

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

## 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 - PT27, fabricated from 2.5" (2.875" O.D.) aluminum pipe - tenon options available for pole tops please see Mounting column. For other pole top configurations please consult 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.

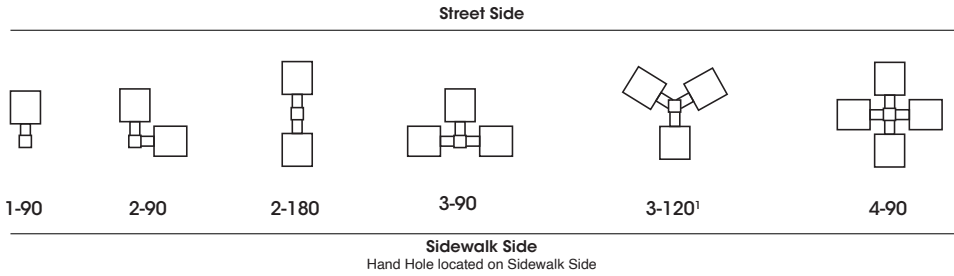
### Base Cover

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

### Finish

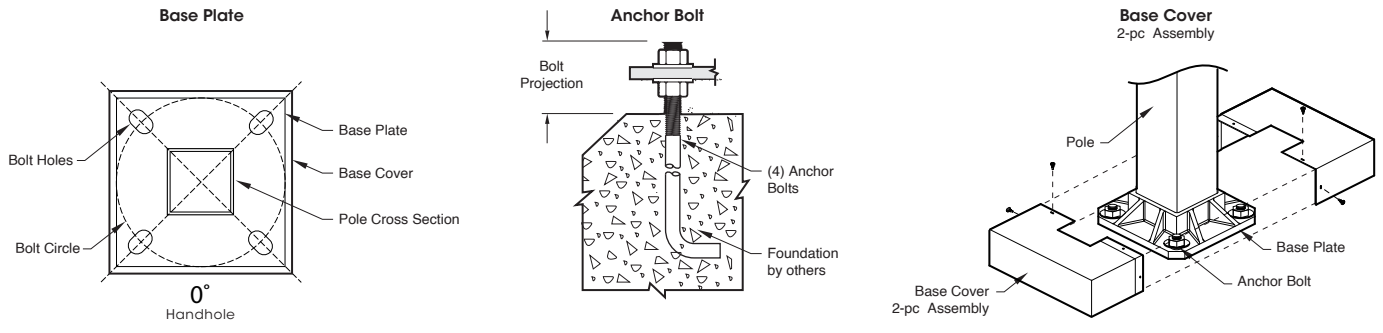
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

## DRILLING SIDE MOUNT



**Notes**  
 1- Requires PT27 and T3120 adapter. (adaptor is rotatable)  
 [Drilling template must be provided by customer]







