

SQUARE NON-TAPERED ALUMINUM POLE

# SNTA

### 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 U.S. Architectural fixtures. For other Drilling required, please specify DP after specified drill pattern. (example: 2-180DP)

### 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

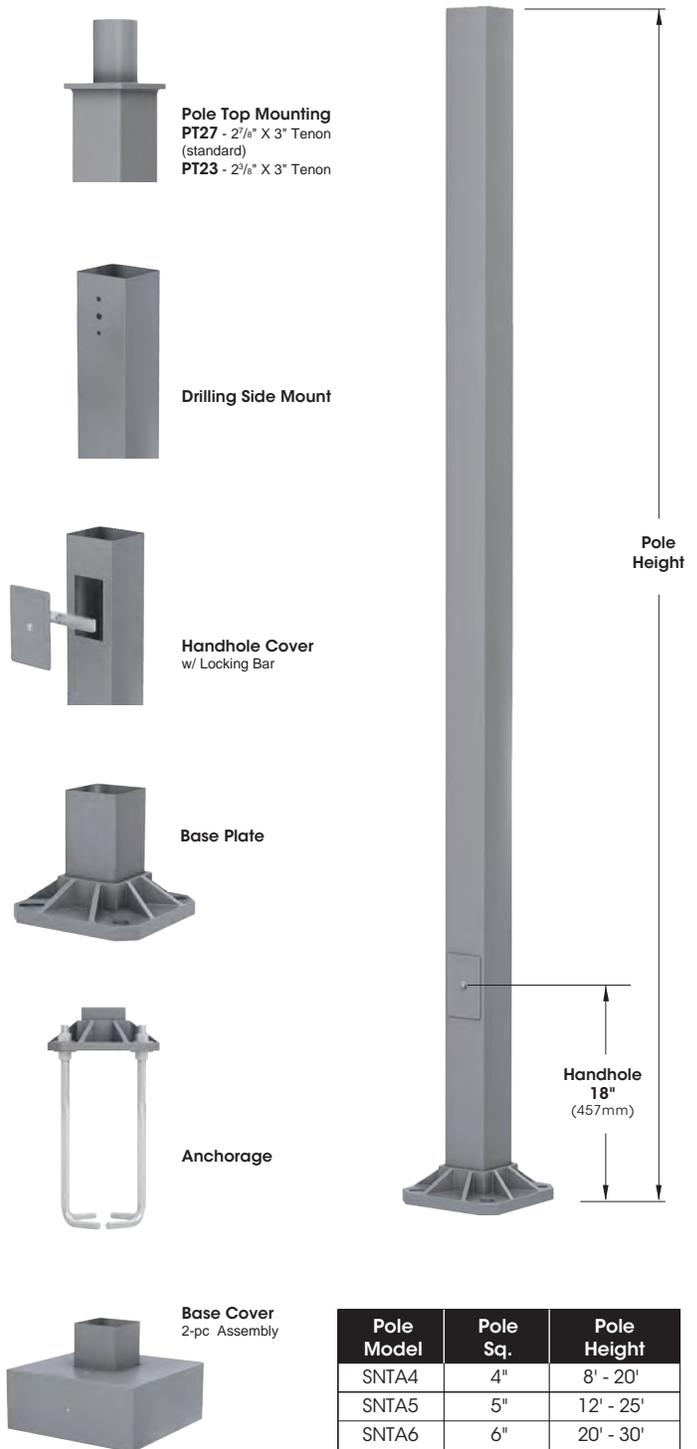
(4) anchor bolts fabricated from hot rolled steel bar. Minimum yield strength of 50,000 P.S.I. Bolts have "L" bend on one end and are threaded on the other. Bolts are fully galvanized and are furnished with two nuts and two washers.

