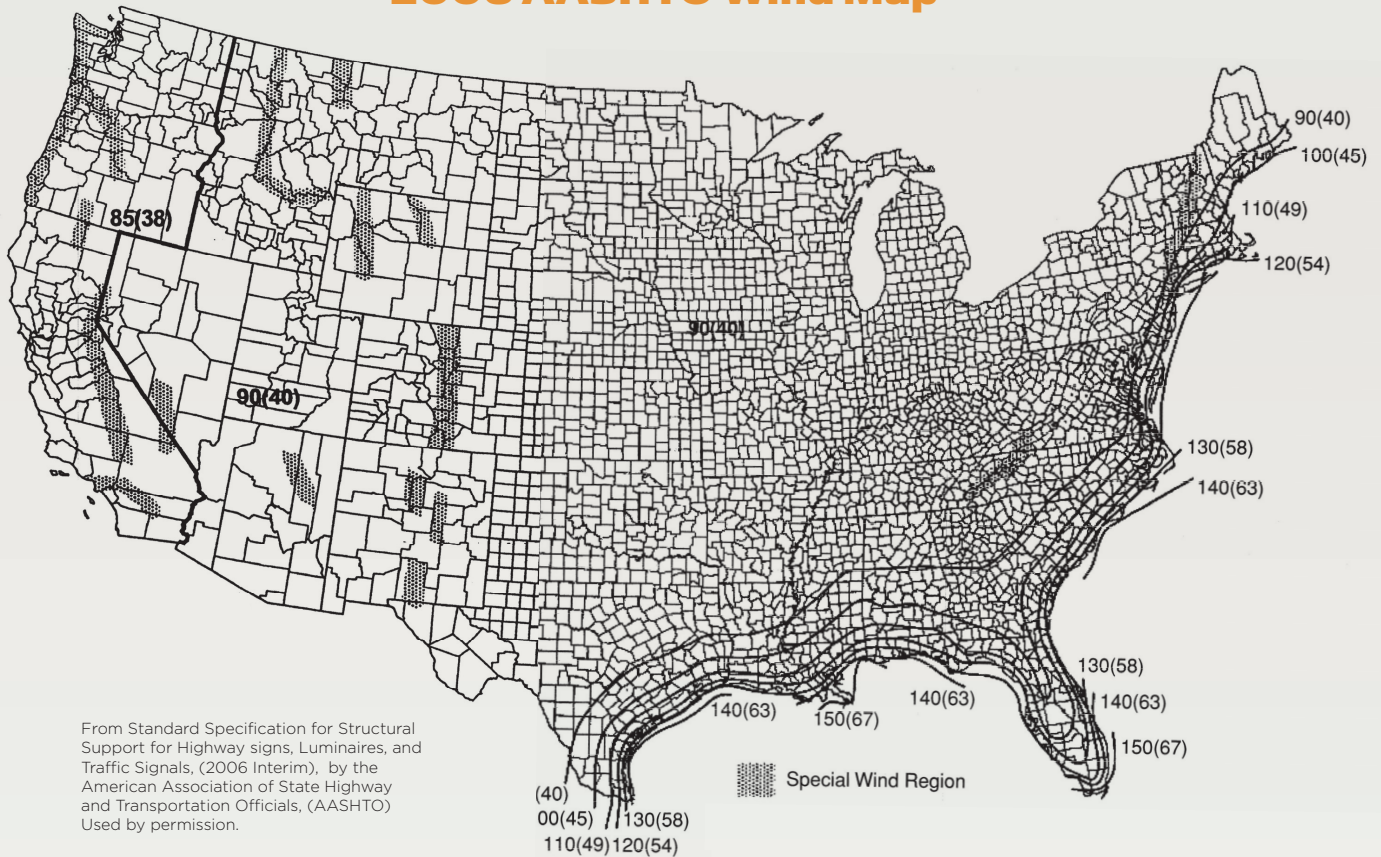


2006 AASHTO Wind Map



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.

Beam

6" Size

				Allowable Pole EPA						
Overall Pole Height (ft)	Pole Size	Anchor Bolt Qty.	Weight	90mph	100mph	110mph	120mph	130mph	140mph	150mph
12'	6"	4	333	25.8	20.6	16.8	13.8	11.6	9.8	8.3
12'	6"	6	333	38.7	30.9	25.2	20.8	17.4	14.7	12.5
14'	6"	4	379	18.1	14.4	11.6	9.4	7.8	6.5	5.4
14'	6"	6	379	27.2	21.6	17.4	14.2	11.7	9.7	8.1
16'	6"	4	425	13.1	10.2	8.1	6.5	5.2	4.2	3.4
16'	6"	6	425	19.7	15.4	12.2	9.7	7.9	6.4	5.1
18'	6"	4	471	9.6	7.3	5.7	4.4	3.4	2.6	2.0
18'	6"	6	471	14.4	11.0	8.5	6.6	5.1	4.0	3.0
20'	6"	4	517	7.0	5.2	3.9	2.8	2.0	1.4	0.9
20'	6"	6	517	10.6	7.8	5.8	4.3	3.1	2.1	1.4
22'	6"	4	563	5.1	3.6	2.5	1.6	1.0	-	-
22'	6"	6	563	7.6	5.5	3.7	2.4	1.5	-	-
24'	6"	4	609	3.5	2.3	1.3	-	-	-	-
24'	6"	6	609	5.3	3.4	2.0	1.0	-	-	-