## BOLT CIRCLE



| Catalog Number  | POLE   |      | ANCHOR BOLTS |      |       |       |                        |              | ANCHOR PLATE    |  |                                    |  |          |                        |                |
|-----------------|--------|------|--------------|------|-------|-------|------------------------|--------------|-----------------|--|------------------------------------|--|----------|------------------------|----------------|
|                 | Height |      | Bottom - Top |      |       |       | Wall Thickness (In/Ga) | Weight (Lbs) | Bolt Size       | Bolt Projection above grade <sup>2,3</sup> | Bolt Circle Dia Range <sup>1</sup> | Bolt Circle Dia (In) (Rec.) <sup>1</sup> | Template | Base Plate             | Cover          |
|                 | Ft     | M    | In           | Cm   | In    | Cm    |                        |              |                 |  |                                    |  |          |                        |                |
| HL-SNTA 84-125  | 8      | 2.44 | 4.00         | 4.00 | 10.16 | 10.16 | 0.125                  | 26           | 3/4" x 18" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 18" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 18" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 18" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 9 1/2" - 10 1/2"                   | 10"                                      | HL10     | 3/4" 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 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           | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 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          | 3/4" x 24" x 3" | 3/4" - 3/4"                                | 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" - 4 1/2"                                | 12" - 13"                          | 13"                                      | HL13     | 1" x 11 1/2" x 11 1/2" | 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" - 4 1/2"                                | 12" - 13"                          | 13"                                      | HL13     | 1" x 11 1/2" x 11 1/2" | 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" - 4 1/2"                                | 12" - 13"                          | 13"                                      | HL13     | 1" x 11 1/2" x 11 1/2" | 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" - 4 1/2"                                | 12" - 13"                          | 13"                                      | HL13     | 1" x 11 1/2" x 11 1/2" | 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   |  |  |
|---|---|--|---|--|---|--|--|
| <b>4" Pole Dia.</b><br>Pole Height      Wall Thickness<br>HL-SNTA 84 - 125    8'      0.125<br>HL-SNTA 104 - 125   10'      0.125<br>HL-SNTA 124 - 125   12'      0.125<br>HL-SNTA 144 - 125   14'      0.125<br>HL-SNTA 164 - 125   16'      0.125<br>HL-SNTA 164 - 188   16'      0.188<br>HL-SNTA 184 - 188   18'      0.188<br>HL-SNTA 204 - 188   20'      0.188 | <b>Tenon Mount</b><br>PT27    27/8" X 3" Tenon (Standard)<br>PT23    23/8" X 3" Tenon<br>PT276   27/8" X 6" Tenon<br>Other Tenon Mt    ____   |  | <b>Standard Smooth Finish</b><br>9005-S    Black<br>9003-S    White<br>7004-S    Grey<br>8019-S    Dark Bronze<br>6005-S    Green |  | VBDS-M2    Vibration Dampener<br>2nd Mode Field Install   |  |  |
|   | <b>Drill Mount</b><br>1-90 <br>2-180 <br>2-90 <br>3-90 <br>4-90 <br>3-120 <br><br>3-120 requires PT27 and T3120 Adapter<br>[Drilling template must be provided by customer] |  | <b>Premium Finishes</b><br>Custom Specify RAL# _____<br>GLV      Galvanized   |  | <b>Receptacle</b><br>GFI      G.F.I. Receptacle w/ Cover<br>GFI-IU    G.F.I. Receptacle w/ In-Use Cover<br>[Specify GFI location: Height and Direction]<br>See Location Diagram below<br>T3120      3 Way Adapter<br>[Drilling template must be provided by customer] |  |  |
|   | <b>5" Pole Dia.</b><br>HL-SNTA 125 - 125   12'      0.125<br>HL-SNTA 145 - 125   14'      0.125<br>HL-SNTA 165 - 125   16'      0.125<br>HL-SNTA 185 - 188   18'      0.188<br>HL-SNTA 205 - 188   20'      0.188<br>HL-SNTA 255 - 188   25'      0.188   | <b>Coupling</b><br>CPLN12    1/2" Coupling<br>CPLN34    3/4" Coupling<br>CPLN114   1 1/4" Coupling<br>CPLN112   1 1/2" Coupling<br>CPLN2      2" Coupling<br><br>[Specify Coupling location: Height and Direction]<br>See Location Diagram below |   | <b>Nipple</b><br>NPLE12    1/2" Nipple<br>NPLE34    3/4" Nipple<br>NPLE114   1 1/4" Nipple<br>NPLE112   1 1/2" Nipple<br>NPLE2      2" Nipple<br><br>[Specify Coupling location: Height and Direction]<br>See Location Diagram below |   |  |  |
|   |   | <b>6" Pole Dia.</b><br>HL-SNTA 206 - 188   20'      0.188<br>HL-SNTA 206 - 250   20'      0.250<br>HL-SNTA 256 - 188   25'      0.188<br>HL-SNTA 256 - 250   20'      0.250  |   |  |   |  |  |
|   |   |  |   |  |   |  |  |
|   |   |  |   |  |   |  |  |
|   |   |  |   |  |   |  |  |
|   |   | Other heights available<br>Please consult factory  |   |  |   |  |  |

**ACCESSORIES**

**GFI**  
 Duplex GFI  
 w/ Cover

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

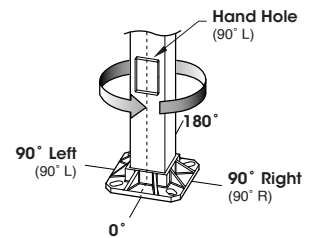
**T3120**  
 3 Way Adapter  
 [Drilling template must be provided by customer]

