

## SPECIFICATIONS

### Shaft

Square, extruded from 6063 alloy aluminum tubing. Heat treated to produce a T6 temper. Shaft includes a hand hole furnished with cover.

### Drilling Side Mount

A removable pole cap is included. Pole will be drilled to match customer provided drilling template.

### Pole Top Mount

Standard pole top mount is a tenon, with options available in the Mounting column. An aluminum pipe pole top mount is available as an option. For other pole top configurations, please consult the factory.

### Hand Hole Cover

Rectangular 3" x 5" stamped heavy gauge aluminum material Hand Hole Cover, 2 1/4" x 4 1/4" access opening. Sealed door is secured by a formed aluminum bar and a stainless steel, tamper proof screw.

### Base Plate

Cast aluminum constructed of A-356 aluminum alloy heat treated to produce a T6 temper. Structurally engineered base includes eight heavy wall reinforcing vertical gussets. Base telescopes and is circumferentially welded to shaft at both the outside top and inside bottom of the base.

### Anchorage

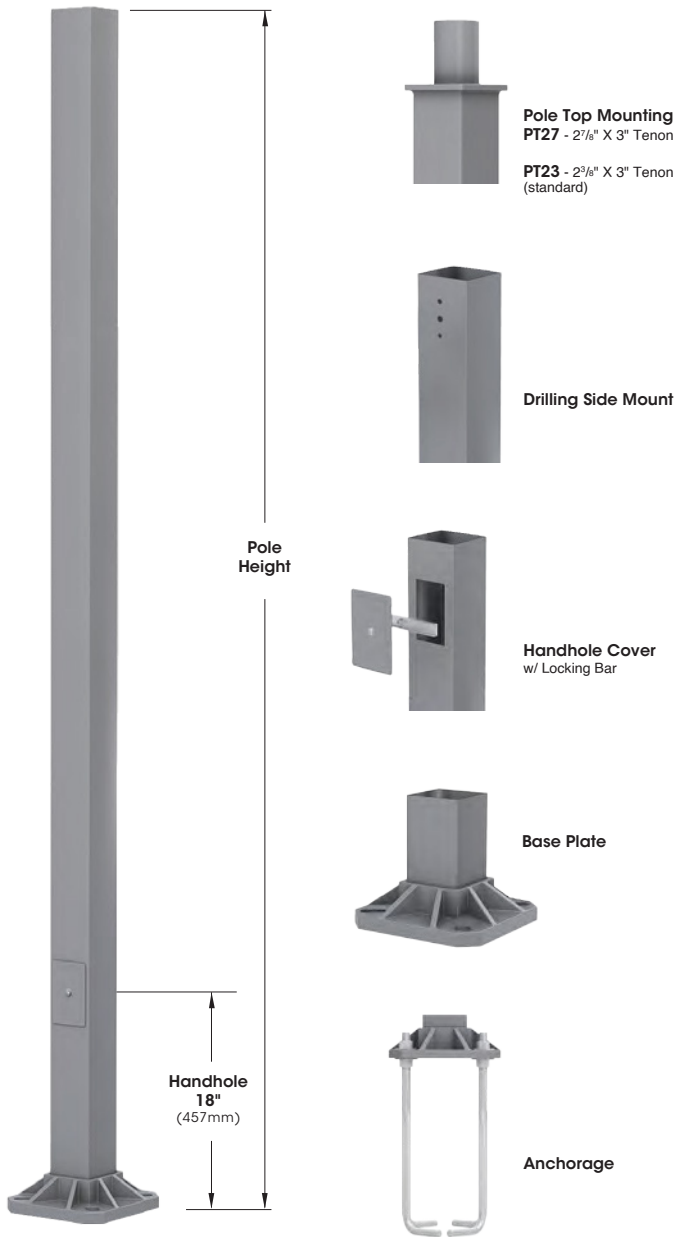
(4) anchor bolts fabricated from hot rolled steel bar. Minimum yield strength of 50,000 P.S.I. Bolts have "L" bend on one end and are threaded on the other. Bolts are fully galvanized and are furnished with two nuts and two washers.