### Base Cover

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

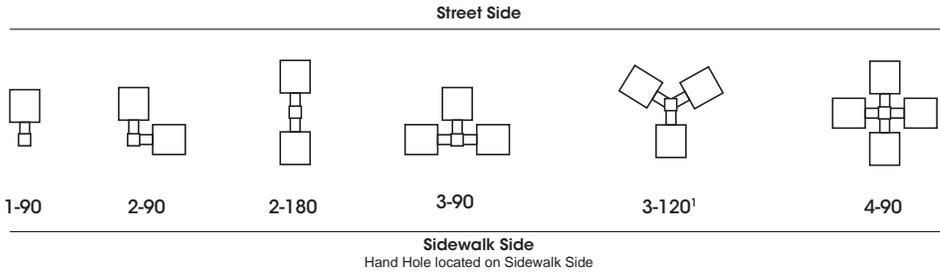
### Finish

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.



Pole Model	Pole Sq.	Pole Height
SNTA4	4"	8' - 20'
SNTA5	5"	12' - 25'
SNTA6	6"	20' - 30'

## DRILLING SIDE MOUNT



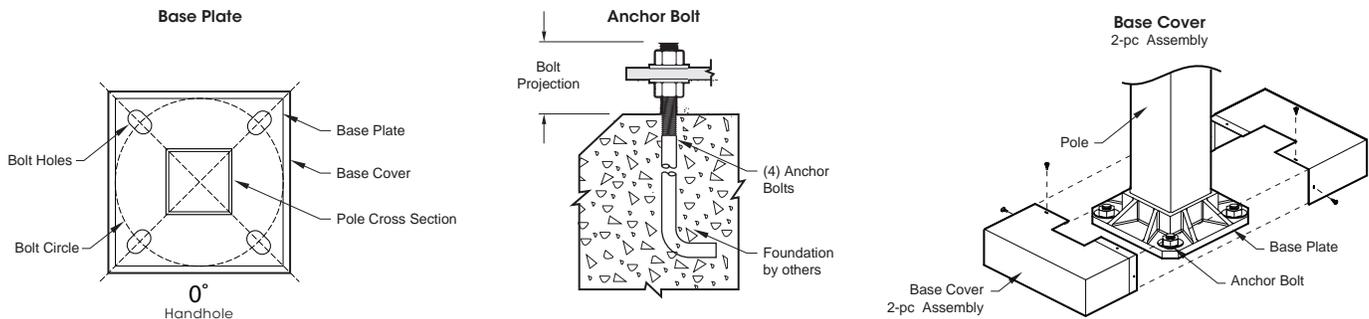
### Notes

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

When drilling pattern from other manufacturer's fixture is required, add "DP" to drill specifications. (Example: 2-180DP) **Drilling template must be provided.**

In the case of other manufacturer's drilling pattern, customer must provide drilling pattern.