Beam

8" Size

Overall Pole Height (ft)	Pole Size	Anchor Bolt Qty.	Weight	Allowable Pole EPA						
				90mph	100mph	110mph	120mph	130mph	140mph	150mph
12'	8"	4	540	66.5	55.0	44.9	37.3	31.4	26.7	22.9
12'	8"	6	540	102.8	82.5	67.4	56.0	47.1	40.1	34.4
14'	8"	4	618	57.9	46.3	37.7	31.2	26.1	22.0	18.8
14'	8"	6	618	86.8	69.4	56.5	46.8	39.1	33.1	28.2
16'	8"	4	696	47.8	38.2	31.1	25.7	21.5	18.1	15.5
16'	8"	6	696	71.7	57.3	46.6	38.5	32.2	27.2	23.2
18'	8"	4	774	36.7	29.2	23.6	19.3	16.0	13.4	11.3
18'	8"	6	774	55.1	43.8	35.4	29.0	24.1	20.1	16.9
20'	8"	4	852	28.8	22.7	18.2	14.7	12.0	9.9	8.2
20'	8"	6	852	43.2	34.0	27.2	22.1	18.1	14.9	12.3
22'	8"	4	930	22.8	17.8	14.0	11.2	9.0	7.2	5.8
22'	8"	6	930	34.2	26.7	21.1	16.8	13.5	10.9	8.8
24'	8"	4	1008	18.2	14.0	10.8	8.5	6.6	5.1	4.0
24'	8"	6	1008	27.3	21.0	16.3	12.7	9.9	7.7	4.8
26'	8"	4	1086	14.5	10.9	8.3	6.3	4.7	3.4	2.4
26'	8"	6	1086	21.8	16.4	12.4	9.4	7.0	5.2	3.7
28'	8"	4	1164	11.6	8.5	6.2	4.4	3.1	2.0	1.1
28'	8"	6	1164	17.3	12.7	9.3	6.7	4.6	3.0	1.7
30'	8"	4	1242	9.1	6.4	4.4	2.9	1.7	-	-
30'	8"	6	1242	13.7	9.6	6.6	4.4	2.6	1.2	-

Beam

10" Size

Overall Pole Height (ft)	Pole Size	Anchor Bolt Qty.	Weight	Allowable Pole EPA						
				90mph	100mph	110mph	120mph	130mph	140mph	150mph
12'	10"	4	786	122.3	98.4	80.7	67.3	56.8	48.6	41.9
12'	10"	6	786	183.4	147.6	121.1	101.0	85.3	72.8	62.8
14'	10"	4	894	103.8	83.3	68.2	56.6	47.7	40.6	34.8
14'	10"	6	894	155.7	125.0	102.3	85.0	71.5	60.9	52.3
16'	10"	4	1002	89.78	71.8	58.6	48.5	40.7	34.5	29.4
16'	10"	6	1002	134.6	107.8	87.9	72.8	61.0	51.7	44.2
18'	10"	4	1110	78.7	62.8	51.0	42.1	35.1	29.6	25.1
18'	10"	6	1110	118.1	94.2	76.6	63.1	52.7	44.4	37.7
20'	10"	4	1218	67.1	53.6	43.5	35.9	30.0	25.3	21.5
20'	10"	6	1218	100.7	80.4	65.3	53.9	45.0	37.9	32.2
22'	10"	4	1326	54.3	43.1	34.8	28.5	23.6	19.7	16.6
22'	10"	6	1326	81.47	64.6	52.2	42.8	35.4	29.6	24.9
24'	10"	4	1434	44.4	35.0	28.1	22.8	18.7	15.4	12.8
24'	10"	6	1434	66.6	52.6	42.1	34.2	28.0	23.1	19.2
26'	10"	4	1542	36.6	28.6	22.7	18.2	14.7	11.9	9.7
26'	10"	6	1542	55.0	43.0	34.1	27.4	22.1	17.9	14.6
28'	10"	4	1650	30.4	23.5	18.4	14.5	11.5	9.1	7.2
28'	10"	6	1650	45.6	35.5	27.6	21.8	17.3	13.7	10.8
30'	10"	4	1758	25.3	19.3	14.8	11.5	8.8	6.8	5.1
30'	10"	6	1758	37.9	28.9	22.3	17.2	13.3	10.1	7.6