	94	80	58	46	38	32	28	25	22
	130	94	91	80	58	46	38	32	28	25	22
	140	88	88	78	58	46	38	32	28	25	22
	150	83	83	76	58	46	38	32	28	25	22
	160	78	78	74	58	46	38	32	28	25	22
Category C	100	101	94	80	58	46	38	32	28	25	22
	105	98	93	80	58	46	38	32	28	25	22
	110	94	91	80	58	46	38	32	28	25	22
	120	87	87	77	58	46	38	32	28	25	22
	130	81	81	75	58	46	38	32	28	25	22
	140	76	76	72	58	46	38	32	28	25	22
	150	71	71	70	58	46	38	32	28	25	22
	160	67	67	67	58	46	38	32	28	25	22
Category D	100	95	91	80	58	46	38	32	28	25	22
	105	91	89	79	58	46	38	32	28	25	22
	110	87	87	77	58	46	38	32	28	25	22
	120	81	81	75	58	46	38	32	28	25	22
	130	75	75	72	58	46	38	32	28	25	22
	140	70	70	70	58	46	38	32	28	25	22
	150	66	66	66	58	46	38	32	28	25	22
	160	60	60	60	58	46	38	32	28	25	22
170	53	53	53	53	46	38	32	28	25	22	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 6A		Roof Height:	0-30 ft		Post Height:	4.5"					
		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	80	59	47	38	33	28	25	23
	105	107	98	80	59	47	38	33	28	25	23
	110	106	97	80	59	47	38	33	28	25	23
	120	101	94	80	59	47	38	33	28	25	23
	130	94	91	80	59	47	38	33	28	25	23
	140	88	88	78	59	47	38	33	28	25	23
	150	83	83	76	59	47	38	33	28	25	23
	160	78	78	74	59	47	38	33	28	25	23
Category C	100	101	94	80	59	47	38	33	28	25	23
	105	98	93	80	59	47	38	33	28	25	23
	110	94	91	80	59	47	38	33	28	25	23
	120	87	87	77	59	47	38	33	28	25	23
	130	81	81	75	59	47	38	33	28	25	23
	140	76	76	72	59	47	38	33	28	25	23
	150	71	71	70	59	47	38	33	28	25	23
	160	67	67	67	59	47	38	33	28	25	23
Category D	100	95	91	80	59	47	38	33	28	25	23
	105	91	89	79	59	47	38	33	28	25	23
	110	87	87	77	59	47	38	33	28	25	23
	120	81	81	75	59	47	38	33	28	25	23
	130	75	75	72	59	47	38	33	28	25	23
	140	70	70	70	59	47	38	33	28	25	23
	150	66	66	66	59	47	38	33	28	25	23
	160	60	60	60	59	47	38	33	28	25	23
170	53	53	53	53	47	38	33	28	25	23	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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 TRM Products

Table 6B		Roof Height:	0-30 ft		Post Height:	5.5"					
		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	80	58	46	38	32	28	25	22
	105	107	98	80	58	46	38	32	28	25	22
	110	106	97	80	58	46	38	32	28	25	22
	120	101	94	80	58	46	38	32	28	25	22
	130	94	91	80	58	46	38	32	28	25	22
	140	88	88	78	58	46	38	32	28	25	22
	150	83	83	76	58	46	38	32	28	25	22
	160	78	78	74	58	46	38	32	28	25	22
Category C	100	101	94	80	58	46	38	32	28	25	22
	105	98	93	80	58	46	38	32	28	25	22
	110	94	91	80	58	46	38	32	28	25	22
	120	87	87	77	58	46	38	32	28	25	22
	130	81	81	75	58	46	38	32	28	25	22
	140	76	76	72	58	46	38	32	28	25	22
	150	71	71	70	58	46	38	32	28	25	22
	160	67	67	67	58	46	38	32	28	25	22
Category D	100	95	91	80	58	46	38	32	28	25	22
	105	91	89	79	58	46	38	32	28	25	22
	110	87	87	77	58	46	38	32	28	25	22
	120	81	81	75	58	46	38	32	28	25	22
	130	75	75	72	58	46	38	32	28	25	22
	140	70	70	70	58	46	38	32	28	25	22
	150	66	66	66	58	46	38	32	28	25	22
	160	60	60	60	58	46	38	32	28	25	22
170	53	53	53	53	46	38	32	28	25	22	

Notes:

1. Tables are based on critical rail span for load combinations as specified in chapter 2 of the ASCE 7-10 and allowable uplift 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"