## 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									
SNTA 84-125	8	2.44	4.00	4.00	10.16	10.16	0.125	26	3/4" x 18" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 104-125	10	3.05	4.00	4.00	10.16	10.16	0.125	30	3/4" x 18" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 124-125	12	3.66	4.00	4.00	10.16	10.16	0.125	35	3/4" x 18" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 144-125	14	4.27	4.00	4.00	10.16	10.16	0.125	39	3/4" x 18" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 164-125	16	4.88	4.00	4.00	10.16	10.16	0.125	44	3/4" x 24" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 164-188	16	4.88	4.00	4.00	10.16	10.16	0.188	61	3/4" x 24" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 184-188	18	5.49	4.00	4.00	10.16	10.16	0.188	68	3/4" x 24" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 204-188	20	6.10	4.00	4.00	10.16	10.16	0.188	74	3/4" x 24" x 3"	3 1/4" - 3 3/4"	9 1/2" - 10 1/2"	10"	US10	3/4" x 10" x 10"	5" x 12" x 12"
SNTA 125-125	12	3.66	5.00	5.00	12.70	12.70	0.125	45	3/4" x 24" x 3"	3 1/4" - 3 3/4"	11" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
SNTA 145-125	14	4.27	5.00	5.00	12.70	12.70	0.125	50	3/4" x 24" x 3"	3 1/4" - 3 3/4"	11" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
SNTA 165-125	16	4.88	5.00	5.00	12.70	12.70	0.125	56	3/4" x 24" x 3"	3 1/4" - 3 3/4"	11" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
SNTA 185-188	18	5.49	5.00	5.00	12.70	12.70	0.188	86	3/4" x 24" x 3"	3 1/4" - 3 3/4"	11" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
SNTA 205-188	20	6.10	5.00	5.00	12.70	12.70	0.188	95	3/4" x 24" x 3"	3 1/4" - 3 3/4"	11" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
SNTA 255-188	25	7.62	5.00	5.00	12.70	12.70	0.188	116	3/4" x 24" x 3"	3 1/4" - 3 3/4"	11" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
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"	US13	1" x 11 1/2" x 11 1/2"	5" x 12" x 12"
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"	US13	1" x 11 1/2" x 11 1/2"	5" x 12" x 12"
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"	US13	1" x 11 1/2" x 11 1/2"	5" x 12" x 12"
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"	US13	1" x 11 1/2" x 11 1/2"	5" x 12" x 12"
SNTA 306-250	30	9.15	6.00	6.00	15.24	15.24	0.250	214	1" x 36" x 4"	4" - 4 1/2"	12" - 13"	13"	US13	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: SNTA144-125/2-90/RAL-6005-T

Pole Model Number			Mounting	Finish	Options		
Pole Model Number			Mounting	Finish	Options		
4" Pole Sq.	Pole Height	Wall Thickness	<b>Tenon Mount</b> <input type="checkbox"/> 27/8" X 3" Tenon <b>PT27</b> (Standard) <input type="checkbox"/> 23/8" X 3" Tenon <b>PT23</b> <input type="checkbox"/> 27/8" X 6" Tenon <b>PT276</b> <input type="checkbox"/> Other Tenon Mt _____  <b>Drill Mount</b> <input type="checkbox"/> 1-90 ..... <input type="checkbox"/> 2-180 ..... <input type="checkbox"/> 2-90 ..... <input type="checkbox"/> 3-90 ..... <input type="checkbox"/> 4-90 ..... <input type="checkbox"/> 3-120 .....  3-120 requires PT27 and T3120 Adapter  2-90, 3-90, 4-90 requires PT27 and T490 Adapter  When Drilling Pattern from other manufacturer is required, add "DP" to drill specifications (Example: 2-180DP) <b>Drilling template must be provided.</b>	<b>Standard Smooth Finish</b> <input type="checkbox"/> Black <b>RAL-9005-S</b> <input type="checkbox"/> White <b>RAL-9003-S</b> <input type="checkbox"/> Grey <b>RAL-7004-S</b> <input type="checkbox"/> Dark Bronze <b>RAL-8019-S</b> <input type="checkbox"/> Green <b>RAL-6005-S</b>  <b>Premium Finishes</b> <input type="checkbox"/> Rust <input type="checkbox"/> Patina Copper <b>PC</b> <input type="checkbox"/> Custom Specify RAL# _____ <input type="checkbox"/> Anodized <b>AZ</b>  For Smooth Finish replace suffix "T" with suffix "T" Example: RAL-9005-S  See USALTG.COM for additional colors	<input type="checkbox"/> Vibration Dampener 2nd Mode Field Install <b>VBDS-M2</b>  <b>Receptacle</b> <input type="checkbox"/> G.F.I. Receptacle w/ Cover <b>GFI</b> <input type="checkbox"/> G.F.I. Receptacle w/ In-Use Cover <b>GFI-U</b> [Specify GFI location: Height and Direction] See Location Diagram below <input type="checkbox"/> 3 Way Adapter <b>T3120</b> <input type="checkbox"/> 4 Way Adapter <b>T490</b>  <b>Coupling</b> <input type="checkbox"/> 1/2" Coupling <b>CPLN12</b> <input type="checkbox"/> 3/4" Coupling <b>CPLN34</b> <input type="checkbox"/> 1 1/4" Coupling <b>CPLN114</b> <input type="checkbox"/> 1 1/2" Coupling <b>CPLN112</b> <input type="checkbox"/> 2" Coupling <b>CPLN2</b> [Specify Coupling location: Height and Direction] See Location Diagram below  <b>Nipple</b> <input type="checkbox"/> 1/2" Nipple <b>NPLE12</b> <input type="checkbox"/> 3/4" Nipple <b>NPLE34</b> <input type="checkbox"/> 1 1/4" Nipple <b>NPLE114</b> <input type="checkbox"/> 1 1/2" Nipple <b>NPLE112</b> <input type="checkbox"/> 2" Nipple <b>NPLE2</b> [Specify Coupling location: Height and Direction] See Location Diagram below  <b>Location Diagram</b> Please use this diagram to indicate placement location    Refer to the Accessories Section for other options		
	<input type="checkbox"/> SNTA 84 - 125	8'				0.125	
	<input type="checkbox"/> SNTA 104 - 125	10'				0.125	
	<input type="checkbox"/> SNTA 124 - 125	12'				0.125	
	<input type="checkbox"/> SNTA 144 - 125	14'				0.125	
	<input type="checkbox"/> SNTA 164 - 125	16'				0.125	
	<input type="checkbox"/> SNTA 164 - 188	16'				0.188	
	<input type="checkbox"/> SNTA 184 - 188	18'				0.188	
	<input type="checkbox"/> SNTA 204 - 188	20'				0.188	
	Other heights available Please consult factory						
	5" Pole Sq.	<input type="checkbox"/> SNTA 125 - 125				12'	0.125
		<input type="checkbox"/> SNTA 145 - 125				14'	0.125
<input type="checkbox"/> SNTA 165 - 125		16'	0.125				
<input type="checkbox"/> SNTA 185 - 188		18'	0.188				
<input type="checkbox"/> SNTA 205 - 188		20'	0.188				
<input type="checkbox"/> SNTA 255 - 188		25'	0.188				
6" Pole Sq.	<input type="checkbox"/> SNTA 206 - 188	20'	0.188				
	<input type="checkbox"/> SNTA 206 - 250	20'	0.250				
	<input type="checkbox"/> SNTA 256 - 188	25'	0.188				
	<input type="checkbox"/> SNTA 256 - 250	20'	0.250				
	<input type="checkbox"/> SNTA 306 - 250	30'	0.250				

## OPTIONS



**GFI**  
Duplex GFI w/ Cover



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



**T3120**  
3 Way Adapter



**T490**  
4 Way Adapter

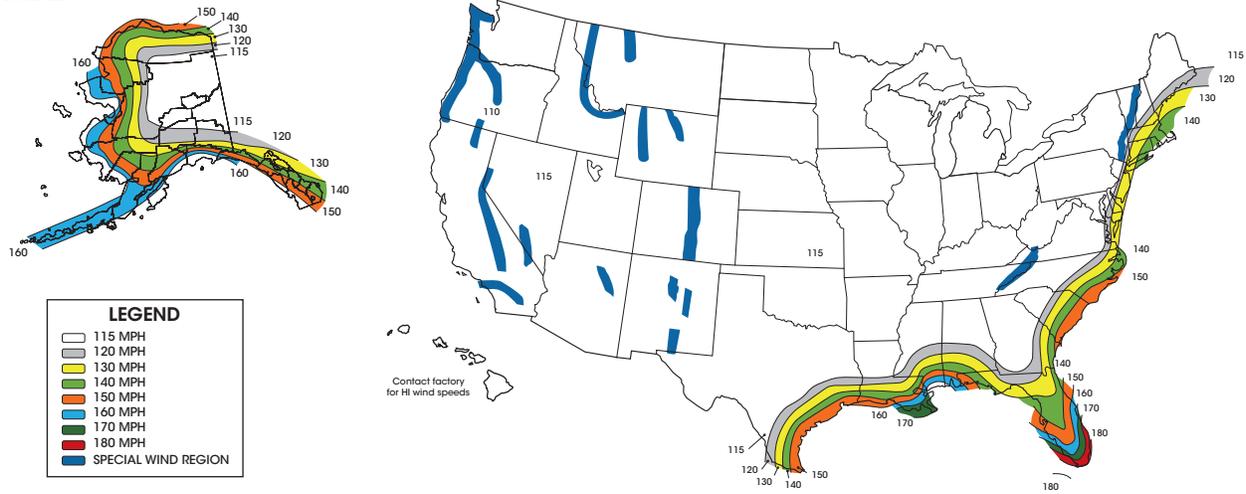


**CPLN**  
1/2", 3/4", 1 1/4", 1 1/2", or 2" Coupling



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

## WIND MAP



## 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
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
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
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
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
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
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
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
SNTA 204-188	60	1.2	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
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
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
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
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
SNTA 255-188	60	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
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
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
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
SNTA 306-250	60	1.3	0.0	0.0	0.0	0.0	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
SNTA 84-125	140 - 60*	4.0	3.3	2.5	2.2	1.9	1.8	1.6
SNTA 104-125	119.7 - 60*	3.4	2.5	2.2	1.6	1.3	1.1	0.7
SNTA 124-125	74.06 - 60*	2.1	1.8	1.1	0.7	0.4	0.2	0.0
SNTA 144-125	60	1.4	0.7	0.6	0.2	0.0	0.0	0.0
SNTA 164-125	60	0.4	0.0	0.0	0.0	0.0	0.0	0.0
SNTA 164-188	60	1.5	1.2	0.6	0.2	0.0	0.0	0.0
SNTA 184-188	60	0.7	0.4	0.0	0.0	0.0	0.0	0.0
SNTA 204-188	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SNTA 125-125	152.99 - 60*	4.4	3.4	2.4	1.9	1.3	0.9	0.5
SNTA 145-125	100.8 - 60*	2.9	1.9	1.4	0.8	0.6	0.2	0.0
SNTA 165-125	60	1.7	0.8	0.6	0.0	0.0	0.0	0.0
SNTA 185-188	88.2 - 60*	2.5	1.7	0.8	0.3	0.0	0.0	0.0
SNTA 205-188	60	1.5	0.7	0.2	0.0	0.0	0.0	0.0
SNTA 255-188	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SNTA 206-188	103.04 - 60*	2.9	1.9	1.0	0.3	0.0	0.0	0.0
SNTA 206-250	185.85 - 60*	5.3	3.9	2.9	1.7	0.9	0.5	0.0
SNTA 256-188	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SNTA 256-250	70 - 60*	2.0	1.0	0.0	0.0	0.0	0.0	0.0
SNTA 306-250	N/A	0.0	0.0	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 (from the chart above), whichever is greater, not to exceed 300 lbs.  
Example, EPA = 2.2, maximum fixture weight = 35 lbs. x 2.2 EPA = 77 lbs.

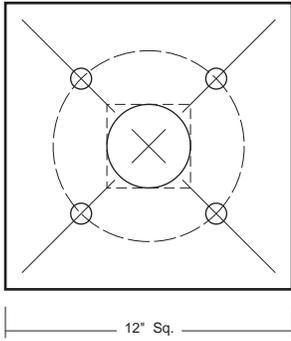
- Notes**
- Specifier is responsible for correct pole selection. For proper pole choice, the specifier must consider the total EPA of fixtures, banners, arms, and any other accessories attached to pole assembly.
  - U.S. Outdoor Lighting discourages the attachment of unauthorized accessories; any such attachments will void the manufacturer's warranty.
  - 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 2nd Mode (Aeolian) 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 installations have been known to fail due to destructive 2nd mode pole vibration.
  - Pole installations with a combined (fixtures, banners, flags, etc.) EPA of less than 2.0 ft<sup>2</sup> and 25 feet or taller are strongly recommended to be installed with a Vibration Damper.
  - Please consult with your Structural Engineer for site-specific requirements.
  - U.S. Outdoor Lighting offers a 2nd Mode Vibration Damper VBDS-M2 for purchase as a field-installable option.

