

## **Maximum Spacing of Rail Supports (feet)**

### Notes:

1. Design Loads are in accordance with the International Building Code, 2006 Edition.
2. The capacity of the screws are based upon the assumption that an embedment of no less than 2.5" is achieved. The screw should be positioned such that it is driven into the center of the top chord of the roof truss or rafter.
3. The capacity of the rail is based on properties for the aluminum alloy 6063-T6.

### **Exposure B @ 20 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	8.2	7.7	6.9	6.6	6.3	5.8	5.6	5.3	5.0	4.8	4.6
Cantilever	3.7	3.4	3.1	3.0	2.8	2.6	2.5	2.4	2.2	2.1	2.1

### **Exposure B @ 30 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	8.2	7.7	6.9	6.6	6.3	5.8	5.6	5.3	5.0	4.8	4.6
Cantilever	3.7	3.4	3.1	3.0	2.8	2.6	2.5	2.4	2.2	2.1	2.1

### **Exposure B @ 40 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	7.8	7.4	6.6	6.3	6.0	5.5	5.3	5.1	4.7	4.6	4.4
Cantilever	3.5	3.3	3.0	2.8	2.7	2.5	2.4	2.3	2.1	2.1	2.0

### **Exposure C @ 20 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	7.2	6.8	6.1	5.8	5.6	5.1	4.9	4.7	4.4	4.2	4.1
Cantilever	3.2	3.0	2.7	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.8

**Exposure C @ 30 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	6.9	6.5	5.9	5.6	5.3	4.9	4.7	4.5	4.2	4.0	3.9
Cantilever	3.1	2.9	2.6	2.5	2.4	2.2	2.1	2.0	1.9	1.8	1.7

**Exposure C @ 40 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	6.7	6.3	5.7	5.4	5.2	4.7	4.5	4.4	4.1	3.9	3.8
Cantilever	3.0	2.8	2.5	2.4	2.3	2.1	2.0	2.0	1.8	1.8	1.7

**Exposure D @ 20 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	6.6	6.2	5.6	5.3	5.1	4.6	4.5	4.3	4.0	3.8	3.7
Cantilever	2.9	2.8	2.5	2.4	2.3	2.1	2.0	1.9	1.8	1.7	1.7

**Exposure D @ 30 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	6.3	6.0	5.4	5.1	4.9	4.5	4.3	4.1	3.8	3.7	3.6
Cantilever	2.8	2.7	2.4	2.3	2.2	2.0	1.9	1.9	1.7	1.7	1.6

**Exposure D @ 40 ft**

Location of Span	Wind Speeds (mph)										
	85	90	100	105	110	120	125	130	140	145	150
Interior	6.2	5.8	5.3	5.0	4.8	4.4	4.2	4.0	3.8	3.6	3.5
Cantilever	2.8	2.6	2.4	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.6