### Base Cover

Fabricated from heavy wall aluminum construction. Two piece cover conceals base.

### Finish

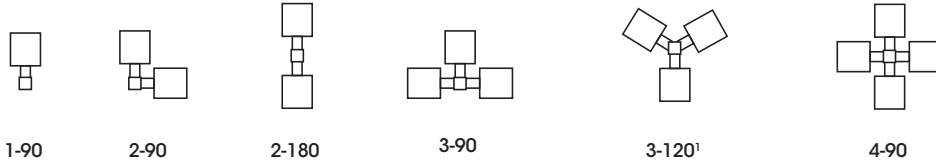
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.



| Pole Model | Pole Sq. | Pole Height |
|------------|----------|-------------|
| SNTA4      | 4"       | 8' - 20'    |
| SNTA5      | 5"       | 12' - 25'   |
| SNTA6      | 6"       | 20' - 25'   |

## DRILLING SIDE MOUNT

Street Side



Sidewalk Side

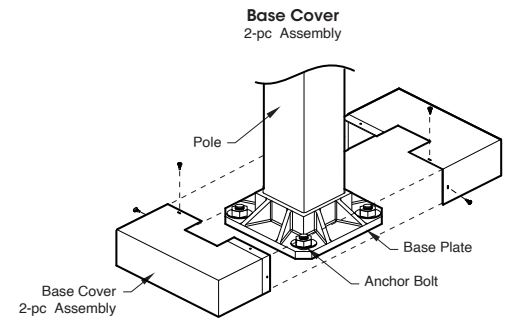
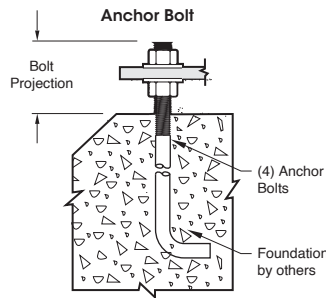
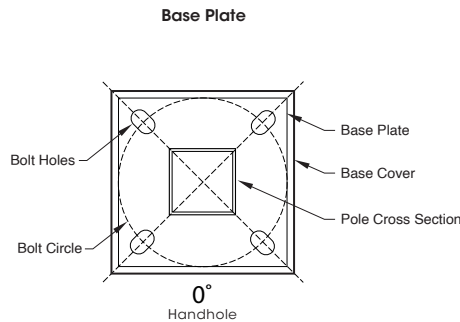
Hand Hole located on Sidewalk Side

### Notes

1- Requires PT27 and T3120 adaptor. (adaptor is rotatable)

[Drilling template must be provided by customer]

