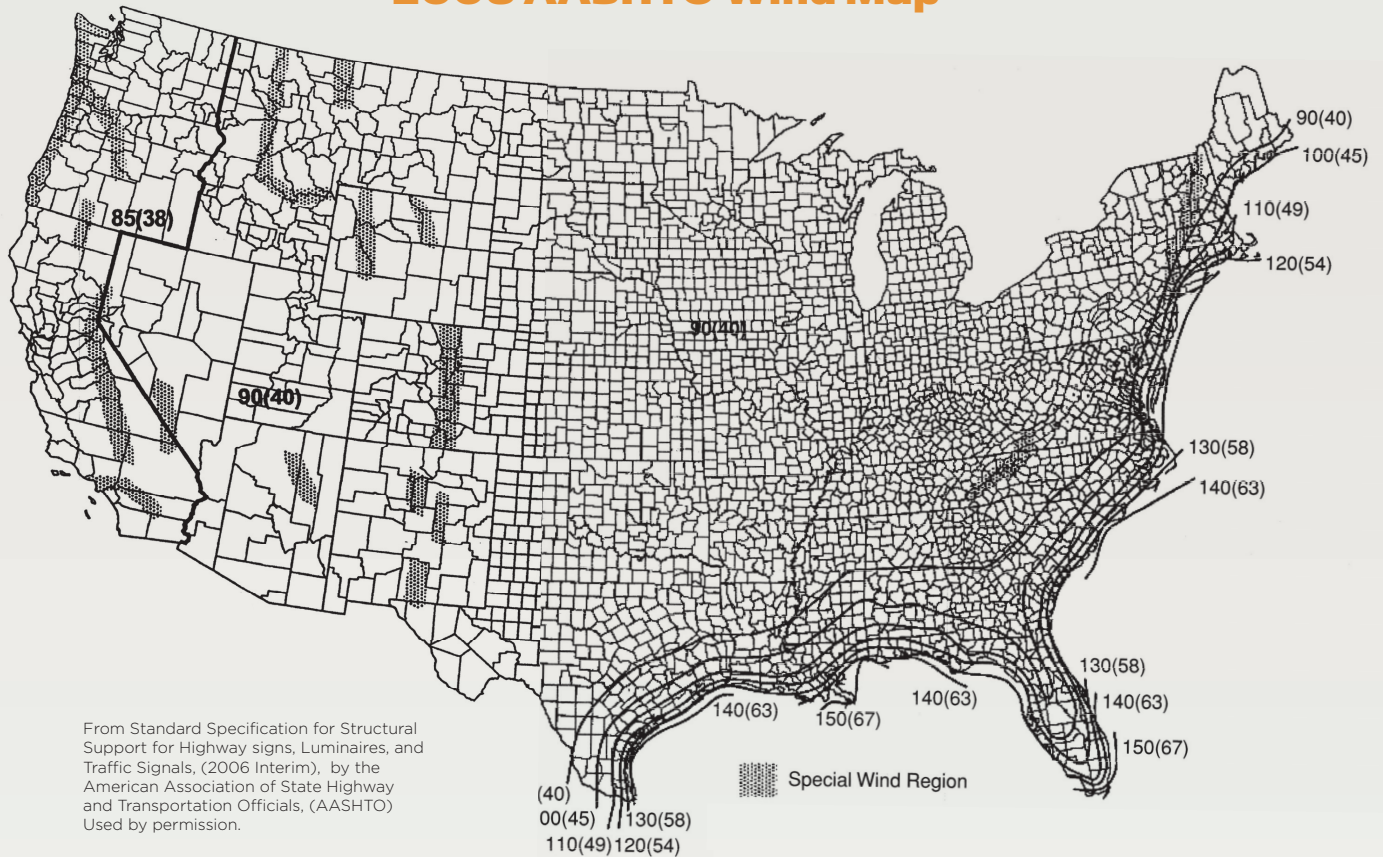


2006 AASHTO Wind Map



Notes

- Values are 3-second gust speeds in m/s (mph) at 10 m (32.8 ft) above ground for Exposure C category and are associated with an annual probability of 0.02 (50-year mean recurrence interval)
- The wind map is intended as a general guide. Always consult local authorities to determine maximum wind velocities, gusts, and special conditions for your installation.
- Hawaii has a 105 mph wind velocity.
- Puerto Rico has a 125 mph wind velocity.
- Caution must be taken when selecting wind velocity in special wind regions as indicated in the map above. These areas include:
 - Open land, oceans, or large bodies of water
 - Mountainous regions and gorges
 - Areas where extreme wind conditions such as hurricanes and tornadoes are common.
- The effective projected area (EPA) of the sum of all fixtures and arms must not exceed the maximum allowable pole EPA for the selected design wind speed.
- It is the responsibility of the specifier to correctly select a pole for a given wind load per the
- AASHTO standards.
- Pole foundations should be designed per the soil conditions and local codes. Structura does not offer foundation design recommendations.
- Consult the factory for luminaire arms greater than 24" in length and luminaires greater than 50 lbs.

maximum wind loading

Toka

Allowable Pole EPA

Overall Pole Height (ft)	Pole Angle	LED Strip	Weight (Nom.)	90mph	100mph	110mph	120mph	130mph	140mph	150mph
12'	Straight	No	338	84.4	68.0	55.9	46.6	39.4	33.7	29.1
12'	Straight	Yes	362	73.3	58.9	48.2	40.0	33.7	28.7	24.7
12'	Tilted	No	338	84.2	67.8	55.7	46.5	39.3	33.6	29.0
12'	Tilted	Yes	362	73.0	58.6	48.0	39.9	33.6	28.6	24.6
14'	Straight	No	376	61.1	49.1	40.1	33.3	28.1	23.9	20.5
14'	Straight	Yes	404	54.4	43.6	35.7	29.6	24.9	21.1	18.1
14'	Tilted	No	376	60.9	48.8	40.0	33.2	27.9	23.8	20.4
14'	Tilted	Yes	404	54.2	43.4	35.5	29.4	24.7	21.0	18.0
16'	Straight	No	414	45.9	36.6	29.8	24.6	20.6	17.4	14.8
16'	Straight	Yes	446	40.8	32.5	26.4	21.7	18.1	15.3	12.9
16'	Tilted	No	414	45.6	36.4	29.6	24.5	20.5	17.3	14.7
16'	Tilted	Yes	446	40.5	32.3	26.2	21.6	18.0	15.1	12.8
18'	Straight	No	452	35.3	28.0	22.6	18.5	15.3	12.8	10.8
18'	Straight	Yes	488	31.3	24.7	19.9	16.3	13.4	11.1	9.3
18'	Tilted	No	452	35.0	27.8	22.5	18.4	15.2	12.7	10.7
18'	Tilted	Yes	488	31.0	24.5	19.7	16.1	13.3	11.0	9.2
20'	Straight	No	490	27.7	21.8	17.4	14.1	11.5	9.5	7.8
20'	Straight	Yes	530	24.4	19.1	15.2	12.2	9.9	8.1	6.6
20'	Tilted	No	490	27.4	21.6	17.2	13.9	11.4	9.3	7.7
20'	Tilted	Yes	530	24.1	18.9	15.0	12.1	9.8	8.0	6.5
22'	Straight	No	528	21.9	17.1	13.5	10.7	8.6	6.9	5.5
22'	Straight	Yes	572	19.2	14.9	11.6	9.2	7.3	5.8	4.5
22'	Tilted	No	528	21.7	16.8	13.3	10.6	8.4	6.8	5.4
22'	Tilted	Yes	572	18.9	14.6	11.5	9.0	7.1	5.7	4.4
24'	Straight	No	566	17.5	13.4	10.4	8.1	6.3	4.8	3.7
24'	Straight	Yes	614	15.2	11.5	8.8	6.8	5.2	3.9	2.9
24'	Tilted	No	566	17.2	13.2	10.2	7.9	6.1	4.7	3.6
24'	Tilted	Yes	614	14.9	11.3	8.7	6.6	5.0	3.8	2.8
26'	Straight	No	604	13.9	10.5	7.9	5.9	4.4	3.2	2.2
26'	Straight	Yes	656	12.0	8.9	6.6	4.8	3.5	2.4	1.5
26'	Tilted	No	604	13.7	10.2	7.7	5.8	4.3	3.1	2.1
26'	Tilted	Yes	656	11.7	8.7	6.4	4.7	3.3	2.3	1.4
28'	Straight	No	642	11.1	8.1	5.8	4.2	2.8	1.8	1.0
28'	Straight	Yes	698	9.4	6.7	4.7	3.2	2.0	1.1	-
28'	Tilted	No	642	10.8	7.9	5.7	4.0	2.7	1.7	0.9
28'	Tilted	Yes	698	9.1	6.5	4.5	3.1	1.9	1.0	-
30'	Straight	No	680	8.7	6.1	4.1	2.7	1.5	-	-
30'	Straight	Yes	740	7.1	4.6	2.8	1.4	-	-	-
30'	Tilted	No	680	8.4	5.9	4.0	2.5	1.4	-	-
30'	Tilted	Yes	740	6.9	4.4	2.6	1.2	-	-	-