

SSAH Series Poles

SQUARE STRAIGHT ALUMINUM

| | |
|------------|-----------|
| DATE: | LOCATION: |
| TYPE: | PROJECT: |
| CATALOG #: | |

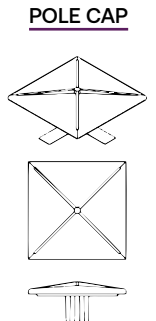
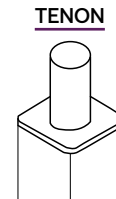
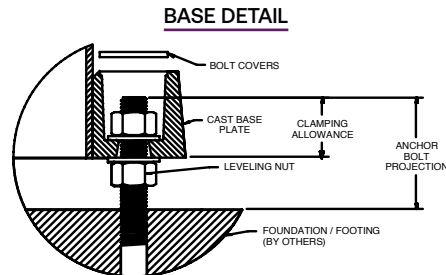
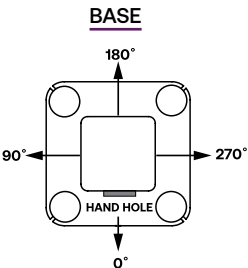
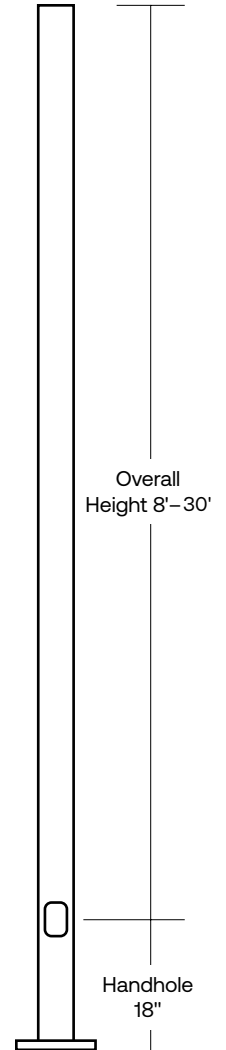
SPECIFICATIONS

CONSTRUCTION

- Shaft: One-piece straight aluminum with square cross section, flat sides and minimum radius on all corners; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum
- Bolt cover: Four (4) individual bolt covers provided, painted to match pole and base finish
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- Hand hole: Rectangular 3x5 aluminum hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- Anchor bolts: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
 - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
1 x 36 x 4 — TAB-36-M38
- Super Durable polyester-TGIC powder coat finish with nominal 3.0 mil thickness. Meets or exceeds AAMA 2604 standards.

INSTALLATION

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



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ORDERING INFORMATION

Example: SSAH25-50B-1-UDP02-BLT

| SSAH Series | Height | Shaft | Thickness | Mounting | Drill Pattern | Finish | Options |
|--|---|---|--|--|---|--|---|
| SSAH Square Straight Aluminum Pole Exo | Reference page 3 Ordering matrix | Reference page 3 Ordering matrix | Reference page 3 Ordering matrix A - .125" Wall B - .188" Wall C - .250" Wall | 1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 4 Four fixtures at 90° TA Tenon (2.38" OD x 4" Tall) OT Open Top (includes pole cap) | B3 2 bolt (2-1/2" spacing), Viper "A" arm S2 2 bolt (3-1/2" spacing), Viper "AD" arm UDP Universal Drill Pattern | BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGT Light Grey Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Color ² | GFI ³ 20 Amp GFCI Receptacle and Cover EHH ³ Extra Handhole C05 ³ 5" Coupling C07 ³ .75" Coupling C20 ³ 2" Coupling VM1 ⁴ Mode vibration dampener VM2 ⁵ 2nd mode vibration dampener LAB Less Anchor Bolts UL UL Certified |

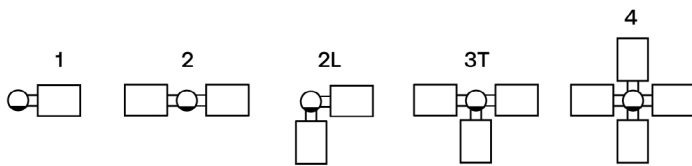
Accessories (Order Separately)

