

How to Determine Acceptable Wind Loading

1. Find the maximum wind velocity in your local area indicated on the wind velocity map. Check local code. Some areas of the country may require design to higher wind loading than shown here. If unsure of exact location in relation to wind region, assume the higher value.
2. Select the style and height of the preferred pole. See Dynamic Lighting Pole EPA Table located in the back of our catalog (example below) for poles suitable for the wind velocity in your area.
3. Select the preferred luminaire from our catalog. The EPA of each luminaire is featured throughout our printed material and website.
4. Calculate values as shown below.

★ **The Maximum allowable EPA rating for the pole must be greater than the EPA rating of the luminaire(s) and bracket combined.**

Model Number	Pole Height	Maximum allowable EPA in ft ² at:					Diameter of Shaft at Base (inches)	Diameter of Shaft Top (inches)	Shaft Wall Thickness (inches)
		70 MPH	80 MPH	90 MPH	100 MPH	120 MPH			
D23-08	7'8"	22.75	17.27	13.52	10.83	7.33	4	4	0.125
D23-10	9'8"	18.19	13.69	10.61	8.4	5.53	4	4	0.125
D23-12	11'8"	14.87	11.06	8.45	6.58	4.14	4	4	0.125

Example:

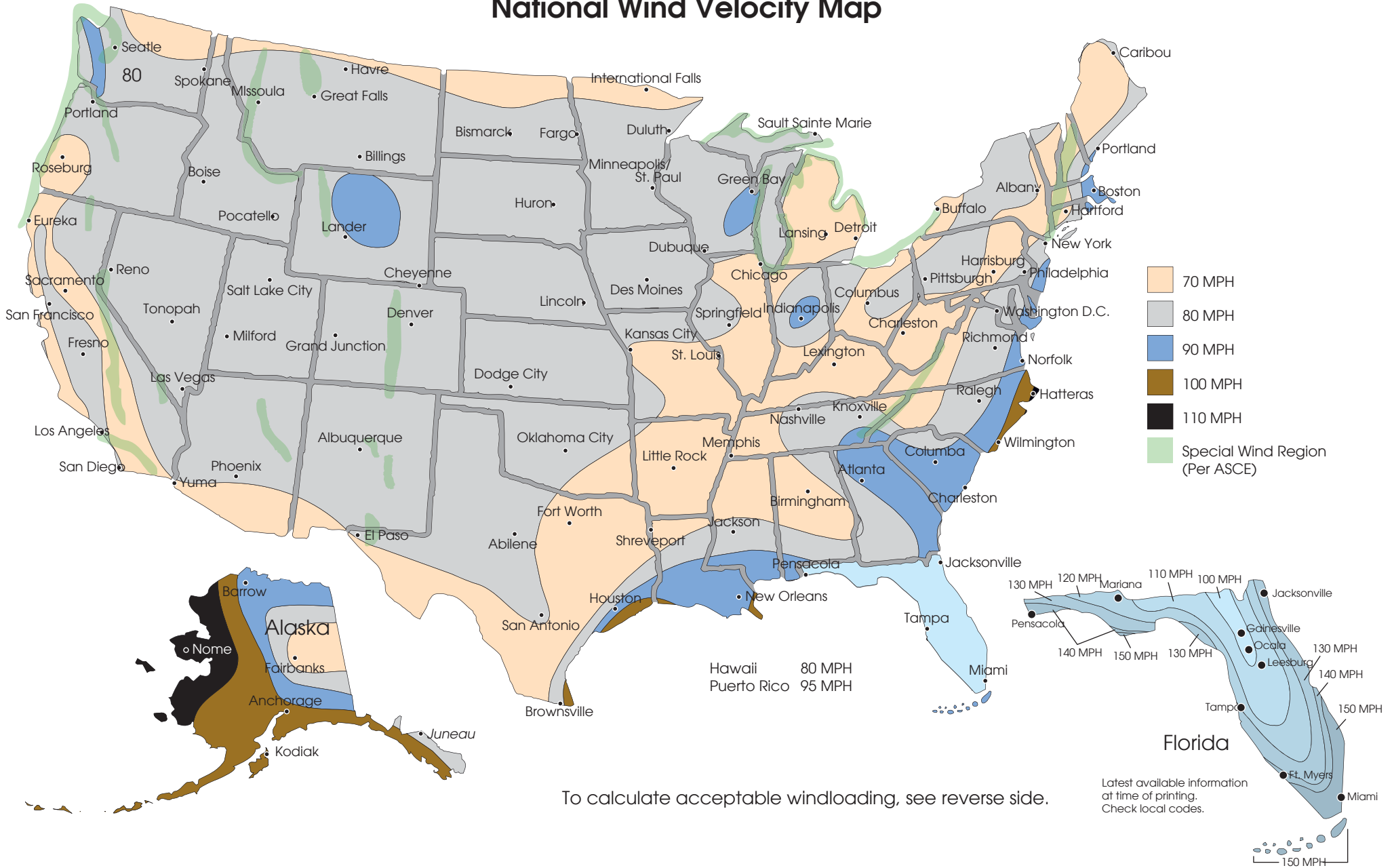
Location: Little Rock, Arkansas
 Wind Rating (from table): **70 MPH**
 Pole: **D23-12**
 Fixture: **D480**

Subtract the total EPA value of all fixtures and brackets from the maximum allowable EPA value of the pole. The result must be positive to be an acceptable combination.

$$\begin{array}{r}
 \text{Max allowable EPA for Pole} \\
 \text{D23-12} \\
 \hline
 14.78 \\
 - \text{D480 Fixture EPA} \\
 \hline
 2.29 \\
 \hline
 \text{Positive result} \\
 \hline
 12.49
 \end{array}$$

★ This formula is for fixtures and brackets only. Accessories can greatly affect windload. Please contact factory for information.

National Wind Velocity Map



To calculate acceptable windloading, see reverse side.

Latest available information at time of printing. Check local codes.