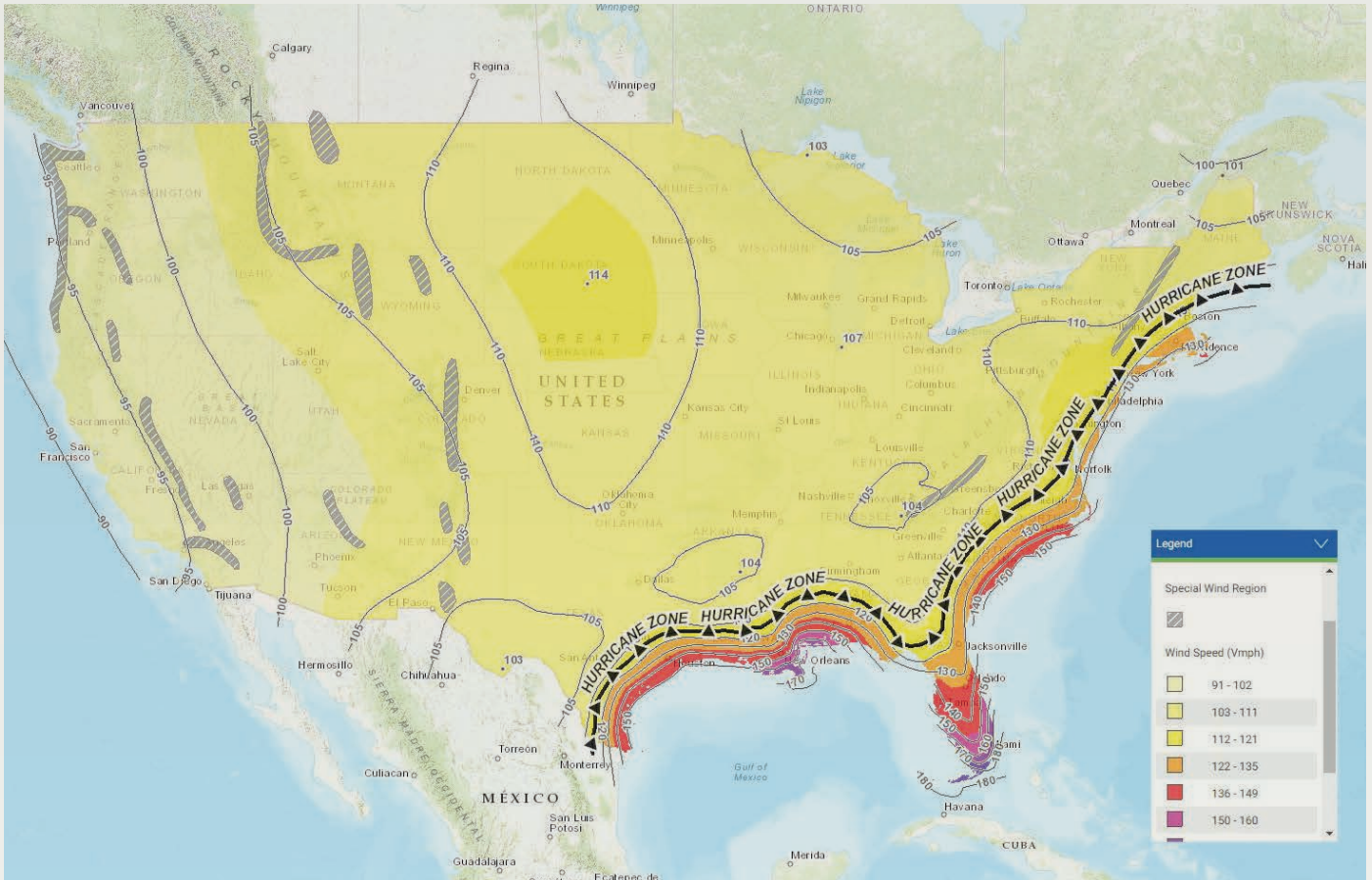


2016 AASHTO Wind Map



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.
- 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.

