



12/29/2017

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

RE: Quick Mount PV QBase Mount System for use with
Everest CrossRail 48 PV Panel Mounting System

SEI Project No.: 17054.00

Dear Mr. Green

Structural Enginuity Inc. (SEI) has completed its review of the Quickmount PV QBase Mount System for use in conjunction with the Everest CrossRail 48 PV Panel Mounting System. The QBase product line includes the Composition Mount (QMNC), Metal, Shake, & Slate Mount (QMNS), Standard Flat Tile Mount (QMSFT), Universal Tile Mount (QMUTM), and the Low Slope Mount (QMLSH).

The review was based on the following reference data:

- Moment Engineering+Design, CrossRail PV Panel Mounting System Evaluation, January 13, 2017
- Applied Materials & Engineering, New Construction Composition Mount (QMNC 3-3/4" Finished Height) Load Testing, Project Number 111114C, March 23, 2011
- Applied Materials & Engineering, Quick Mount QBase with 6.5" Post as Used in Low Slope Mount (QMLSH-7) & Universal Tile Mount (QMUTM) Load Testing, Project Number 111316C, July 5, 2011
- Applied Materials & Engineering, Low Slope Mount QMLSH-9 Hardware Load Testing, Project Number 111203C, May 5, 2011
- Applied Materials & Engineering, Low Slope Mount QMLSH-12 Hardware Load Testing, Project Number 111204C, May 9, 2011
- Eclipse Engineering, Allowable Load Capacities for the Quick Mount PV QBase Mount system, June 19, 2014

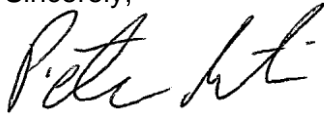
SEI has determined that the QMNC, QMNS, QMSFT, QMUTM, and QMLSH mounts are suitable for use with the Everest CrossRail 48 System. The approved installation and allowable loads for the Quick Mount PV QBase products is outlined in the Eclipse Engineering report referenced above. The allowable load values are shown below, no additional load duration factors may be applied to these values.

Table 1: QBase Roof Mounts					
Load Direction	Specific Gravity of Lumber Rafter	QMNC, QMNS, QMSFT	QMUTM, QMLSH-7	QMLSH-9	QMLSH-12
Tension	0.5	1179 lb.			
Shear - Parallel to Rafter	0.5	686 lb.	257 lb.	257 lb.	168 lb.
Shear - Perpendicular to Rafter	0.5	464 lb.	171 lb.	216 lb.	122 lb.

SEI has prepared allowable rail span charts for the Everest CrossRail 48 System used in conjunction with the Quick Mount PV QBase 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 and shear forces of the QBase mounts. 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 Everest CrossRail System 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,



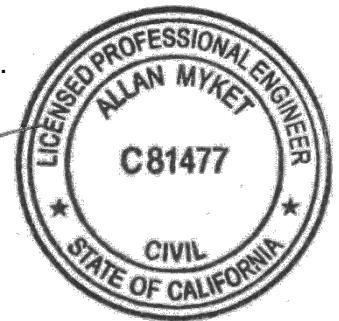
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12/29/2017

Structural Engenuity Inc.

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 1A		Roof Height:	0 - 30 feet											Panel Orientation: Portrait					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species: Douglas Fir Specific Gravity: 0.5					
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	94	87	76	65	57	51	88	87	76	65	57	51	76	76	76	65	57	51
	115	94	87	76	65	57	51	85	85	76	65	57	51	73	73	73	65	57	51
	120	94	87	76	65	57	51	83	83	76	65	57	51	70	70	70	65	57	51
	130	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51
	140	90	85	74	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	150	86	83	73	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	160	82	82	72	63	57	51	64	64	64	63	57	51	52	52	52	52	52	51
	170	78	78	70	62	57	51	60	60	60	60	57	51	49	49	49	49	49	49
	180	74	74	69	61	56	51	57	57	57	57	56	51	46	46	46	46	46	46
	200	68	68	65	59	54	50	51	51	51	51	51	50	41	41	41	41	41	41

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"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 1B		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir															
		Specific Gravity: 0.5																	
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	94	87	76	65	55	45	88	87	76	65	55	45	76	76	76	65	55	45
	115	94	87	76	65	55	45	85	85	76	65	55	45	73	73	73	65	55	45
	120	94	87	76	65	55	45	83	83	76	65	55	45	70	70	70	65	55	45
	130	93	86	75	65	55	45	78	78	75	65	55	45	65	65	65	65	55	45
	140	90	85	74	65	55	45	68	68	68	65	55	45	56	56	56	56	55	45
	150	86	83	73	65	55	45	68	68	68	65	55	45	56	56	56	56	55	45
	160	82	82	72	63	55	45	64	64	64	63	55	45	52	52	52	52	52	45
	170	78	78	70	62	55	45	60	60	60	60	55	45	49	49	49	49	49	45
	180	74	74	69	61	55	45	57	57	57	57	55	45	46	46	46	46	46	45
	200	68	68	65	59	54	45	51	51	51	51	51	45	41	41	41	41	41	41

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 1C		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir		Specific Gravity: 0.5													
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	94	87	76	65	55	45	88	87	76	65	55	45	76	76	76	65	55	45
	115	94	87	76	65	55	45	85	85	76	65	55	45	73	73	73	65	55	45
	120	94	87	76	65	55	45	83	83	76	65	55	45	70	70	70	65	55	45
	130	93	86	75	65	55	45	78	78	75	65	55	45	65	65	65	65	55	45
	140	90	85	74	65	55	45	68	68	68	65	55	45	56	56	56	56	55	45
	150	86	83	73	65	55	45	68	68	68	65	55	45	56	56	56	56	55	45
	160	82	82	72	63	55	45	64	64	64	63	55	45	52	52	52	52	52	45
	170	78	78	70	62	55	45	60	60	60	60	55	45	49	49	49	49	49	45
	180	74	74	69	61	55	45	57	57	57	57	55	45	46	46	46	46	46	45
	200	68	68	65	59	54	45	51	51	51	51	51	45	41	41	41	41	41	41