## BOLT CIRCLE



|                 | POLE   |      |              |      |       |       |                        |              | ANCHOR BOLTS  |                                               |                                    |                                             | ANCHOR PLATE |                  |                |
|-----------------|--------|------|--------------|------|-------|-------|------------------------|--------------|---------------|-----------------------------------------------|------------------------------------|---------------------------------------------|--------------|------------------|----------------|
| Catalog Number  | Height |      | Bottom - Top |      |       |       | Wall Thickness (In/Ga) | Weight (Lbs) | Bolt Size     | Bolt Projection<br>above grade <sup>2,3</sup> | Bolt Circle Dia Range <sup>1</sup> | Bolt Circle Dia (In)<br>(Rec.) <sup>1</sup> | Template     | Base Plate       | Cover          |
|                 | Ft     | M    | In           |      | Cm    |       |                        |              |               |                                               |                                    |                                             |              |                  |                |
| HL-SNTA 84-125  | 8      | 2.44 | 4.00         | 4.00 | 10.16 | 10.16 | 0.125                  | 26           | ¾" x 18" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 104-125 | 10     | 3.05 | 4.00         | 4.00 | 10.16 | 10.16 | 0.125                  | 30           | ¾" x 18" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 124-125 | 12     | 3.66 | 4.00         | 4.00 | 10.16 | 10.16 | 0.125                  | 35           | ¾" x 18" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 144-125 | 14     | 4.27 | 4.00         | 4.00 | 10.16 | 10.16 | 0.125                  | 39           | ¾" x 18" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 164-125 | 16     | 4.88 | 4.00         | 4.00 | 10.16 | 10.16 | 0.125                  | 44           | ¾" x 24" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 164-188 | 16     | 4.88 | 4.00         | 4.00 | 10.16 | 10.16 | 0.188                  | 61           | ¾" x 24" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 184-188 | 18     | 5.49 | 4.00         | 4.00 | 10.16 | 10.16 | 0.188                  | 68           | ¾" x 24" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 204-188 | 20     | 6.10 | 4.00         | 4.00 | 10.16 | 10.16 | 0.188                  | 74           | ¾" x 24" x 3" | ¾" - ¾"                                       | 9½" - 10½"                         | 10"                                         | HL10         | ¾" x 10" x 10"   | 5" x 12" x 12" |
| HL-SNTA 125-125 | 12     | 3.66 | 5.00         | 5.00 | 12.70 | 12.70 | 0.125                  | 45           | ¾" x 24" x 3" | ¾" - ¾"                                       | 11" - 12"                          | 12"                                         | HL12         | 1" x 11" x 11"   | 5" x 12" x 12" |
| HL-SNTA 145-125 | 14     | 4.27 | 5.00         | 5.00 | 12.70 | 12.70 | 0.125                  | 50           | ¾" x 24" x 3" | ¾" - ¾"                                       | 11" - 12"                          | 12"                                         | HL12         | 1" x 11" x 11"   | 5" x 12" x 12" |
| HL-SNTA 165-125 | 16     | 4.88 | 5.00         | 5.00 | 12.70 | 12.70 | 0.125                  | 56           | ¾" x 24" x 3" | ¾" - ¾"                                       | 11" - 12"                          | 12"                                         | HL12         | 1" x 11" x 11"   | 5" x 12" x 12" |
| HL-SNTA 185-188 | 18     | 5.49 | 5.00         | 5.00 | 12.70 | 12.70 | 0.188                  | 86           | ¾" x 24" x 3" | ¾" - ¾"                                       | 11" - 12"                          | 12"                                         | HL12         | 1" x 11" x 11"   | 5" x 12" x 12" |
| HL-SNTA 205-188 | 20     | 6.10 | 5.00         | 5.00 | 12.70 | 12.70 | 0.188                  | 95           | ¾" x 24" x 3" | ¾" - ¾"                                       | 11" - 12"                          | 12"                                         | HL12         | 1" x 11" x 11"   | 5" x 12" x 12" |
| HL-SNTA 255-188 | 25     | 7.62 | 5.00         | 5.00 | 12.70 | 12.70 | 0.188                  | 116          | ¾" x 24" x 3" | ¾" - ¾"                                       | 11" - 12"                          | 12"                                         | HL12         | 1" x 11" x 11"   | 5" x 12" x 12" |
| HL-SNTA 206-188 | 20     | 6.10 | 6.00         | 6.00 | 15.24 | 15.24 | 0.188                  | 115          | 1" x 36" x 4" | 4" - 4½"                                      | 12" - 13"                          | 13"                                         | HL13         | 1" x 11½" x 11½" | 5" x 12" x 12" |
| HL-SNTA 206-250 | 20     | 6.10 | 6.00         | 6.00 | 15.24 | 15.24 | 0.250                  | 147          | 1" x 36" x 4" | 4" - 4½"                                      | 12" - 13"                          | 13"                                         | HL13         | 1" x 11½" x 11½" | 5" x 12" x 12" |
| HL-SNTA 256-188 | 25     | 7.62 | 6.00         | 6.00 | 15.24 | 15.24 | 0.188                  | 140          | 1" x 36" x 4" | 4" - 4½"                                      | 12" - 13"                          | 13"                                         | HL13         | 1" x 11½" x 11½" | 5" x 12" x 12" |
| HL-SNTA 256-250 | 25     | 7.62 | 6.00         | 6.00 | 15.24 | 15.24 | 0.250                  | 180          | 1" x 36" x 4" | 4" - 4½"                                      | 12" - 13"                          | 13"                                         | HL13         | 1" x 11½" x 11½" | 5" x 12" x 12" |

1 - Not using correct bolt size or "(REC.) Recommended" Bolt Circle could result in Pole's failure.