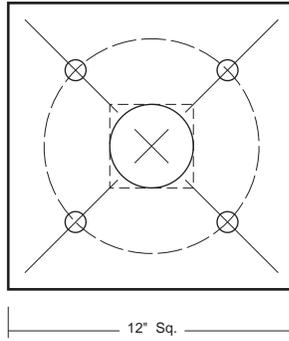
## ANCHOR BOLT TEMPLATES

For printable versions of Templates: click on the Template's name, otherwise go to <https://usalgt.com/downloads/templates.html>.

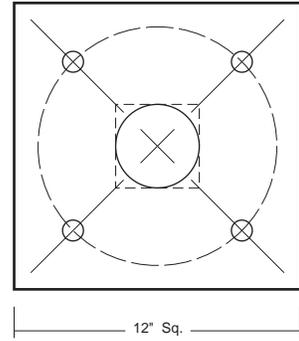
**US8**  
8" Bolt Circle



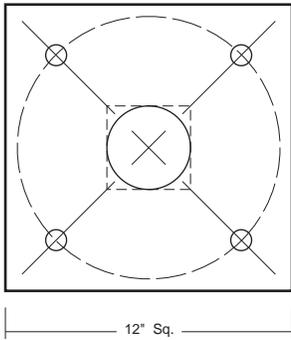
**US9**  
9" Bolt Circle



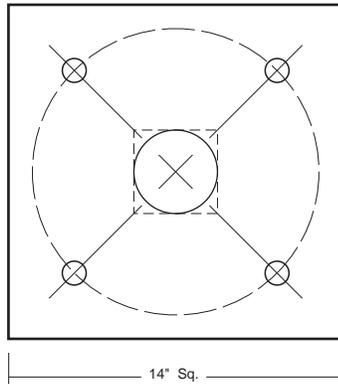
**US10**  
10" Bolt Circle



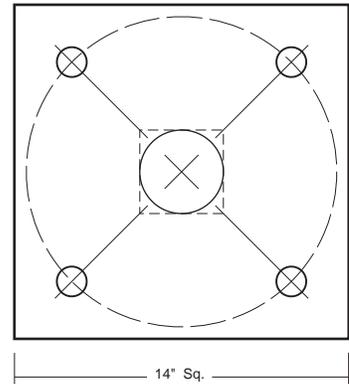
**US11**  
11" Bolt Circle



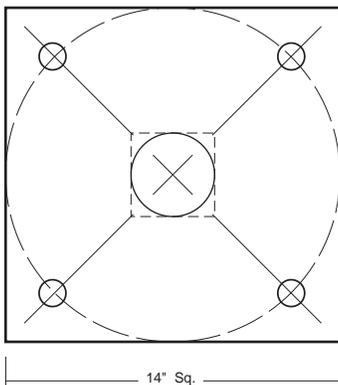
**US12**  
12" Bolt Circle



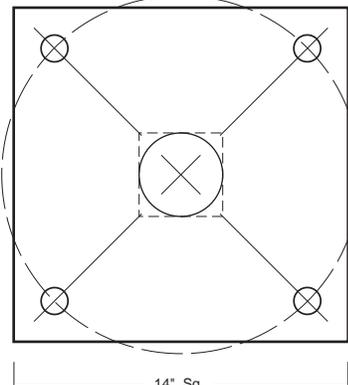
**US13**  
13" Bolt Circle



**US14**  
14" Bolt Circle



**US15**  
15" Bolt Circle



**US16**  
16" Bolt Circle