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 1D		Roof Height:	0 - 30 feet											Panel Orientation:	Portrait					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir					
														Specific Gravity:	0.5					
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs > 7° to 27°	110	94	87	66	47	36	29	88	87	66	47	36	29	76	76	66	47	36	29	
	115	94	87	66	47	36	29	85	85	66	47	36	29	73	73	66	47	36	29	
	120	94	87	66	47	36	29	83	83	66	47	36	29	70	70	66	47	36	29	
	130	93	86	66	47	36	29	78	78	66	47	36	29	65	65	65	47	36	29	
	140	90	85	66	47	36	29	68	68	66	47	36	29	56	56	56	47	36	29	
	150	86	83	66	47	36	29	68	68	66	47	36	29	56	56	56	47	36	29	
	160	82	82	66	47	36	29	64	64	64	47	36	29	52	52	52	47	36	29	
	170	78	78	66	47	36	29	60	60	60	47	36	29	49	49	49	47	36	29	
	180	74	74	66	47	36	29	57	57	57	47	36	29	46	46	46	46	36	29	
	200	68	68	65	47	36	29	51	51	51	47	36	29	41	41	41	41	36	29	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 2A		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir		Specific Gravity: 0.5													
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51
	115	91	85	75	65	57	51	75	75	75	65	57	51	62	62	62	62	57	51
	120	89	85	74	65	57	51	72	72	72	65	57	51	59	59	59	59	57	51
	130	84	83	73	64	57	51	67	67	67	64	57	51	54	54	54	54	54	51
	140	80	80	71	63	57	51	62	62	62	62	57	51	50	50	50	50	50	50
	150	76	76	69	61	56	51	57	57	57	57	56	51	47	47	47	47	47	47
	160	72	72	67	60	55	51	54	54	54	54	54	51	44	44	44	44	44	44
	170	67	67	65	59	54	50	50	50	50	50	50	50	41	41	41	41	41	41
	180	63	63	63	58	53	49	48	48	48	48	48	48	39	39	39	39	39	39
	200	57	57	57	55	51	48	43	43	43	43	43	43	35	35	35	35	35	35

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"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 2B		Roof Height:	0 - 30 feet											Panel Orientation:	Portrait					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir					
														Specific Gravity:	0.5					
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
C		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs > 7° to 27°	110	93	86	75	65	55	45	78	78	75	65	55	45	65	65	65	65	55	45	
	115	91	85	75	65	55	45	75	75	75	65	55	45	62	62	62	62	55	45	
	120	89	85	74	65	55	45	72	72	72	65	55	45	59	59	59	59	55	45	
	130	84	83	73	64	55	45	67	67	67	64	55	45	54	54	54	54	54	45	
	140	80	80	71	63	55	45	62	62	62	62	55	45	50	50	50	50	50	45	
	150	76	76	69	61	55	45	57	57	57	57	55	45	47	47	47	47	47	45	
	160	72	72	67	60	55	45	54	54	54	54	54	45	44	44	44	44	44	44	
	170	67	67	65	59	54	45	50	50	50	50	50	45	41	41	41	41	41	41	
	180	63	63	63	58	53	45	48	48	48	48	48	45	39	39	39	39	39	39	
	200	57	57	57	55	51	45	43	43	43	43	43	43	35	35	35	35	35	35	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 2C		Roof Height:	0 - 30 feet											Panel Orientation:	Portrait						
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir						
																Specific Gravity:	0.5				
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3							
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)							
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50		
Roofs > 7° to 27°	110	93	86	75	65	55	45	78	78	75	65	55	45	65	65	65	65	55	45		
	115	91	85	75	65	55	45	75	75	75	65	55	45	62	62	62	62	55	45		
	120	89	85	74	65	55	45	72	72	72	65	55	45	59	59	59	59	55	45		
	130	84	83	73	64	55	45	67	67	67	64	55	45	54	54	54	54	54	45		
	140	80	80	71	63	55	45	62	62	62	62	55	45	50	50	50	50	50	45		
	150	76	76	69	61	55	45	57	57	57	57	55	45	47	47	47	47	47	45		
	160	72	72	67	60	55	45	54	54	54	54	54	45	44	44	44	44	44	44		
	170	67	67	65	59	54	45	50	50	50	50	50	45	41	41	41	41	41	41		
	180	63	63	63	58	53	45	48	48	48	48	48	45	39	39	39	39	39	39		
	200	57	57	57	55	51	45	43	43	43	43	43	43	35	35	35	35	35	35		

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 2D		Roof Height:	0 - 30 feet											Panel Orientation:	Portrait					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir					
														Specific Gravity:	0.5					
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
C		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs > 7° to 27°	110	93	86	66	47	36	29	78	78	66	47	36	29	65	65	65	47	36	29	
	115	91	85	66	47	36	29	75	75	66	47	36	29	62	62	62	47	36	29	
	120	89	85	66	47	36	29	72	72	66	47	36	29	59	59	59	47	36	29	
	130	84	83	66	47	36	29	67	67	66	47	36	29	54	54	54	47	36	29	
	140	80	80	66	47	36	29	62	62	62	47	36	29	50	50	50	47	36	29	
	150	76	76	66	47	36	29	57	57	57	47	36	29	47	47	47	47	36	29	
	160	72	72	66	47	36	29	54	54	54	47	36	29	44	44	44	44	36	29	
	170	67	67	65	47	36	29	50	50	50	47	36	29	41	41	41	41	36	29	
	180	63	63	63	47	36	29	48	48	48	47	36	29	39	39	39	39	36	29	
	200	57	57	57	47	36	29	43	43	43	43	36	29	35	35	35	35	35	29	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 3A		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	90	85	74	65	57	51	72	72	74	65	57	51	59	59	59	59	57	51
	115	87	84	73	65	57	51	69	69	69	65	57	51	57	57	57	57	57	51
	120	84	83	73	64	57	51	66	66	66	64	57	51	54	54	54	54	54	51
	130	79	79	71	63	57	51	61	61	61	61	57	51	50	50	50	50	50	50
	140	74	74	69	61	56	51	56	56	56	56	56	51	46	46	46	46	46	46
	150	70	70	67	60	55	51	53	53	53	53	53	51	43	43	43	43	43	43
	160	66	66	65	58	54	50	49	49	49	49	49	49	40	40	40	40	40	40
	170	62	62	62	57	52	49	46	46	46	46	46	46	38	38	38	38	38	38
	180	58	58	58	55	51	48	44	44	44	44	44	44	36	36	36	36	36	36
	200	52	52	52	52	49	46	39	39	39	39	39	39	32	32	32	32	32	32

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"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 3B		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	90	85	74	65	55	45	72	72	74	65	55	45	59	59	59	59	55	45
	115	87	84	73	65	55	45	69	69	69	65	55	45	57	57	57	57	55	45
	120	84	83	73	64	55	45	66	66	66	64	55	45	54	54	54	54	54	45
	130	79	79	71	63	55	45	61	61	61	61	55	45	50	50	50	50	50	45
	140	74	74	69	61	55	45	56	56	56	56	55	45	46	46	46	46	46	45
	150	70	70	67	60	55	45	53	53	53	53	53	45	43	43	43	43	43	43
	160	66	66	65	58	54	45	49	49	49	49	49	45	40	40	40	40	40	40
	170	62	62	62	57	52	45	46	46	46	46	46	45	38	38	38	38	38	38
	180	58	58	58	55	51	45	44	44	44	44	44	44	36	36	36	36	36	36
	200	52	52	52	52	49	45	39	39	39	39	39	39	32	32	32	32	32	32