2 - Bolt Projection is calculated for slopes with 3 degrees or less.

3 - For slopes greater than 3 degrees, please add Bolt Length Projection as necessary.

4 - With 5" poles, max allowable bolt for 11" circle is 3/4".

## ORDERING INFORMATION

**Spec/Order Example:** HL-SNTA204-180/3-90/8019-S

| Pole Model Number   |             |                | Mounting                                                                                | Finish                        | Options                                              |
|---------------------|-------------|----------------|-----------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------|
| Pole Dia.           | Pole Height | Wall Thickness |                                                                                         |                               |                                                      |
| <b>4" Pole Dia.</b> |             |                | <b>Tenon Mount</b>                                                                      | <b>Standard Smooth Finish</b> |                                                      |
| HL-SNTA 84 - 125    | 8'          | 0.125          | PT27 27/8" X 3" Tenon                                                                   | 9005-S Black                  | VBDS-M2 Vibration Dampener<br>2nd Mode Field Install |
| HL-SNTA 104 - 125   | 10'         | 0.125          | PT23 23/8" X 3" Tenon<br>(Standard)                                                     | 9003-S White                  |                                                      |
| HL-SNTA 124 - 125   | 12'         | 0.125          | PT276 27/8" X 6" Tenon                                                                  | 7004-S Grey                   |                                                      |
| HL-SNTA 144 - 125   | 14'         | 0.125          | Other Tenon Mt _____                                                                    | 8019-S Dark Bronze            |                                                      |
| HL-SNTA 164 - 125   | 16'         | 0.125          |                                                                                         | 6005-S Green                  |                                                      |
| HL-SNTA 164 - 188   | 16'         | 0.188          |                                                                                         |                               |                                                      |
| HL-SNTA 184 - 188   | 18'         | 0.188          |                                                                                         |                               |                                                      |
| HL-SNTA 204 - 188   | 20'         | 0.188          |                                                                                         |                               |                                                      |
| <b>5" Pole Dia.</b> |             |                | <b>Drill Mount</b>                                                                      | <b>Premium Finishes</b>       |                                                      |
| HL-SNTA 125 - 125   | 12'         | 0.125          | 1-90   | Custom Specify RAL# _____     |                                                      |
| HL-SNTA 145 - 125   | 14'         | 0.125          | 2-180  | GLV Galvanized                |                                                      |
| HL-SNTA 165 - 125   | 16'         | 0.125          | 2-90   |                               |                                                      |
| HL-SNTA 185 - 188   | 18'         | 0.188          | 3-90   |                               |                                                      |
| HL-SNTA 205 - 188   | 20'         | 0.188          | 4-90   |                               |                                                      |
| HL-SNTA 255 - 188   | 25'         | 0.188          | 3-120  |                               |                                                      |
| <b>6" Pole Dia.</b> |             |                |                                                                                         |                               |                                                      |
| HL-SNTA 206 - 188   | 20'         | 0.188          |                                                                                         |                               |                                                      |
| HL-SNTA 206 - 250   | 20'         | 0.250          |                                                                                         |                               |                                                      |
| HL-SNTA 256 - 188   | 25'         | 0.188          |                                                                                         |                               |                                                      |
| HL-SNTA 256 - 250   | 20'         | 0.250          |                                                                                         |                               |                                                      |

Other heights available  
Please consult factory

## ACCESSORIES



**GFI**  
Duplex GFI  
w/ Cover



**GFI-IU**  
Duplex GFI  
w/ In-Use Cover



**T3120**  
3 Way Adapter  
[Drilling template must be  
provided by customer]



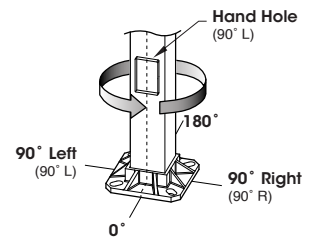
**CPLN**  
1/2", 3/4", 1 1/4", 1 1/2",  
or 2" Coupling