Pipe

4"

Allowable Pole EPA

Overall Pole Height (ft)	Pole Size	Wall Thickness	90mph	100mph	110mph	120mph	130mph	140mph	150mph	160mph	170mph
10'	4.5"	Standard	32.2	26.1	21.5	18.1	15.4	13.2	11.5	10.1	8.9
10'	4.5"	Thick	43.1	34.9	28.8	24.2	20.6	17.8	15.5	13.6	12.0
12'	4.5"	Standard	22.2	18.0	14.8	12.5	10.6	9.1	7.9	6.9	6.1
12'	4.5"	Thick	29.9	24.2	19.9	16.7	14.2	12.3	10.7	9.3	8.2
14'	4.5"	Standard	16.2	13.1	10.8	9.1	7.7	6.6	5.7	5.0	4.4
14'	4.5"	Thick	21.8	17.6	14.6	12.2	10.4	8.9	7.7	6.8	5.9
16'	4.5"	Standard	12.3	9.9	8.2	6.8	5.8	5.0	4.3	3.8	3.3
16'	4.5"	Thick	16.6	13.4	11.0	9.2	7.9	6.7	5.9	5.1	4.5
18'	4.5"	Standard	9.6	7.7	6.4	5.3	4.5	3.8	3.3	2.9	2.5
18'	4.5"	Thick	13.0	10.5	8.6	7.2	6.1	5.2	4.5	4.0	3.4
20'	4.5"	Standard	7.7	6.2	5.1	4.2	3.6	3.0	2.6	2.3	1.9
20'	4.5"	Thick	10.4	8.4	6.9	5.8	4.9	4.2	3.6	3.1	2.7
22'	4.5"	Standard	6.2	5.0	4.1	3.4	2.8	2.4	2.1	1.8	1.5
22'	4.5"	Thick	8.5	6.8	5.6	4.7	3.9	3.4	2.9	2.5	2.1
24'	4.5"	Standard	5.1	4.1	3.3	2.7	2.3	1.9	1.7	1.4	1.1
24'	4.5"	Thick	7.0	5.6	4.6	3.8	3.2	2.7	2.3	2.0	1.7
26'	4.5"	Standard	4.2	3.4	2.7	2.2	1.9	1.6	1.3	1.1	-
26'	4.5"	Thick	5.9	4.7	3.8	3.2	2.6	2.2	1.9	1.6	1.3
28'	4.5"	Standard	3.5	2.8	2.3	1.8	1.5	1.3	1.1	-	-
28'	4.5"	Thick	4.9	3.9	3.2	2.6	2.2	1.8	1.6	1.3	1.0
30'	4.5"	Standard	3.0	2.3	1.9	1.5	1.2	1.0	-	-	-
30'	4.5"	Thick	4.2	3.3	2.7	2.2	1.8	1.5	1.3	1.1	-

Pipe

5"

Allowable Pole EPA

Overall Pole Height (ft)	Pole Size	Wall Thickness	90mph	100mph	110mph	120mph	130mph	140mph	150mph	160mph	170mph
10'	5.6"	Standard	67.0	54.2	44.8	37.6	32.0	27.6	24.0	21.1	18.6
10'	5.6"	Thick	115.0	93.1	77.0	64.6	55.1	47.5	41.3	36.3	32.1
12'	5.6"	Standard	46.9	37.9	31.3	26.3	22.4	19.3	16.8	14.7	13.0
12'	5.6"	Thick	79.7	64.6	53.3	44.8	38.1	32.9	28.6	25.1	22.2
14'	5.6"	Standard	34.3	27.7	22.9	19.2	16.3	14.0	12.2	10.7	9.4
14'	5.6"	Thick	58.5	47.3	39.1	32.8	27.9	24.0	20.9	18.4	16.2
16'	5.6"	Standard	26.1	21.1	17.4	14.6	12.4	10.7	9.2	8.1	7.1
16'	5.6"	Thick	44.6	36.1	29.8	25.0	21.3	18.3	15.9	14.0	12.3
18'	5.6"	Standard	20.5	16.5	13.6	11.4	9.7	8.3	7.2	6.3	5.5
18'	5.6"	Thick	35.1	28.4	23.4	19.6	16.7	14.4	12.5	10.9	9.6
20'	5.6"	Standard	16.5	13.3	10.9	9.1	7.7	6.6	5.7	5.0	4.3
20'	5.6"	Thick	28.3	22.9	18.8	15.8	13.4	11.5	10.0	8.7	7.6
22'	5.6"	Standard	13.5	10.8	8.9	7.4	6.3	5.4	4.6	4.0	3.4
22'	5.6"	Thick	23.2	18.8	15.4	12.9	11.0	9.4	8.2	7.1	6.2
24'	5.6"	Standard	11.2	9.0	7.4	6.1	5.2	4.4	3.8	3.3	2.8
24'	5.6"	Thick	19.4	15.6	12.9	10.7	9.1	7.8	6.7	5.9	5.1
26'	5.6"	Standard	9.4	7.5	6.1	5.1	4.3	3.6	3.1	2.7	2.2
26'	5.6"	Thick	16.4	13.2	10.8	9.0	7.6	6.5	5.6	4.9	4.2
28'	5.6"	Standard	7.9	6.3	5.2	4.3	3.6	3.0	2.6	2.2	1.8
28'	5.6"	Thick	14.0	11.2	9.2	7.7	6.5	5.5	4.8	4.1	3.5
30'	5.6"	Standard	6.8	5.4	4.4	3.6	3.0	2.5	2.1	1.8	1.4
30'	5.6"	Thick	12.0	9.6	7.9	6.6	5.5	4.7	4.0	3.5	2.9