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 3C		Roof Height:	0 - 30 feet											Panel Orientation:	Portrait					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir					
														Specific Gravity:	0.5					
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs > 7° to 27°	110	90	85	74	65	55	45	72	72	74	65	55	45	59	59	59	59	55	45	
	115	87	84	73	65	55	45	69	69	69	65	55	45	57	57	57	57	55	45	
	120	84	83	73	64	55	45	66	66	66	64	55	45	54	54	54	54	54	45	
	130	79	79	71	63	55	45	61	61	61	61	55	45	50	50	50	50	50	45	
	140	74	74	69	61	55	45	56	56	56	56	55	45	46	46	46	46	46	45	
	150	70	70	67	60	55	45	53	53	53	53	53	45	43	43	43	43	43	43	
	160	66	66	65	58	54	45	49	49	49	49	49	45	40	40	40	40	40	40	
	170	62	62	62	57	52	45	46	46	46	46	46	45	38	38	38	38	38	38	
	180	58	58	58	55	51	45	44	44	44	44	44	44	36	36	36	36	36	36	
	200	52	52	52	52	49	45	39	39	39	39	39	39	32	32	32	32	32	32	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 3D		Roof Height:	0 - 30 feet											Panel Orientation:	Portrait					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir					
														Specific Gravity:	0.5					
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
D		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs > 7° to 27°	110	90	85	66	47	36	29	72	72	66	47	36	29	59	59	59	47	36	29	
	115	87	84	66	47	36	29	69	69	66	47	36	29	57	57	57	47	36	29	
	120	84	83	66	47	36	29	66	66	66	47	36	29	54	54	54	47	36	29	
	130	79	79	66	47	36	29	61	61	61	47	36	29	50	50	50	47	36	29	
	140	74	74	66	47	36	29	56	56	56	47	36	29	46	46	46	46	36	29	
	150	70	70	66	47	36	29	53	53	53	47	36	29	43	43	43	43	36	29	
	160	66	66	65	47	36	29	49	49	49	47	36	29	40	40	40	40	36	29	
	170	62	62	62	47	36	29	46	46	46	46	36	29	38	38	38	38	36	29	
	180	58	58	58	47	36	29	44	44	44	44	36	29	36	36	36	36	36	29	
	200	52	52	52	47	36	29	39	39	39	39	36	29	32	32	32	32	32	29	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 4A		Roof Height:	0 - 30 feet											Panel Orientation:	Portrait						
		Roof Angle:	27 < θ ≤ 45 degrees											Rafter Species:	Douglas Fir						
															Specific Gravity:	0.5					
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3							
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)							
B		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50		
Roofs >27° to 45°	110	91	86	73	64	56	51	91	86	73	64	56	51	91	86	73	64	56	51		
	115	89	85	73	64	56	51	89	85	73	64	56	51	89	85	73	64	56	51		
	120	87	84	72	64	56	51	84	84	72	64	56	51	87	84	72	64	56	51		
	130	84	82	70	61	56	51	84	82	70	62	56	51	84	82	70	62	56	51		
	140	81	79	68	61	55	51	81	79	68	61	55	51	81	79	68	61	55	51		
	150	79	76	67	60	54	50	78	76	67	60	54	50	78	76	67	60	54	50		
	160	77	73	65	58	53	50	74	73	65	58	53	50	74	73	65	58	53	50		
	170	73	71	63	57	52	49	70	70	63	57	52	49	70	70	63	57	52	49		
	180	70	69	61	56	51	48	66	66	61	56	51	48	66	66	61	56	51	48		
	200	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46		

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"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 4B		Roof Height: 0 - 30 feet											Panel Orientation: Portrait							
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir							
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
B		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs >27° to 45°	110	91	86	65	46	36	29	91	86	65	46	36	29	91	86	65	46	36	29	
	115	89	85	65	46	36	29	89	85	65	46	36	29	89	85	65	46	36	29	
	120	87	84	65	46	36	29	84	84	65	46	36	29	87	84	65	46	36	29	
	130	84	82	65	46	36	29	84	82	65	46	36	29	84	82	65	46	36	29	
	140	81	79	65	46	36	29	81	79	65	46	36	29	81	79	65	46	36	29	
	150	79	76	65	46	36	29	78	76	65	46	36	29	78	76	65	46	36	29	
	160	77	73	65	46	36	29	74	73	65	46	36	29	74	73	65	46	36	29	
	170	73	71	63	46	36	29	70	70	63	46	36	29	70	70	63	46	36	29	
	180	70	69	61	46	36	29	66	66	61	46	36	29	66	66	61	46	36	29	
	200	64	64	58	46	36	29	59	59	58	46	36	29	59	59	58	46	36	29	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 4C		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	91	86	65	46	36	29	91	86	65	46	36	29	91	86	65	46	36	29
	115	89	85	65	46	36	29	89	85	65	46	36	29	89	85	65	46	36	29
	120	87	84	65	46	36	29	84	84	65	46	36	29	87	84	65	46	36	29
	130	84	82	65	46	36	29	84	82	65	46	36	29	84	82	65	46	36	29
	140	81	79	65	46	36	29	81	79	65	46	36	29	81	79	65	46	36	29
	150	79	76	65	46	36	29	78	76	65	46	36	29	78	76	65	46	36	29
	160	77	73	65	46	36	29	74	73	65	46	36	29	74	73	65	46	36	29
	170	73	71	63	46	36	29	70	70	63	46	36	29	70	70	63	46	36	29
	180	70	69	61	46	36	29	66	66	61	46	36	29	66	66	61	46	36	29
	200	64	64	58	46	36	29	59	59	58	46	36	29	59	59	58	46	36	29

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 4D		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir															
		Specific Gravity: 0.5																	
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	91	73	43	30	23	19	91	73	43	30	23	19	91	73	43	30	23	19
	115	89	73	43	30	23	19	89	73	43	30	23	19	89	73	43	30	23	19
	120	87	73	43	30	23	19	84	73	43	30	23	19	87	73	43	30	23	19
	130	84	73	43	30	23	19	84	73	43	30	23	19	84	73	43	30	23	19
	140	81	73	43	30	23	19	81	73	43	30	23	19	81	73	43	30	23	19
	150	79	73	43	30	23	19	78	73	43	30	23	19	78	73	43	30	23	19
	160	77	73	43	30	23	19	74	73	43	30	23	19	74	73	43	30	23	19
	170	73	71	43	30	23	19	70	70	43	30	23	19	70	70	43	30	23	19
	180	70	69	43	30	23	19	66	66	43	30	23	19	66	66	43	30	23	19
	200	64	64	43	30	23	19	59	59	43	30	23	19	59	59	43	30	23	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 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"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 5A		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir															
				Specific Gravity: 0.5															
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	84	82	70	62	56	51	84	82	70	62	56	51	84	82	70	62	56	51
	115	83	80	69	61	56	51	83	80	69	61	56	51	83	80	69	61	56	51
	120	81	78	68	61	55	51	81	78	68	61	55	51	81	78	68	61	55	51
	130	78	75	66	59	54	50	77	75	66	59	54	50	77	75	66	59	54	50
	140	75	72	64	57	53	49	72	72	64	57	53	49	72	72	64	57	53	49
	150	71	69	62	56	52	48	67	67	62	56	52	48	67	67	62	56	52	48
	160	67	66	60	54	50	47	63	63	60	54	50	47	63	63	60	54	50	47
	170	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46
	180	60	60	56	51	48	45	56	56	56	51	48	45	56	56	56	51	48	45
	200	54	54	52	48	45	43	50	50	50	48	45	43	50	50	50	48	45	43

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"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 5B		Roof Height: 0 - 30 feet											Panel Orientation: Portrait						
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir						
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	84	82	65	46	36	29	84	82	65	46	36	29	84	82	65	46	36	29
	115	83	80	65	46	36	29	83	80	65	46	36	29	83	80	65	46	36	29
	120	81	78	65	46	36	29	81	78	65	46	36	29	81	78	65	46	36	29
	130	78	75	65	46	36	29	77	75	65	46	36	29	77	75	65	46	36	29
	140	75	72	64	46	36	29	72	72	64	46	36	29	72	72	64	46	36	29
	150	71	69	62	46	36	29	67	67	62	46	36	29	67	67	62	46	36	29
	160	67	66	60	46	36	29	63	63	60	46	36	29	63	63	60	46	36	29
	170	64	64	58	46	36	29	59	59	58	46	36	29	59	59	58	46	36	29
	180	60	60	56	46	36	29	56	56	56	46	36	29	56	56	56	46	36	29
	200	54	54	52	46	36	29	50	50	50	46	36	29	50	50	50	46	36	29

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 5C		Roof Height: 0 - 30 feet											Panel Orientation: Portrait							
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir							
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs >27° to 45°	110	84	82	65	46	36	29	84	82	65	46	36	29	84	82	65	46	36	29	
	115	83	80	65	46	36	29	83	80	65	46	36	29	83	80	65	46	36	29	
	120	81	78	65	46	36	29	81	78	65	46	36	29	81	78	65	46	36	29	
	130	78	75	65	46	36	29	77	75	65	46	36	29	77	75	65	46	36	29	
	140	75	72	64	46	36	29	72	72	64	46	36	29	72	72	64	46	36	29	
	150	71	69	62	46	36	29	67	67	62	46	36	29	67	67	62	46	36	29	
	160	67	66	60	46	36	29	63	63	60	46	36	29	63	63	60	46	36	29	
	170	64	64	58	46	36	29	59	59	58	46	36	29	59	59	58	46	36	29	
	180	60	60	56	46	36	29	56	56	56	46	36	29	56	56	56	46	36	29	
	200	54	54	52	46	36	29	50	50	50	46	36	29	50	50	50	46	36	29	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 5D		Roof Height: 0 - 30 feet											Panel Orientation: Portrait							
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir							
Exposure C		Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1					Roof Wind Pressure Zone 2					Roof Wind Pressure Zone 3							
			Roof Snow Load (psf)					Roof Snow Load (psf)					Roof Snow Load (psf)							
			0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	84	73	43	30	23	19	84	73	43	30	23	19	84	73	43	30	23	19	
	115	83	73	43	30	23	19	83	73	43	30	23	19	83	73	43	30	23	19	
	120	81	73	43	30	23	19	81	73	43	30	23	19	81	73	43	30	23	19	
	130	78	73	43	30	23	19	77	73	43	30	23	19	77	73	43	30	23	19	
	140	75	72	43	30	23	19	72	72	43	30	23	19	72	72	43	30	23	19	
	150	71	69	43	30	23	19	67	67	43	30	23	19	67	67	43	30	23	19	
	160	67	66	43	30	23	19	63	63	43	30	23	19	63	63	43	30	23	19	
	170	64	64	43	30	23	19	59	59	43	30	23	19	59	59	43	30	23	19	
	180	60	60	43	30	23	19	56	56	43	30	23	19	56	56	43	30	23	19	
	200	54	54	43	30	23	19	50	50	43	30	23	19	50	50	43	30	23	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 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"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 6A		Roof Height: 0 - 30 feet		Panel Orientation: Portrait															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	81	78	68	61	55	51	81	78	68	61	55	51	81	78	68	61	55	51
	115	79	76	67	60	55	50	79	76	67	60	55	50	79	76	67	60	55	50
	120	78	74	66	59	54	50	76	74	66	59	54	50	76	74	66	59	54	50
	130	74	72	63	57	53	49	71	71	63	57	53	49	71	71	63	57	53	49
	140	70	69	61	55	51	48	66	66	61	55	51	48	66	66	61	55	51	48
	150	66	66	59	54	50	47	61	61	59	54	50	47	61	61	59	54	50	47
	160	62	62	57	52	49	46	57	57	57	52	49	46	57	57	57	52	49	46
	170	59	59	55	51	47	44	54	54	54	51	47	44	54	54	54	51	46	44
	180	55	55	53	49	46	43	51	51	51	49	46	43	51	51	51	49	46	43
	200	50	50	49	46	43	41	46	46	46	46	43	41	46	46	46	46	43	41

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"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 6B		Roof Height: 0 - 30 feet												Panel Orientation: Portrait					
		Roof Angle: $27 < \theta \leq 45$ degrees												Rafter Species: Douglas Fir					
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	81	78	65	46	36	29	81	78	65	46	36	29	81	78	65	46	36	29
	115	79	76	65	46	36	29	79	76	65	46	36	29	79	76	65	46	36	29
	120	78	74	65	46	36	29	76	74	65	46	36	29	76	74	65	46	36	29
	130	74	72	63	46	36	29	71	71	63	46	36	29	71	71	63	46	36	29
	140	70	69	61	46	36	29	66	66	61	46	36	29	66	66	61	46	36	29
	150	66	66	59	46	36	29	61	61	59	46	36	29	61	61	59	46	36	29
	160	62	62	57	46	36	29	57	57	57	46	36	29	57	57	57	46	36	29
	170	59	59	55	46	36	29	54	54	54	46	36	29	54	54	54	46	36	29
	180	55	55	53	46	36	29	51	51	51	46	36	29	51	51	51	46	36	29
	200	50	50	49	46	36	29	46	46	46	46	36	29	46	46	46	46	36	29

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 6C		Roof Height: 0 - 30 feet											Panel Orientation: Portrait							
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir							
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs >27° to 45°	110	81	78	65	46	36	29	81	78	65	46	36	29	81	78	65	46	36	29	
	115	79	76	65	46	36	29	79	76	65	46	36	29	79	76	65	46	36	29	
	120	78	74	65	46	36	29	76	74	65	46	36	29	76	74	65	46	36	29	
	130	74	72	63	46	36	29	71	71	63	46	36	29	71	71	63	46	36	29	
	140	70	69	61	46	36	29	66	66	61	46	36	29	66	66	61	46	36	29	
	150	66	66	59	46	36	29	61	61	59	46	36	29	61	61	59	46	36	29	
	160	62	62	57	46	36	29	57	57	57	46	36	29	57	57	57	46	36	29	
	170	59	59	55	46	36	29	54	54	54	46	36	29	54	54	54	46	36	29	
	180	55	55	53	46	36	29	51	51	51	46	36	29	51	51	51	46	36	29	
	200	50	50	49	46	36	29	46	46	46	46	36	29	46	46	46	46	36	29	

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"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 6D		Roof Height: 0 - 30 feet											Panel Orientation: Portrait						
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir						
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	81	73	43	30	23	19	81	73	43	30	23	19	81	73	43	30	23	19
	115	79	73	43	30	23	19	79	73	43	30	23	19	79	73	43	30	23	19
	120	78	73	43	30	23	19	76	73	43	30	23	19	76	73	43	30	23	19
	130	74	72	43	30	23	19	71	71	43	30	23	19	71	71	43	30	23	19
	140	70	69	43	30	23	19	66	66	43	30	23	19	66	66	43	30	23	19
	150	66	66	43	30	23	19	61	61	43	30	23	19	61	61	43	30	23	19
	160	62	62	43	30	23	19	57	57	43	30	23	19	57	57	43	30	23	19
	170	59	59	43	30	23	19	54	54	43	30	23	19	54	54	43	30	23	19
	180	55	55	43	30	23	19	51	51	43	30	23	19	51	51	43	30	23	19
	200	50	50	43	30	23	19	46	46	43	30	23	19	46	46	43	30	23	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 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"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 7A		Roof Height:	0 - 30 feet											Panel Orientation: Landscape					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species: Douglas Fir					
Exposure B		Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1					Roof Wind Pressure Zone 2					Roof Wind Pressure Zone 3						
			Roof Snow Load (psf)					Roof Snow Load (psf)					Roof Snow Load (psf)						
			0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40
Roofs > 7° to 27°	110	94	87	76	65	57	51	88	87	76	65	57	51	76	76	76	65	57	51
	115	94	87	76	65	57	51	85	85	76	65	57	51	73	73	73	65	57	51
	120	94	87	76	65	57	51	83	83	76	65	57	51	70	70	70	65	57	51
	130	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51
	140	90	85	74	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	150	86	83	73	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	160	82	82	72	63	57	51	64	64	64	63	57	51	52	52	52	52	52	51
	170	78	78	70	62	57	51	60	60	60	60	57	51	49	49	49	49	49	49
	180	74	74	69	61	56	51	57	57	57	57	56	51	46	46	46	46	46	46
	200	68	68	65	59	54	50	51	51	51	51	51	50	41	41	41	41	41	41

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 7B		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	94	87	76	65	57	51	88	87	76	65	57	51	76	76	76	65	57	51
	115	94	87	76	65	57	51	85	85	76	65	57	51	73	73	73	65	57	51
	120	94	87	76	65	57	51	83	83	76	65	57	51	70	70	70	65	57	51
	130	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51
	140	90	85	74	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	150	86	83	73	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	160	82	82	72	63	57	51	64	64	64	63	57	51	52	52	52	52	52	51
	170	78	78	70	62	57	51	60	60	60	60	57	51	49	49	49	49	49	49
	180	74	74	69	61	56	51	57	57	57	57	56	51	46	46	46	46	46	46
	200	68	68	65	59	54	50	51	51	51	51	51	50	41	41	41	41	41	41

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 7C		Roof Height:	0 - 30 feet											Panel Orientation: Landscape					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species: Douglas Fir					
Exposure B		Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1					Roof Wind Pressure Zone 2					Roof Wind Pressure Zone 3						
			Roof Snow Load (psf)					Roof Snow Load (psf)					Roof Snow Load (psf)						
			0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40
Roofs > 7° to 27°	110	94	87	76	65	57	51	88	87	76	65	57	51	76	76	76	65	57	51
	115	94	87	76	65	57	51	85	85	76	65	57	51	73	73	73	65	57	51
	120	94	87	76	65	57	51	83	83	76	65	57	51	70	70	70	65	57	51
	130	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51
	140	90	85	74	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	150	86	83	73	65	57	51	68	68	68	65	57	51	56	56	56	56	56	51
	160	82	82	72	63	57	51	64	64	64	63	57	51	52	52	52	52	52	51
	170	78	78	70	62	57	51	60	60	60	60	57	51	49	49	49	49	49	49
	180	74	74	69	61	56	51	57	57	57	57	56	51	46	46	46	46	46	46
	200	68	68	65	59	54	50	51	51	51	51	51	50	41	41	41	41	41	41

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 7D		Roof Height:	0 - 30 feet											Panel Orientation:	Landscape						
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir						
															Specific Gravity:	0.5					
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3							
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)							
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50		
Roofs > 7° to 27°	110	94	87	76	65	57	47	88	87	76	65	57	47	76	76	76	65	57	47		
	115	94	87	76	65	57	47	85	85	76	65	57	47	73	73	73	65	57	47		
	120	94	87	76	65	57	47	83	83	76	65	57	47	70	70	70	65	57	47		
	130	93	86	75	65	57	47	78	78	75	65	57	47	65	65	65	65	57	47		
	140	90	85	74	65	57	47	68	68	68	65	57	47	56	56	56	56	56	47		
	150	86	83	73	65	57	47	68	68	68	65	57	47	56	56	56	56	56	47		
	160	82	82	72	63	57	47	64	64	64	63	57	47	52	52	52	52	52	47		
	170	78	78	70	62	57	47	60	60	60	60	57	47	49	49	49	49	49	47		
	180	74	74	69	61	56	47	57	57	57	57	56	47	46	46	46	46	46	46		
	200	68	68	65	59	54	47	51	51	51	51	51	47	41	41	41	41	41	41		

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 8A		Roof Height:	0 - 30 feet											Panel Orientation: Landscape						
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species: Douglas Fir						
Exposure C		Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
			Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
			0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51	
	115	91	85	75	65	57	51	75	75	75	65	57	51	62	62	62	62	57	51	
	120	89	85	74	65	57	51	72	72	72	65	57	51	59	59	59	59	57	51	
	130	84	83	73	64	57	51	67	67	67	64	57	51	54	54	54	54	54	51	
	140	80	80	71	63	57	51	62	62	62	62	57	51	50	50	50	50	50	50	
	150	76	76	69	61	56	51	57	57	57	57	56	51	47	47	47	47	47	47	
	160	72	72	67	60	55	51	54	54	54	54	54	51	44	44	44	44	44	44	
	170	67	67	65	59	54	50	50	50	50	50	50	50	41	41	41	41	41	41	
	180	63	63	63	58	53	49	48	48	48	48	48	48	39	39	39	39	39	39	
	200	57	57	57	55	51	48	43	43	43	43	43	43	35	35	35	35	35	35	

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 8B		Roof Height:	0 - 30 feet											Panel Orientation:	Landscape					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir					
														Specific Gravity:	0.5					
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
C		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs > 7° to 27°	110	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51	
	115	91	85	75	65	57	51	75	75	75	65	57	51	62	62	62	62	57	51	
	120	89	85	74	65	57	51	72	72	72	65	57	51	59	59	59	59	57	51	
	130	84	83	73	64	57	51	67	67	67	64	57	51	54	54	54	54	54	51	
	140	80	80	71	63	57	51	62	62	62	62	57	51	50	50	50	50	50	50	
	150	76	76	69	61	56	51	57	57	57	57	56	51	47	47	47	47	47	47	
	160	72	72	67	60	55	51	54	54	54	54	54	51	44	44	44	44	44	44	
	170	67	67	65	59	54	50	50	50	50	50	50	50	41	41	41	41	41	41	
	180	63	63	63	58	53	49	48	48	48	48	48	48	39	39	39	39	39	39	
	200	57	57	57	55	51	48	43	43	43	43	43	43	35	35	35	35	35	35	

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 8C		Roof Height:	0 - 30 feet											Panel Orientation: Landscape					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species: Douglas Fir Specific Gravity: 0.5					
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	93	86	75	65	57	51	78	78	75	65	57	51	65	65	65	65	57	51
	115	91	85	75	65	57	51	75	75	75	65	57	51	62	62	62	62	57	51
	120	89	85	74	65	57	51	72	72	72	65	57	51	59	59	59	59	57	51
	130	84	83	73	64	57	51	67	67	67	64	57	51	54	54	54	54	54	51
	140	80	80	71	63	57	51	62	62	62	62	57	51	50	50	50	50	50	50
	150	76	76	69	61	56	51	57	57	57	57	56	51	47	47	47	47	47	47
	160	72	72	67	60	55	51	54	54	54	54	54	51	44	44	44	44	44	44
	170	67	67	65	59	54	50	50	50	50	50	50	50	41	41	41	41	41	41
	180	63	63	63	58	53	49	48	48	48	48	48	48	39	39	39	39	39	39
	200	57	57	57	55	51	48	43	43	43	43	43	43	35	35	35	35	35	35

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 8D		Roof Height:	0 - 30 feet											Panel Orientation:	Landscape					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species:	Douglas Fir					
														Specific Gravity:	0.5					
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
C		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs > 7° to 27°	110	93	86	75	65	57	47	78	78	75	65	57	47	65	65	65	65	57	47	
	115	91	85	75	65	57	47	75	75	75	65	57	47	62	62	62	62	57	47	
	120	89	85	74	65	57	47	72	72	72	65	57	47	59	59	59	59	57	47	
	130	84	83	73	64	57	47	67	67	67	64	57	47	54	54	54	54	54	47	
	140	80	80	71	63	57	47	62	62	62	62	57	47	50	50	50	50	50	47	
	150	76	76	69	61	56	47	57	57	57	57	56	47	47	47	47	47	47	47	
	160	72	72	67	60	55	47	54	54	54	54	54	47	44	44	44	44	44	44	
	170	67	67	65	59	54	47	50	50	50	50	50	47	41	41	41	41	41	41	
	180	63	63	63	58	53	47	48	48	48	48	48	47	39	39	39	39	39	39	
	200	57	57	57	55	51	47	43	43	43	43	43	43	35	35	35	35	35	35	

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 9A		Roof Height:	0 - 30 feet											Panel Orientation: Landscape						
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species: Douglas Fir						
D		Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
			Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
			0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	90	85	74	65	57	51	72	72	74	65	57	51	59	59	59	59	57	51	
	115	87	84	73	65	57	51	69	69	69	65	57	51	57	57	57	57	57	51	
	120	84	83	73	64	57	51	66	66	66	64	57	51	54	54	54	54	54	51	
	130	79	79	71	63	57	51	61	61	61	61	57	51	50	50	50	50	50	50	
	140	74	74	69	61	56	51	56	56	56	56	56	51	46	46	46	46	46	46	
	150	70	70	67	60	55	51	53	53	53	53	53	51	43	43	43	43	43	43	
	160	66	66	65	58	54	50	49	49	49	49	49	49	40	40	40	40	40	40	
	170	62	62	62	57	52	49	46	46	46	46	46	46	38	38	38	38	38	38	
	180	58	58	58	55	51	48	44	44	44	44	44	44	36	36	36	36	36	36	
	200	52	52	52	52	49	46	39	39	39	39	39	39	32	32	32	32	32	32	

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 9B		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	90	85	74	65	57	51	72	72	74	65	57	51	59	59	59	59	57	51
	115	87	84	73	65	57	51	69	69	69	65	57	51	57	57	57	57	57	51
	120	84	83	73	64	57	51	66	66	66	64	57	51	54	54	54	54	54	51
	130	79	79	71	63	57	51	61	61	61	61	57	51	50	50	50	50	50	50
	140	74	74	69	61	56	51	56	56	56	56	56	51	46	46	46	46	46	46
	150	70	70	67	60	55	51	53	53	53	53	53	51	43	43	43	43	43	43
	160	66	66	65	58	54	50	49	49	49	49	49	49	40	40	40	40	40	40
	170	62	62	62	57	52	49	46	46	46	46	46	46	38	38	38	38	38	38
	180	58	58	58	55	51	48	44	44	44	44	44	44	36	36	36	36	36	36
	200	52	52	52	52	49	46	39	39	39	39	39	39	32	32	32	32	32	32

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 9C		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $7 < \theta \leq 27$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs > 7° to 27°	110	90	85	74	65	57	51	72	72	74	65	57	51	59	59	59	59	57	51
	115	87	84	73	65	57	51	69	69	69	65	57	51	57	57	57	57	57	51
	120	84	83	73	64	57	51	66	66	66	64	57	51	54	54	54	54	54	51
	130	79	79	71	63	57	51	61	61	61	61	57	51	50	50	50	50	50	50
	140	74	74	69	61	56	51	56	56	56	56	56	51	46	46	46	46	46	46
	150	70	70	67	60	55	51	53	53	53	53	53	51	43	43	43	43	43	43
	160	66	66	65	58	54	50	49	49	49	49	49	49	40	40	40	40	40	40
	170	62	62	62	57	52	49	46	46	46	46	46	46	38	38	38	38	38	38
	180	58	58	58	55	51	48	44	44	44	44	44	44	36	36	36	36	36	36
	200	52	52	52	52	49	46	39	39	39	39	39	39	32	32	32	32	32	32

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 9D		Roof Height:	0 - 30 feet											Panel Orientation: Landscape					
		Roof Angle:	7 < θ ≤ 27 degrees											Rafter Species: Douglas Fir					
Exposure D		Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1					Roof Wind Pressure Zone 2					Roof Wind Pressure Zone 3						
			Roof Snow Load (psf)					Roof Snow Load (psf)					Roof Snow Load (psf)						
			0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40
Roofs > 7° to 27°	110	90	85	74	65	57	47	72	72	74	65	57	47	59	59	59	59	57	47
	115	87	84	73	65	57	47	69	69	69	65	57	47	57	57	57	57	57	47
	120	84	83	73	64	57	47	66	66	66	64	57	47	54	54	54	54	54	47
	130	79	79	71	63	57	47	61	61	61	61	57	47	50	50	50	50	50	47
	140	74	74	69	61	56	47	56	56	56	56	56	47	46	46	46	46	46	46
	150	70	70	67	60	55	47	53	53	53	53	53	47	43	43	43	43	43	43
	160	66	66	65	58	54	47	49	49	49	49	49	47	40	40	40	40	40	40
	170	62	62	62	57	52	47	46	46	46	46	46	46	38	38	38	38	38	38
	180	58	58	58	55	51	47	44	44	44	44	44	44	36	36	36	36	36	36
	200	52	52	52	52	49	46	39	39	39	39	39	39	32	32	32	32	32	32