**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

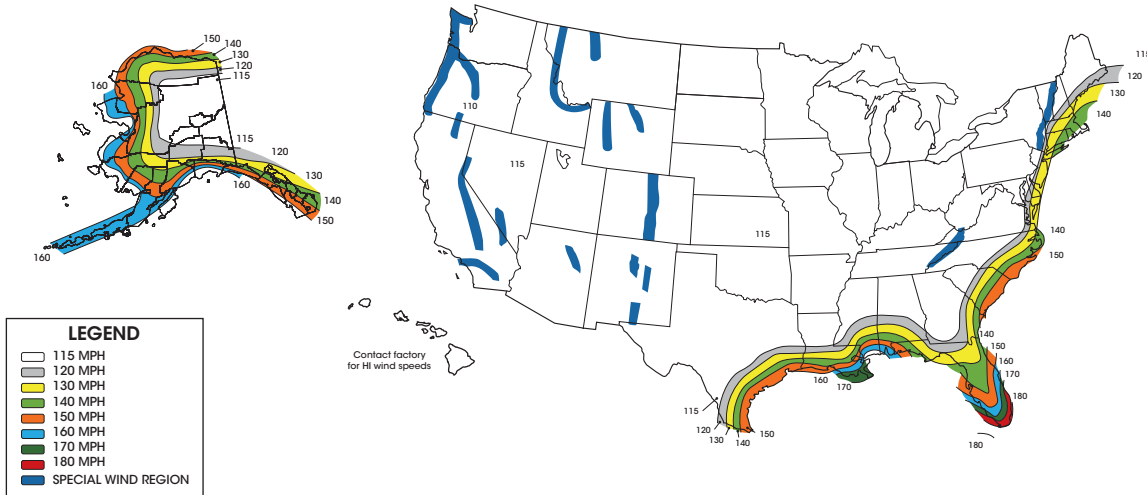
**Location Diagram**

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     |

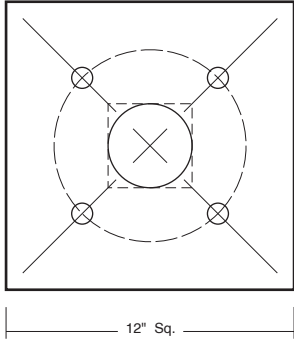
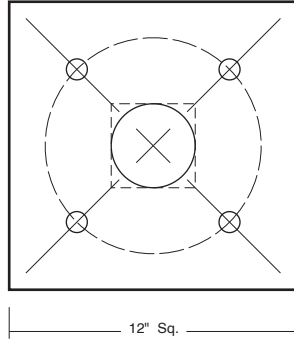
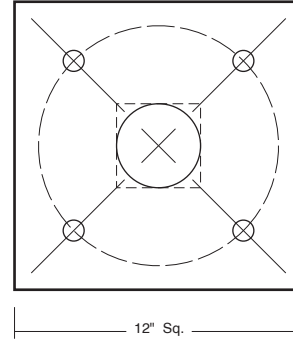
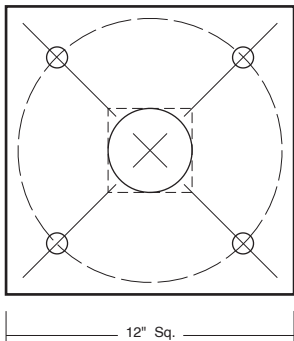
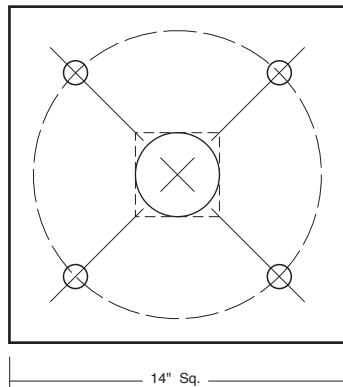
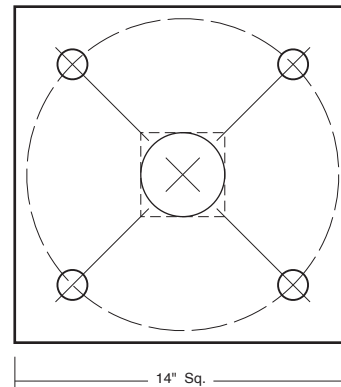
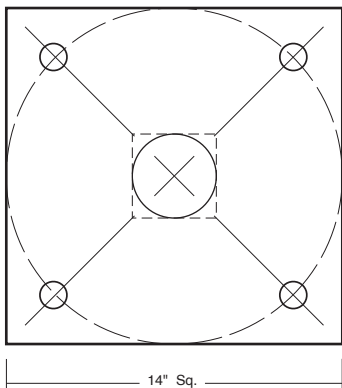
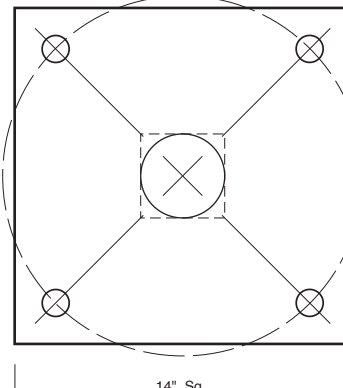
\* Please use the following to obtain the proper weight capacity: The maximum fixture weight equals 60 lbs. or the product of 35 lbs. x the EPA value, whichever is greater, not to exceed 300 lbs. Example, EPA = 2.2, weight = 35 lbs. x 2.2 EPA = 77 lbs.

#### 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