Pipe

6"

Allowable Pole EPA

Overall Pole Height (ft)	Pole Size	Wall Thickness	90mph	100mph	110mph	120mph	130mph	140mph	150mph	160mph	170mph
10'	6.6"	Standard	104.0	84.2	60.6	58.4	49.8	42.9	37.3	32.8	29.0
10'	6.6"	Thick	152.6	123.6	102.1	85.8	73.1	63.0	54.8	48.2	42.6
12'	6.6"	Standard	86.6	70.1	57.9	48.6	41.4	35.7	31.0	27.3	24.1
12'	6.6"	Thick	125.1	101.3	83.7	70.3	59.9	51.6	44.9	39.5	34.9
14'	6.6"	Standard	63.9	51.7	42.7	35.8	30.5	26.3	22.8	20.0	17.7
14'	6.6"	Thick	91.8	74.3	61.4	51.5	43.9	37.8	32.9	28.9	25.5
16'	6.6"	Standard	48.8	39.4	32.5	27.3	23.2	20.0	17.4	15.2	13.4
16'	6.6"	Thick	70.1	56.7	46.8	39.3	33.5	28.8	25.1	22.0	19.4
18'	6.6"	Standard	38.3	31.0	25.6	21.4	18.2	15.7	13.6	11.9	10.4
18'	6.6"	Thick	55.2	44.7	36.9	30.9	26.3	22.6	19.7	17.3	15.2
20'	6.6"	Standard	30.9	25.0	20.6	17.2	14.6	12.6	10.9	9.5	8.3
20'	6.6"	Thick	44.6	36.0	29.7	24.9	21.2	18.2	15.8	13.9	12.1
22'	6.6"	Standard	25.4	20.5	16.8	14.1	12.0	10.3	8.9	7.8	6.7
22'	6.6"	Thick	36.6	29.6	24.4	20.4	17.4	14.9	12.9	11.3	9.9
24'	6.6"	Standard	21.1	17.0	14.0	11.7	9.9	8.5	7.3	6.4	5.5
24'	6.6"	Thick	30.6	24.7	20.4	17.0	14.5	12.4	10.8	9.4	8.2
26'	6.6"	Standard	17.8	14.4	11.8	9.8	8.3	7.1	6.1	5.3	4.5
26'	6.6"	Thick	25.9	20.9	17.2	14.4	12.2	10.4	9.0	7.9	6.8
28'	6.6"	Standard	15.2	12.2	10.0	8.3	7.0	6.0	5.2	4.5	3.8
28'	6.6"	Thick	22.2	17.9	14.7	12.3	10.4	8.9	7.7	6.7	5.7
30'	6.6"	Standard	13.1	10.5	8.6	7.1	6.0	5.1	4.4	3.8	3.1
30'	6.6"	Thick	19.1	15.4	12.6	10.5	8.9	7.6	6.5	5.7	4.8