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 10A		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir															
		Specific Gravity: 0.5																	
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	91	86	73	64	56	51	91	86	73	64	56	51	91	86	73	64	56	51
	115	89	85	73	64	56	51	89	85	73	64	56	51	89	85	73	64	56	51
	120	87	84	72	64	56	51	84	84	72	64	56	51	87	84	72	64	56	51
	130	84	82	70	61	56	51	84	82	70	62	56	51	84	82	70	62	56	51
	140	81	79	68	61	55	51	81	79	68	61	55	51	81	79	68	61	55	51
	150	79	76	67	60	54	50	78	76	67	60	54	50	78	76	67	60	54	50
	160	77	73	65	58	53	50	74	73	65	58	53	50	74	73	65	58	53	50
	170	73	71	63	57	52	49	70	70	63	57	52	49	70	70	63	57	52	49
	180	70	69	61	56	51	48	66	66	61	56	51	48	66	66	61	56	51	48
	200	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 10B		Roof Height: 0 - 30 feet											Panel Orientation: Landscape							
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir							
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3						
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)						
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50	
Roofs >27° to 45°	110	91	86	73	64	56	46	91	86	73	64	56	46	91	86	73	64	56	46	
	115	89	85	73	64	56	46	89	85	73	64	56	46	89	85	73	64	56	46	
	120	87	84	72	64	56	46	84	84	72	64	56	46	87	84	72	64	56	46	
	130	84	82	70	61	56	46	84	82	70	62	56	46	84	82	70	62	56	46	
	140	81	79	68	61	55	46	81	79	68	61	55	46	81	79	68	61	55	46	
	150	79	76	67	60	54	46	78	76	67	60	54	46	78	76	67	60	54	46	
	160	77	73	65	58	53	46	74	73	65	58	53	46	74	73	65	58	53	46	
	170	73	71	63	57	52	46	70	70	63	57	52	46	70	70	63	57	52	46	
	180	70	69	61	56	51	46	66	66	61	56	51	46	66	66	61	56	51	46	
	200	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46	

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 10C		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	91	86	73	64	56	46	91	86	73	64	56	46	91	86	73	64	56	46
	115	89	85	73	64	56	46	89	85	73	64	56	46	89	85	73	64	56	46
	120	87	84	72	64	56	46	84	84	72	64	56	46	87	84	72	64	56	46
	130	84	82	70	61	56	46	84	82	70	62	56	46	84	82	70	62	56	46
	140	81	79	68	61	55	46	81	79	68	61	55	46	81	79	68	61	55	46
	150	79	76	67	60	54	46	78	76	67	60	54	46	78	76	67	60	54	46
	160	77	73	65	58	53	46	74	73	65	58	53	46	74	73	65	58	53	46
	170	73	71	63	57	52	46	70	70	63	57	52	46	70	70	63	57	52	46
	180	70	69	61	56	51	46	66	66	61	56	51	46	66	66	61	56	51	46
	200	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 10D		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure B	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	91	86	68	48	37	30	91	86	68	48	37	30	91	86	68	48	37	30
	115	89	85	68	48	37	30	89	85	68	48	37	30	89	85	68	48	37	30
	120	87	84	68	48	37	30	84	84	68	48	37	30	87	84	68	48	37	30
	130	84	82	68	48	37	30	84	82	68	48	37	30	84	82	68	48	37	30
	140	81	79	68	48	37	30	81	79	68	48	37	30	81	79	68	48	37	30
	150	79	76	67	48	37	30	78	76	67	48	37	30	78	76	67	48	37	30
	160	77	73	65	48	37	30	74	73	65	48	37	30	74	73	65	48	37	30
	170	73	71	63	48	37	30	70	70	63	48	37	30	70	70	63	48	37	30
	180	70	69	61	48	37	30	66	66	61	48	37	30	66	66	61	48	37	30
	200	64	64	58	48	37	30	59	59	58	48	37	30	59	59	58	48	37	30

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 11A		Roof Height:	0 - 30 feet											Panel Orientation:	Landscape						
		Roof Angle:	27 < θ ≤ 45 degrees											Rafter Species:	Douglas Fir						
															Specific Gravity:	0.5					
Exposure	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3							
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)							
C		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50		
Roofs >27° to 45°	110	84	82	70	62	56	51	84	82	70	62	56	51	84	82	70	62	56	51		
	115	83	80	69	61	56	51	83	80	69	61	56	51	83	80	69	61	56	51		
	120	81	78	68	61	55	51	81	78	68	61	55	51	81	78	68	61	55	51		
	130	78	75	66	59	54	50	77	75	66	59	54	50	77	75	66	59	54	50		
	140	75	72	64	57	53	49	72	72	64	57	53	49	72	72	64	57	53	49		
	150	71	69	62	56	52	48	67	67	62	56	52	48	67	67	62	56	52	48		
	160	67	66	60	54	50	47	63	63	60	54	50	47	63	63	60	54	50	47		
	170	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46		
	180	60	60	56	51	48	45	56	56	56	51	48	45	56	56	56	51	48	45		
	200	54	54	52	48	45	43	50	50	50	48	45	43	50	50	50	48	45	43		

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 11B		Roof Height: 0 - 30 feet											Panel Orientation: Landscape						
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir						
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	84	82	70	62	56	46	84	82	70	62	56	46	84	82	70	62	56	46
	115	83	80	69	61	56	46	83	80	69	61	56	46	83	80	69	61	56	46
	120	81	78	68	61	55	46	81	78	68	61	55	46	81	78	68	61	55	46
	130	78	75	66	59	54	46	77	75	66	59	54	46	77	75	66	59	54	46
	140	75	72	64	57	53	46	72	72	64	57	53	46	72	72	64	57	53	46
	150	71	69	62	56	52	46	67	67	62	56	52	46	67	67	62	56	52	46
	160	67	66	60	54	50	46	63	63	60	54	50	46	63	63	60	54	50	46
	170	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46
	180	60	60	56	51	48	45	56	56	56	51	48	45	56	56	56	51	48	45
	200	54	54	52	48	45	43	50	50	50	48	45	43	50	50	50	48	45	43

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 11C		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir		Specific Gravity: 0.5													
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	84	82	70	62	56	46	84	82	70	62	56	46	84	82	70	62	56	46
	115	83	80	69	61	56	46	83	80	69	61	56	46	83	80	69	61	56	46
	120	81	78	68	61	55	46	81	78	68	61	55	46	81	78	68	61	55	46
	130	78	75	66	59	54	46	77	75	66	59	54	46	77	75	66	59	54	46
	140	75	72	64	57	53	46	72	72	64	57	53	46	72	72	64	57	53	46
	150	71	69	62	56	52	46	67	67	62	56	52	46	67	67	62	56	52	46
	160	67	66	60	54	50	46	63	63	60	54	50	46	63	63	60	54	50	46
	170	64	64	58	53	49	46	59	59	58	53	49	46	59	59	58	53	49	46
	180	60	60	56	51	48	45	56	56	56	51	48	45	56	56	56	51	48	45
	200	54	54	52	48	45	43	50	50	50	48	45	43	50	50	50	48	45	43

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 11D		Roof Height: 0 - 30 feet											Panel Orientation: Landscape						
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir						
Exposure C	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	84	82	68	48	37	30	84	82	68	48	37	30	84	82	68	48	37	30
	115	83	80	68	48	37	30	83	80	68	48	37	30	83	80	68	48	37	30
	120	81	78	68	48	37	30	81	78	68	48	37	30	81	78	68	48	37	30
	130	78	75	66	48	37	30	77	75	66	48	37	30	77	75	66	48	37	30
	140	75	72	64	48	37	30	72	72	64	48	37	30	72	72	64	48	37	30
	150	71	69	62	48	37	30	67	67	62	48	37	30	67	67	62	48	37	30
	160	67	66	60	48	37	30	63	63	60	48	37	30	63	63	60	48	37	30
	170	64	64	58	48	37	30	59	59	58	48	37	30	59	59	58	48	37	30
	180	60	60	56	48	37	30	56	56	56	48	37	30	56	56	56	48	37	30
	200	54	54	52	48	37	30	50	50	50	48	37	30	50	50	50	48	37	30

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMNC, QMNS, & QMSFT Products

Table 12A		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	81	78	68	61	55	51	81	78	68	61	55	51	81	78	68	61	55	51
	115	79	76	67	60	55	50	79	76	67	60	55	50	79	76	67	60	55	50
	120	78	74	66	59	54	50	76	74	66	59	54	50	76	74	66	59	54	50
	130	74	72	63	57	53	49	71	71	63	57	53	49	71	71	63	57	53	49
	140	70	69	61	55	51	48	66	66	61	55	51	48	66	66	61	55	51	48
	150	66	66	59	54	50	47	61	61	59	54	50	47	61	61	59	54	50	47
	160	62	62	57	52	49	46	57	57	57	52	49	46	57	57	57	52	49	46
	170	59	59	55	51	47	44	54	54	54	51	47	44	54	54	54	51	46	44
	180	55	55	53	49	46	43	51	51	51	49	46	43	51	51	51	49	46	43
	200	50	50	49	46	43	41	46	46	46	46	43	41	46	46	46	46	43	41

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMUTM & QMLSH-7 Products

Table 12B		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir															
		Specific Gravity: 0.5																	
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	81	78	68	61	55	46	81	78	68	61	55	46	81	78	68	61	55	46
	115	79	76	67	60	55	46	79	76	67	60	55	46	79	76	67	60	55	46
	120	78	74	66	59	54	46	76	74	66	59	54	46	76	74	66	59	54	46
	130	74	72	63	57	53	46	71	71	63	57	53	46	71	71	63	57	53	46
	140	70	69	61	55	51	46	66	66	61	55	51	46	66	66	61	55	51	46
	150	66	66	59	54	50	46	61	61	59	54	50	46	61	61	59	54	50	46
	160	62	62	57	52	49	46	57	57	57	52	49	46	57	57	57	52	49	46
	170	59	59	55	51	47	44	54	54	54	51	47	44	54	54	54	51	46	44
	180	55	55	53	49	46	43	51	51	51	49	46	43	51	51	51	49	46	43
	200	50	50	49	46	43	41	46	46	46	46	43	41	46	46	46	46	43	41

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-9 Products

Table 12C		Roof Height: 0 - 30 feet		Panel Orientation: Landscape															
		Roof Angle: $27 < \theta \leq 45$ degrees		Rafter Species: Douglas Fir Specific Gravity: 0.5															
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	81	78	68	61	55	46	81	78	68	61	55	46	81	78	68	61	55	46
	115	79	76	67	60	55	46	79	76	67	60	55	46	79	76	67	60	55	46
	120	78	74	66	59	54	46	76	74	66	59	54	46	76	74	66	59	54	46
	130	74	72	63	57	53	46	71	71	63	57	53	46	71	71	63	57	53	46
	140	70	69	61	55	51	46	66	66	61	55	51	46	66	66	61	55	51	46
	150	66	66	59	54	50	46	61	61	59	54	50	46	61	61	59	54	50	46
	160	62	62	57	52	49	46	57	57	57	52	49	46	57	57	57	52	49	46
	170	59	59	55	51	47	44	54	54	54	51	47	44	54	54	54	51	46	44
	180	55	55	53	49	46	43	51	51	51	49	46	43	51	51	51	49	46	43
	200	50	50	49	46	43	41	46	46	46	46	43	41	46	46	46	46	43	41

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 landscape orientation with a maximum width of 42"

Rail Spans (in.) for Everest X48 Rails for use with QMLSH-12 Products

Table 12D		Roof Height: 0 - 30 feet											Panel Orientation: Landscape						
		Roof Angle: $27 < \theta \leq 45$ degrees											Rafter Species: Douglas Fir						
Exposure D	Ultimate Wind Speed, V (mph)	Roof Wind Pressure Zone 1						Roof Wind Pressure Zone 2						Roof Wind Pressure Zone 3					
		Roof Snow Load (psf)						Roof Snow Load (psf)						Roof Snow Load (psf)					
		0	10	20	30	40	50	0	10	20	30	40	50	0	10	20	30	40	50
Roofs >27° to 45°	110	81	78	68	48	37	30	81	78	68	48	37	30	81	78	68	48	37	30
	115	79	76	67	48	37	30	79	76	67	48	37	30	79	76	67	48	37	30
	120	78	74	66	48	37	30	76	74	66	48	37	30	76	74	66	48	37	30
	130	74	72	63	48	37	30	71	71	63	48	37	30	71	71	63	48	37	30
	140	70	69	61	48	37	30	66	66	61	48	37	30	66	66	61	48	37	30
	150	66	66	59	48	37	30	61	61	59	48	37	30	61	61	59	48	37	30
	160	62	62	57	48	37	30	57	57	57	48	37	30	57	57	57	48	37	30
	170	59	59	55	48	37	30	54	54	54	48	37	30	54	54	54	48	37	30
	180	55	55	53	48	37	30	51	51	51	48	37	30	51	51	51	48	37	30
	200	50	50	49	46	37	30	46	46	46	46	37	30	46	46	46	46	37	30

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 landscape orientation with a maximum width of 42"