- VM2S08 Field-installed 2nd mode vibration dampener - 8 ft
- VM2S12 Field-installed 2nd mode vibration dampener - 12 ft
- VM2S16 Field-installed 2nd mode vibration dampener - 16 ft
- VM2S20 Field-installed 2nd mode vibration dampener - 20 ft
- VM2S25 Field-installed 2nd mode vibration dampener - 25 ft

- 1 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: SSAH25-50B-1-UDP02-BTL.
- 2 Custom colors available; RAL number preferable
- 3 Specify option location using logic found on page 3 (Option Orientation).
- 4 VM1 recommended on poles 20' and taller with EPA of less than 1. VM1 only available on 4.00" shafts
- 5 There will be a weld witness mark on the side of the pole with the Factory installed VM2

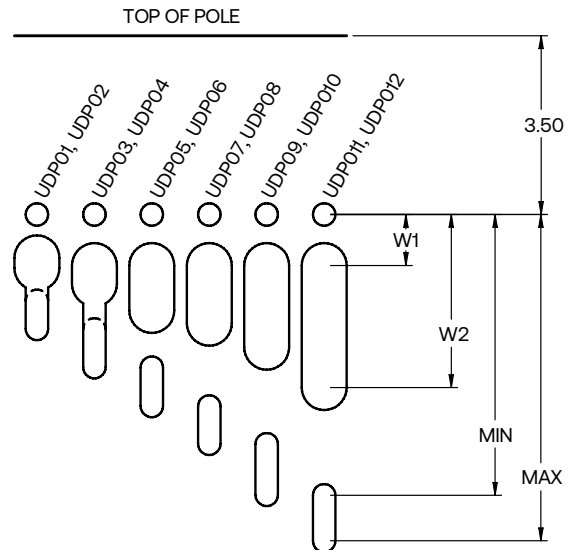
MOUNTING ORIENTATION

○ ← Denotes handhole location



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



| Two Bolt Mounting with Center Wireway | | | | | | |
|---------------------------------------|-----------------------------|-------|-------|-------|-------|--------|
| Mounting Hardware | Universal Mounting Patterns | | | | | |
| 3/16" or less | UDP01 | UDP03 | UDP05 | UDP07 | UDP09 | UDP011 |
| 7/16" to 1/2" | UDP02 | UDP04 | UDP06 | UDP08 | UDP10 | UDP12 |
| "Min" Attachment Dimension | 1.69 | 2.25 | 3.00 | 3.76 | 4.50 | 5.50 |
| "Max" Attachment Dimension | 2.24 | 2.99 | 3.75 | 4.49 | 5.49 | 6.00 |
| W1 (Wireway min) | 0.85 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| W2 (Wireway max) | 1.05 | 1.36 | 1.88 | 2.13 | 2.60 | 3.00 |

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ORDERING INFORMATION (CONTINUED)

| CATALOG NUMBER | HEIGHT | | NOMINAL SHAFT DIMENSIONS | WALL THICKNESS | BOLT CIRCLE | BASE PLATE SIZE | ANCHOR BOLT SIZE | BOLT PROJECTION | POLE WEIGHT (LBS) |
|----------------|--------|--------|--------------------------|----------------|-------------|-----------------|------------------|-----------------|-------------------|
| | FEET | METERS | | | | | | | |
| SSAH08-40A | 8 | 2.4 | 4" Square | .125" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 32 |
| SSAH10-40A | 10 | 3.0 | 4" Square | .125" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 37 |
| SSAH12-40A | 12 | 3.7 | 4" Square | .125" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 42 |
| SSAH14-40A | 14 | 4.3 | 4" Square | .125" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 47 |
| SSAH16-40A | 16 | 4.9 | 4" Square | .125" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 52 |
| SSAH18-40A | 18 | 5.5 | 4" Square | .125" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 57 |
| SSAH20-40A | 20 | 6.1 | 4" Square | .125" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 62 |
| | | | | | | | | | |
| SSAH16-40B | 16 | 4.9 | 4" Square | .188" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 74 |
| SSAH18-40B | 18 | 5.5 | 4" Square | .188" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 80 |
| SSAH20-40B | 20 | 6.1 | 4" Square | .188" | 8.5" | 9.88 x 2" | 3/4 x 30 x 3" | 3" | 85 |
| | | | | | | | | | |
| SSAH18-50B | 18 | 5.5 | 5" Square | .188" | 10.5" | 11.25" x 2.5" | 3/4 x 30 x 3" | 3.5" | 91 |
| SSAH20-50B | 20 | 6.1 | 5" Square | .188" | 10.5" | 11.25" x 2.5" | 3/4 x 30 x 3" | 3.5" | 107 |
| SSAH25-50B | 25 | 7.6 | 5" Square | .188" | 10.5" | 11.25" x 2.5" | 3/4 x 30 x 3" | 3.5" | 130 |
| | | | | | | | | | |
| SSAH16-60B | 16 | 4.9 | 6" Square | .188" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 105 |
| SSAH18-60B | 18 | 5.5 | 6" Square | .188" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 130 |
| SSAH20-60B | 20 | 6.1 | 6" Square | .188" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 155 |
| SSAH25-60B | 25 | 7.6 | 6" Square | .188" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 180 |
| SSAH30-60B | 30 | 9.1 | 6" Square | .188" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 210 |
| | | | | | | | | | |
| SSAH16-60C | 16 | 4.9 | 6" Square | .250" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 121 |
| SSAH18-60C | 18 | 5.5 | 6" Square | .250" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 144 |
| SSAH20-60C | 20 | 6.1 | 6" Square | .250" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 166 |
| SSAH25-60C | 25 | 7.6 | 6" Square | .250" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 224 |
| SSAH30-60C | 30 | 9.1 | 6" Square | .250" | 12" | 12.75" x 2.75" | 1 x 36 x 4" | 3.75" | 258 |