**NPLe**  
1/2", 3/4", 1 1/4", 1 1/2",  
or 2" Nipple

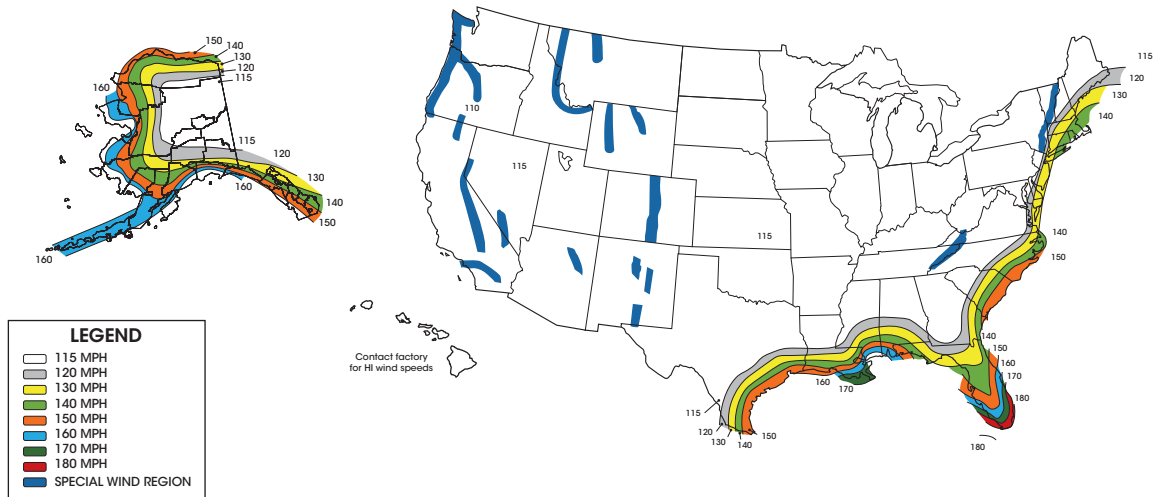
### Location Diagram

Please use this diagram to indicate placement location



Refer to the Accessories Section for other options

## WIND MAP



HL-HL-SNTA 104-300 - 252\*

### EPA INFORMATION (ft<sup>2</sup>)

(per AASHTO LRFDLTS-1 revised 2022)

| Cat. No.        | Weight Capacity Maximum (Lbs.) | 100 MPH | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
|-----------------|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| HL-SNTA 84-125  | 248.5 - 60*                    | 7.1     | 5.3     | 5.1     | 4.3     | 3.7     | 2.7     | 2.3     | 2.1     | 1.9     | 1.7     |
| HL-SNTA 104-125 | 220.5 - 60*                    | 6.3     | 4.9     | 4.1     | 3.8     | 2.8     | 2.4     | 1.7     | 1.4     | 1.2     | 0.7     |
| HL-SNTA 124-125 | 150.5 - 60*                    | 4.3     | 3.5     | 3.1     | 2.3     | 1.9     | 1.2     | 0.8     | 0.4     | 0.2     | 0.0     |
| HL-SNTA 144-125 | 105 - 60*                      | 3.0     | 2.3     | 1.9     | 1.5     | 0.8     | 0.6     | 0.2     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 164-125 | 66.5 - 60*                     | 1.9     | 1.0     | 0.9     | 0.4     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 164-188 | 136.5 - 60*                    | 3.9     | 2.5     | 2.1     | 1.7     | 1.3     | 0.6     | 0.2     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 184-188 | 98 - 60*                       | 2.8     | 1.6     | 1.2     | 0.8     | 0.4     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 204-188 | 60                             | 1.2     | 0.6     | 0.5     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 125-125 | 266 - 60*                      | 7.6     | 6.1     | 5.2     | 4.7     | 3.7     | 2.6     | 2.0     | 1.4     | 1.0     | 0.0     |
| HL-SNTA 145-125 | 199.5 - 60*                    | 5.7     | 4.4     | 3.8     | 3.2     | 2.1     | 1.6     | 0.9     | 0.6     | 0.2     | 0.0     |
| HL-SNTA 165-125 | 140 - 60*                      | 4.0     | 2.8     | 2.0     | 1.8     | 0.9     | 0.6     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 185-188 | 182 - 60*                      | 5.2     | 3.6     | 3.1     | 2.8     | 1.8     | 0.9     | 0.3     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 205-188 | 140 - 60*                      | 4.0     | 2.6     | 1.9     | 1.6     | 0.8     | 0.2     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 255-188 | 60                             | 0.8     | 0.3     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 206-188 | 241.5 - 60*                    | 6.9     | 5.0     | 3.9     | 3.2     | 2.1     | 1.1     | 0.3     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 206-250 | 300 - 60*                      | 10.9    | 7.9     | 6.6     | 5.9     | 4.3     | 3.1     | 1.8     | 1.0     | 0.6     | 0.0     |
| HL-SNTA 256-188 | 73.5 - 60*                     | 2.1     | 0.6     | 0.2     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 256-250 | 171.5 - 60*                    | 4.9     | 3.0     | 2.5     | 1.6     | 0.7     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

### EPA INFORMATION (ft<sup>2</sup>)

(per 2020 FL Building Code)

| Cat. No.        | Weight Capacity Maximum (Lbs.) | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
|-----------------|--------------------------------|---------|---------|---------|---------|---------|---------|---------|
| HL-SNTA 84-125  | 140 - 60*                      | 4.0     | 3.3     | 2.5     | 2.2     | 1.9     | 1.8     | 1.6     |
| HL-SNTA 104-125 | 119.7 - 60*                    | 3.4     | 2.5     | 2.2     | 1.6     | 1.3     | 1.1     | 0.7     |
| HL-SNTA 124-125 | 74.06 - 60*                    | 2.1     | 1.8     | 1.1     | 0.7     | 0.4     | 0.2     | 0.0     |
| HL-SNTA 144-125 | 60                             | 1.4     | 0.7     | 0.6     | 0.2     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 164-125 | 60                             | 0.4     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 164-188 | 60                             | 1.5     | 1.2     | 0.6     | 0.2     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 184-188 | 60                             | 0.7     | 0.4     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 204-188 | N/A                            | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 125-125 | 152.99 - 60*                   | 4.4     | 3.4     | 2.4     | 1.9     | 1.3     | 0.9     | 0.5     |
| HL-SNTA 145-125 | 100.8 - 60*                    | 2.9     | 1.9     | 1.4     | 0.8     | 0.6     | 0.2     | 0.0     |
| HL-SNTA 165-125 | 60                             | 1.7     | 0.8     | 0.6     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 185-188 | 88.2 - 60*                     | 2.5     | 1.7     | 0.8     | 0.3     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 205-188 | 60                             | 1.5     | 0.7     | 0.2     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 255-188 | N/A                            | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 206-188 | 103.04 - 60*                   | 2.9     | 1.9     | 1.0     | 0.3     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 206-250 | 185.85 - 60*                   | 5.3     | 3.9     | 2.9     | 1.7     | 0.9     | 0.5     | 0.0     |
| HL-SNTA 256-188 | N/A                            | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| HL-SNTA 256-250 | 70 - 60*                       | 2.0     | 1.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

\* Please use the following to obtain the proper weight capacity: The maximum fixture weight equals 60 lbs. or the product of 35 lbs. x the EPA value, whichever is greater, not to exceed 300 lbs. Example, EPA = 2.2 , weight = 35 lbs. x 2.2 EPA = 77 lbs.

#### Notes

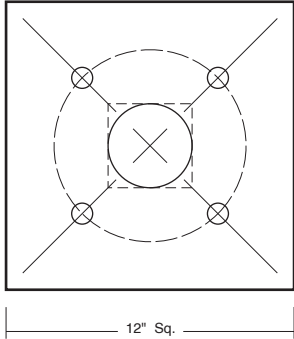
- Specifier is responsible for correct pole selection. For proper pole choice, the specifier must consider the total EPA of fixtures, banners, arms, and any other accessories attached to pole assembly.
- ALL EPAs are calculated for ground installations. For installations on bridges, buildings or other structures, the specifier must contact the factory or consult with a structural Engineer
- Unpredictable aerodynamic forces such as wind-induced vibrations are not included in wind velocity ratings or EPA ratings.
- Wind gust factors are considered in developing all EPA chart data.

#### To mitigate 2nd Mode (Aeolian) Vibration please read the following Recommendations:

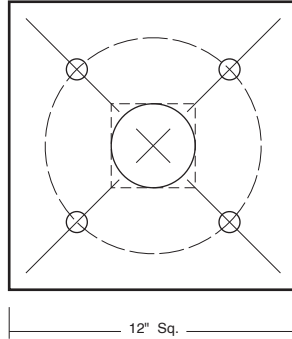
- We do not recommend the installation of poles without a fixture; such installation have been known to fail due to high pole vibrations. Replace with note 1 above
- Pole installations with a combined (fixtures, banners, flags, etc.) of less than 0.75 ft<sup>2</sup> EPA and 25 feet or taller should be installed with a vibration dampener. Please consult with your site structural engineer.

**ANCHOR BOLT TEMPLATES**
**HL8**

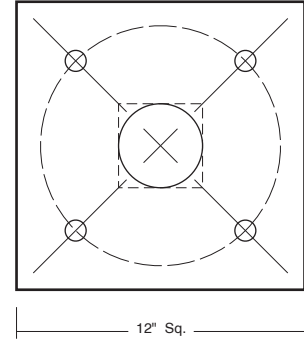
8" Bolt Circle


**HL9**

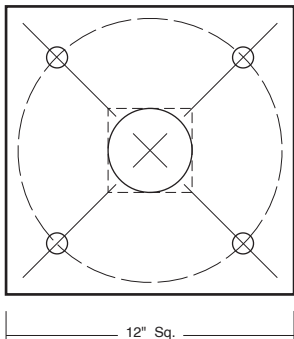
9" Bolt Circle


**HL10**

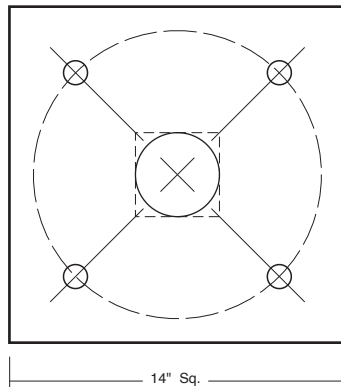
10" Bolt Circle


**HL11**

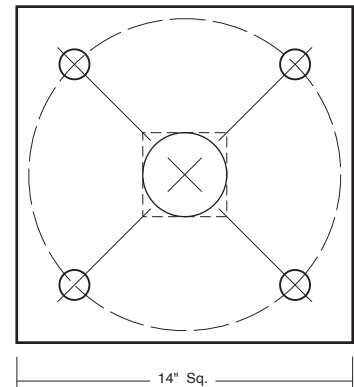
11" Bolt Circle


**HL12**

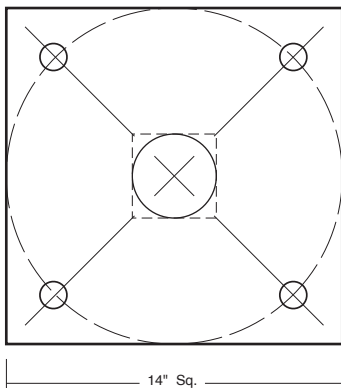
12" Bolt Circle


**HL13**

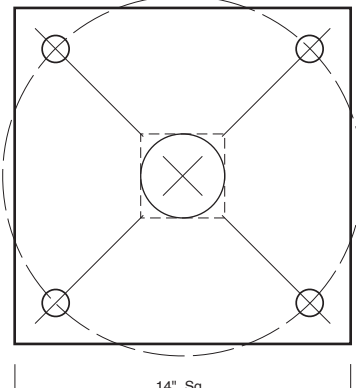
13" Bolt Circle


**HL14**

14" Bolt Circle


**HL15**

15" Bolt Circle


**HL16**

16" Bolt Circle