- Notes:**
- Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.
 - For more information about pole vibration and vibration dampeners, please consult factory.
 - Unwrap poles immediately upon receipt to avoid condensation build up and possible corrosion.
 - † There will be a weld witness mark on the side of the pole with the Factory installed VM2.

| | | | | |
|---|---|---|--|--|
| <p>EHH Extra handhole</p> <p>Provision for Grounding</p> | <p>C05 / C07 / C20 Coupling</p> <p>2" -11.5 NPSC Threads 3/4" - 14 NPSC Threads 1/2" - 14 NPSC Threads</p> | <p>VM1 1st mode vibration dampener</p> <p>Field Installed Pole Top dampener designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less. VM1 is only available on 4.00" shafts</p> | <p>VM2[†] 2nd mode vibration dampener</p> <p>Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p> | <p>VM2SXX Field-installed 2nd mode vibration dampener</p> <p>VM2S08 - 8' VM2S12 - 12' VM2S16 - 16' VM2S20 - 20' VM2S24 - 24'</p> <p>Field installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p> |
| <p>GFI 20 Amp GFCI Receptacle & Cover</p> <p>Square Aluminum Pole Standard hand hole frame Adapter plate Gasket 20 AMP GFCI Wet Locations In-use Cover</p> | | <p>Option Orientation</p> <p>Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).</p> <p>Example: Option C05 should be ordered as: SSAH20-40A-TA-DBT-C05-0-15 (5' coupling on the handhole side of pole, 15' up from the pole base) † spacing required between option. Consult factory for other configurations.</p> <p>90° 180° 270° 0° HAND HOLE</p> <p>Height of option in feet</p> | | |

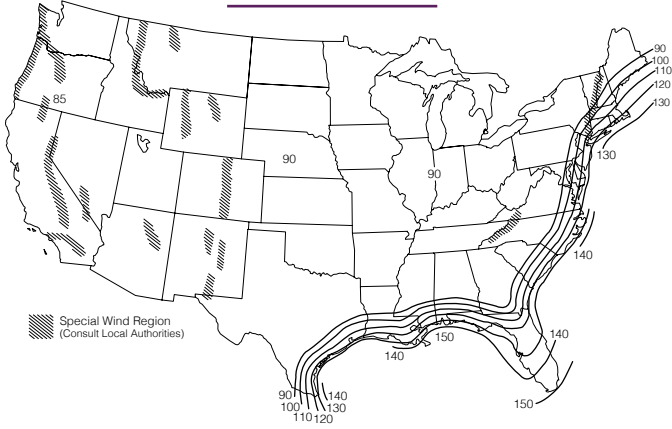
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WIND MAPS

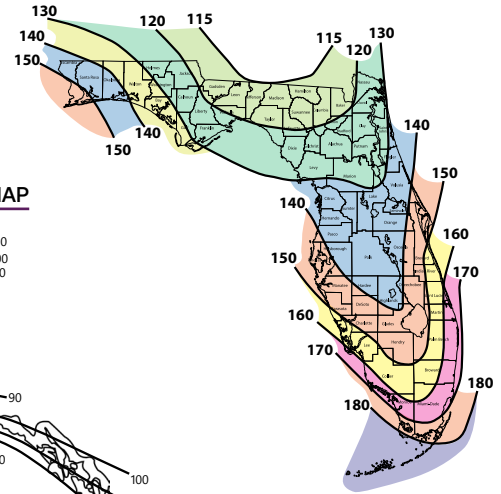
ASCE7-22 WIND MAP



HAWAII – 105 mph
PUERTO RICO – 145 mph

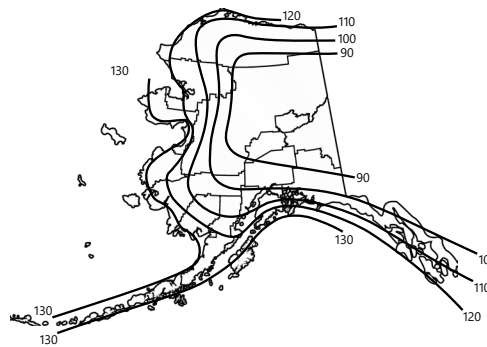
*Printed with permission from ASCE
 **AASHTO LRFDLTS-1

FLORIDA REGION WIND MAP



Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code.

ALASKA REGION WIND MAP



| ASCE 7-22 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida) | | | | | | | | | | |
|--|------|------|------|------|------|------|------|-----|-----|-----|
| Catalog Number | 85 | 90 | 100 | 105 | 110 | 120 | 130 | 140 | 145 | 150 |
| SSAH08-40A | 17.3 | 15.2 | 12.0 | 10.7 | 9.6 | 7.7 | 6.2 | 5.0 | 4.5 | 4.0 |
| SSAH10-40A | 12.6 | 11.0 | 8.4 | 7.4 | 6.5 | 4.9 | 3.7 | 2.8 | 2.4 | 2.0 |
| SSAH12-40A | 9.3 | 7.9 | 5.8 | 4.9 | 4.2 | 2.9 | 1.9 | 1.1 | 0.8 | 0.5 |
| SSAH14-40A | 6.7 | 5.6 | 3.8 | 3.0 | 2.4 | 1.3 | NR | NR | NR | NR |
| SSAH16-40A | 4.7 | 3.7 | 2.1 | 1.4 | 0.9 | NR | NR | NR | NR | NR |
| SSAH18-40A | 2.9 | 2.1 | 0.6 | NR | NR | NR | NR | NR | NR | NR |
| SSAH20-40A | 1.4 | 0.6 | NR | NR | NR | NR | NR | NR | NR | NR |
| SSAH16-40B | 9.2 | 7.7 | 5.4 | 4.5 | 3.7 | 2.3 | 1.2 | NR | NR | NR |
| SSAH18-40B | 6.8 | 5.6 | 3.6 | 2.7 | 2.0 | 0.8 | NR | NR | NR | NR |
| SSAH20-40B | 4.8 | 3.7 | 1.9 | 1.2 | 0.6 | NR | NR | NR | NR | NR |
| SSAH18-50B | 12.9 | 10.9 | 7.6 | 6.3 | 5.1 | 3.2 | 1.7 | 0.5 | NR | NR |
| SSAH20-50B | 9.8 | 8.1 | 5.2 | 4.0 | 3.0 | 1.3 | NR | NR | NR | NR |
| SSAH25-50B | 4.0 | 2.7 | 0.5 | NR | NR | NR | NR | NR | NR | NR |
| SSAH16-60B | 25.0 | 22.3 | 16.9 | 14.7 | 12.7 | 9.6 | 7.0 | 5.0 | 4.2 | 3.4 |
| SSAH18-60B | 20.7 | 17.7 | 13.0 | 11.0 | 9.3 | 6.5 | 4.3 | 2.6 | 1.8 | 1.1 |
| SSAH20-60B | 16.4 | 13.8 | 9.6 | 7.9 | 6.4 | 3.9 | 2.0 | NR | NR | NR |
| SSAH25-60B | 8.3 | 6.3 | 3.1 | 1.8 | 0.7 | NR | NR | NR | NR | NR |
| SSAH30-60B | 2.5 | 0.8 | NR | NR | NR | NR | NR | NR | NR | NR |
| SSAH16-60C | 25.0 | 25 | 24.5 | 21.5 | 19.0 | 14.9 | 11.6 | 9.0 | 7.9 | 6.8 |
| SSAH18-60C | 25.0 | 25 | 19.5 | 17.1 | 14.9 | 11.2 | 8.3 | 6.0 | 5.1 | 4.2 |
| SSAH20-60C | 24.2 | 20.9 | 15.4 | 13.2 | 11.2 | 8.0 | 5.5 | 3.5 | 2.6 | 1.8 |
| SSAH25-60C | 14.2 | 11.6 | 7.5 | 5.8 | 4.3 | 1.9 | NR | NR | NR | NR |
| SSAH30-60C | 7.1 | 5 | 1.7 | NR | NR | NR | NR | NR | NR | NR |

| Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only) | | | | | | | | |
|--|------|------|------|------|------|------|------|-----|
| Catalog Number | 115 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| SSAH08-40A | 14.8 | 13.4 | 11.0 | 9.1 | 7.6 | 6.3 | 5.3 | 4.4 |
| SSAH10-40A | 10.9 | 9.8 | 7.9 | 6.3 | 5.1 | 4.1 | 3.2 | 2.5 |
| SSAH12-40A | 7.9 | 7.0 | 5.4 | 4.1 | 3.0 | 2.2 | 1.5 | 0.9 |
| SSAH14-40A | 5.6 | 4.8 | 3.4 | 2.3 | 1.4 | 0.6 | NR | NR |
| SSAH16-40A | 3.6 | 2.9 | 1.7 | 0.7 | NR | NR | NR | NR |
| SSAH18-40A | 1.8 | 1.2 | NR | NR | NR | NR | NR | NR |
| SSAH20-40A | NR | NR | NR | NR | NR | NR | NR | NR |
| SSAH16-40B | 7.7 | 6.7 | 4.9 | 3.5 | 2.4 | 1.5 | 0.7 | NR |
| SSAH18-40B | 5.4 | 4.5 | 3.0 | 1.8 | 0.8 | NR | NR | NR |
| SSAH20-40B | 3.5 | 2.7 | 1.3 | NR | NR | NR | NR | NR |
| SSAH18-50B | 10.6 | 9.2 | 6.8 | 4.9 | 3.3 | 2.0 | 1.0 | NR |
| SSAH20-50B | 7.8 | 6.5 | 4.4 | 2.7 | 1.3 | NR | NR | NR |
| SSAH25-50B | 2.2 | 1.2 | NR | NR | NR | NR | NR | NR |
| SSAH16-60B | 22.0 | 19.6 | 15.5 | 12.4 | 9.8 | 7.7 | 5.9 | 4.4 |
| SSAH18-60B | 17.2 | 15.2 | 11.7 | 8.9 | 6.6 | 4.8 | 3.3 | 2.0 |
| SSAH20-60B | 13.4 | 11.5 | 8.4 | 6.4 | 4.0 | 2.4 | 1.0 | NR |
| SSAH25-60B | 5.7 | 4.4 | 2.0 | NR | NR | NR | NR | NR |
| SSAH30-60B | NR | NR | NR | NR | NR | NR | NR | NR |
| SSAH16-60C | 25.0 | 25.0 | 22.8 | 18.6 | 15.2 | 12.5 | 10.1 | 8.2 |
| SSAH18-60C | 25.0 | 22.5 | 18.0 | 14.3 | 11.3 | 9.0 | 7.0 | 5.3 |
| SSAH20-60C | 20.4 | 18.0 | 14.0 | 10.8 | 8.2 | 6.0 | 4.3 | 2.8 |
| SSAH25-60C | 11.2 | 9.3 | 6.2 | 3.8 | 1.8 | NR | NR | NR |
| SSAH30-60C | 4.3 | 2.9 | NR | NR | NR | NR | NR | NR |

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NOTES

Wind-speed Website disclaimer:

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- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-22 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Current Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations.
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings