

## SPECIFICATIONS

### Shaft

Spun tapered from 6063 alloy aluminum tubing. Heat treated to produce a T6 temper. Shaft is furnished with ground lugs located on cast aluminum base plate.

### 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

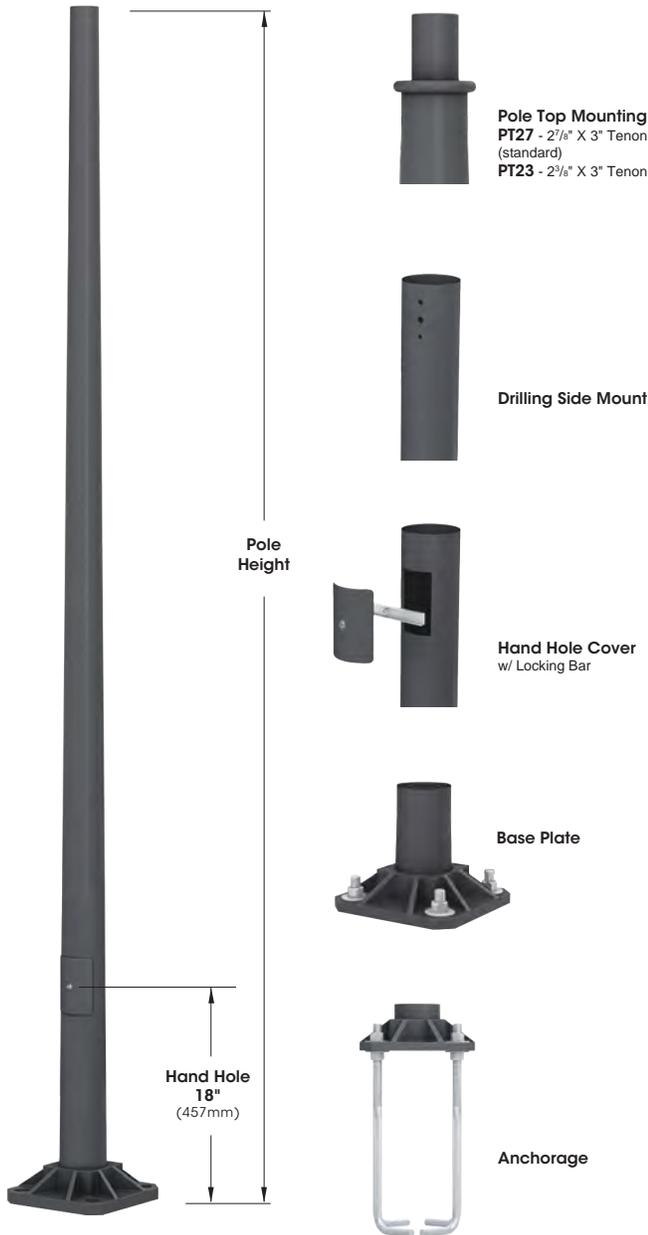
(4) anchor bolts fabricated from hot rolled steel bar. Minimum yield strength of 50,000 P.S.I. Bolts have "L" bend on one end and are threaded on the other. Bolts are fully galvanized and are furnished with two nuts and two washers.

### Base Cover

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

### Finish

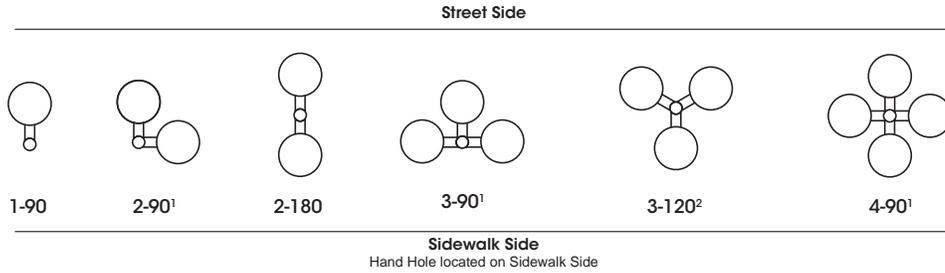
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.



Pole Model	Pole Dia.		Pole Height
	Bottom	Top	
RTA	4" - 8"	3" - 4"	14' - 25'



## DRILLING SIDE MOUNT

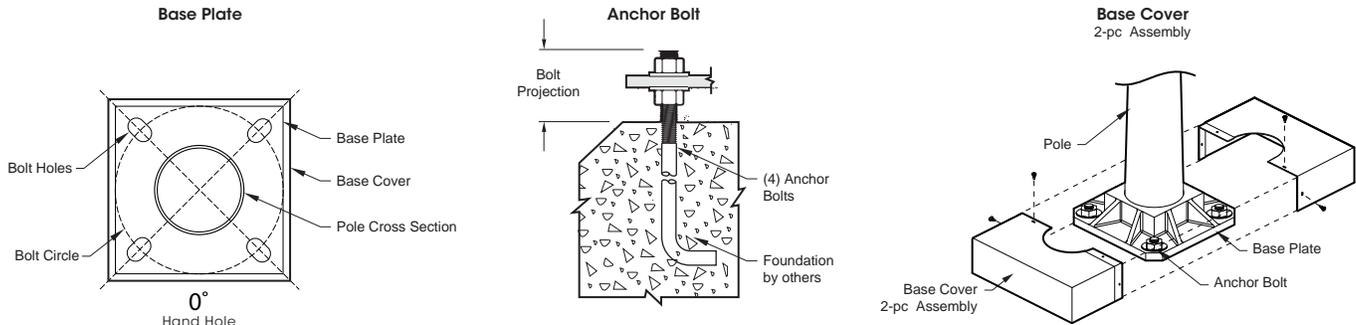


### Notes

- 1- Poles smaller than 3" Dia. at top, or Non Linear Drilling requires PT27 and T490 Adaptor. (Adaptor is rotatable)
- 2- Poles smaller than 3" Dia. at top, or Non Linear Drilling requires PT27 and T3120 Adaptor. (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>4</sup>	Template	Base Plate	Cover
	Ft	M	In	Cm	In	Cm									
RTA 1043-188	10	3.05	4.00	3.00	10.16	7.62	0.188	24	¾" x 18" x 3"	¾" - 3¾"	9½" - 10½"	10"	US10	¾" x 10" x 10"	5" x 12" x 12"
RTA 1243-188	12	3.66	4.00	3.00	10.16	7.62	0.188	29	¾" x 18" x 3"	¾" - 3¾"	9½" - 10½"	10"	US10	¾" x 10" x 10"	5" x 12" x 12"
RTA 1443-188	14	4.27	4.00	3.00	10.16	7.62	0.188	34	¾" x 18" x 3"	¾" - 3¾"	9½" - 10½"	10"	US10	¾" x 10" x 10"	5" x 12" x 12"
RTA 1253-188	12	3.66	5.00	3.00	12.70	7.62	0.188	37	1" x 36" x 4"	4" - 4½"	11½" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
RTA 1453-188	14	4.27	5.00	3.00	12.70	7.62	0.188	44	1" x 36" x 4"	4" - 4½"	11½" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
RTA 1553-188	15	4.57	5.00	3.00	12.70	7.62	0.188	47	1" x 36" x 4"	4" - 4½"	11½" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
RTA 1653-188	16	4.88	5.00	3.00	12.70	7.62	0.188	50	1" x 36" x 4"	4" - 4½"	11½" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
RTA 1853-188	18	5.49	5.00	3.00	12.70	7.62	0.188	56	1" x 36" x 4"	4" - 4½"	11½" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
RTA 2064-188	20	6.10	6.00	4.00	15.24	10.16	0.188	81	1" x 36" x 4"	4" - 4½"	12" - 13"	13"	US13	1" x 12" x 12"	5" x 14" x 14"
RTA 2264-188	22	6.71	6.00	4.00	15.24	10.16	0.188	89	1" x 36" x 4"	4" - 4½"	12" - 13"	13"	US13	1" x 12" x 12"	5" x 14" x 14"
RTA 2464-188	24	7.32	6.00	4.00	15.24	10.16	0.188	97	1" x 36" x 4"	4" - 4½"	12" - 13"	13"	US13	1" x 12" x 12"	5" x 14" x 14"
RTA 2564-188	25	7.62	6.00	4.00	15.24	10.16	0.188	136	1" x 36" x 4"	4" - 4½"	12" - 13"	13"	US13	1" x 12" x 12"	5" x 14" x 14"

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 ¾".

## ORDERING INFORMATION

Spec/Order Example: RTA1643-125/2-180/6005-S

Pole Model Number					Mounting	Finish	Options
	Pole Height	Pole Bottom	Pole Top	Wall Thickness	Tenon Mount	Standard Smooth Finish	
RTA 1043-188	10'	4.00"	3.00"	0.188	<b>PT27</b> 27/8" X 3" Tenon (Standard)	<b>9005-S</b> Black	<b>VBDS-M2</b> Vibration Dampener 2nd Mode Field Install
RTA 1243-188	12'	4.00"	3.00"	0.188	<b>PT23</b> 23/8" X 3" Tenon	<b>9003-S</b> White	
RTA 1443-188	14'	4.00"	3.00"	0.188	<b>PT276</b> 27/8" X 6" Tenon	<b>7004-S</b> Grey	
RTA 1253-188	12'	5.00"	3.00"	0.188	Other Tenon Mt _____	<b>8019-S</b> Dark Bronze	
RTA 1453-188	14'	5.00"	3.00"	0.188		<b>6005-S</b> Green	
RTA 1553-188	15'	5.00"	3.00"	0.188	<b>Drill Mount</b>	<b>Premium Finishes</b>	
RTA 1653-188	16'	5.00"	3.00"	0.188	<b>1-90</b> 	Custom Specify RAL# _____	
RTA 1853-188	18'	5.00"	3.00"	0.188	<b>2-180</b> 	<b>ANZ</b> Anodized	
RTA 2064-188	20'	6.00"	4.00"	0.188	<b>2-90</b> 		
RTA 2264-188	22'	6.00"	4.00"	0.188	<b>3-90</b> 		
RTA 2464-188	24'	6.00"	4.00"	0.188	<b>4-90</b> 		
RTA 2564-188	25'	6.00"	4.00"	0.188	<b>3-120</b> 		
	Other heights available Please consult factory				3-120 requires PT27 and T3120 Adapter		
					2-90, 3-90, 4-90 requires PT27 and T490 Adapter		
					[Drilling template must be provided by customer]		
							<b>Receptacle</b>
							<b>GFI</b> G.F.I. Receptacle w/ Cover
							<b>GFI-IU</b> G.F.I. Receptacle w/ In-Use Cover
							[Specify GFI location: Height and Direction] See Location Diagram below
							<b>T3120</b> 3 Way Adapter
							<b>T490</b> 4 Way Adapter
							[Drilling template must be provided by customer]
							<b>Coupling</b>
							<b>CPLN12</b> 1/2" Coupling
							<b>CPLN34</b> 3/4" Coupling
							<b>CPLN114</b> 1 1/4" Coupling
							<b>CPLN112</b> 1 1/2" Coupling
							<b>CPLN2</b> 2" Coupling
							[Specify Coupling location: Height and Direction] See Location Diagram below
							<b>Nipple</b>
							<b>NPLE12</b> 1/2" Nipple
							<b>NPLE34</b> 3/4" Nipple
							<b>NPLE114</b> 1 1/4" Nipple
							<b>NPLE112</b> 1 1/2" Nipple
							<b>NPLE2</b> 2" Nipple
							[Specify Coupling location: Height and Direction] See Location Diagram below

## ACCESSORIES



**GFI**  
Duplex GFI  
w/ Cover



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



**T3120**  
3 Way Adapter



**T490**  
4 Way Adapter

[Drilling template must be provided by customer]



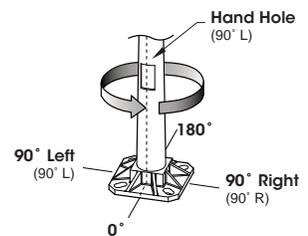
**CPLN**  
1/2", 3/4", 1 1/4", 1 1/2",  
or 2" Coupling



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

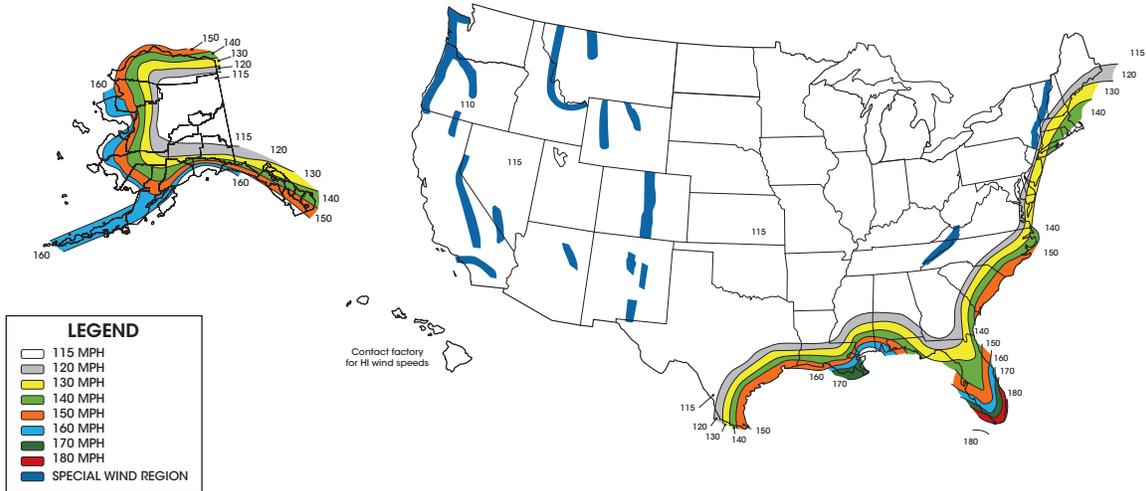
### Location Diagram

Please use this diagram to indicate placement location



Refer to the Accessories Section for other options

## WIND MAP



### EPA INFORMATION (ft<sup>2</sup>) (per AASHTO LRFDLTS-1 revised 2022)

Cat. No.	Weight Capacity Maximum (Lbs.)	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
RTA 1043-188	284 - 60*	8.1	6.5	5.1	4.3	3.3	2.9
RTA 1243-188	224 - 60*	6.4	4.8	3.7	2.8	2.2	1.8
RTA 1443-188	172 - 60*	4.9	3.4	2.5	1.8	1.2	1.1
RTA 1253-188	300 - 60*	11.0	8.7	7.0	5.8	5.0	4.4
RTA 1453-188	273 - 60*	8.8	6.7	5.4	4.6	3.9	3.1
RTA 1553-188	238 - 60*	7.8	5.9	4.6	4.0	3.2	2.6
RTA 1653-188	193 - 60*	6.8	4.9	4.0	3.3	2.7	2.0
RTA 1853-188	249 - 60*	5.5	4.0	2.8	2.2	1.8	1.4
RTA 2064-188	249 - 60*	7.1	5.8	4.7	3.9	3.0	2.5
RTA 2264-188	130 - 60*	3.7	2.6	1.7	0.7	0.0	0.0
RTA 2464-188	102 - 60*	2.9	1.5	0.6	0.0	0.0	0.0
RTA 2564-188	80 - 60*	2.4	1.1	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

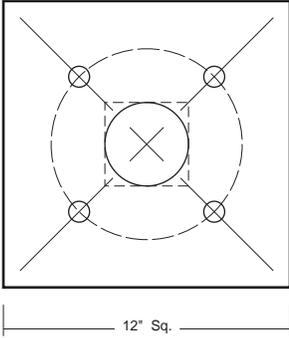
- Specifier is responsible for correct pole selection. For proper pole choice, the specifier must consider the total EPA of fixtures, banners, arms, and any other accessories attached to pole assembly.
- ALL EPAs are calculated for ground installations. For installations on bridges, buildings or other 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:

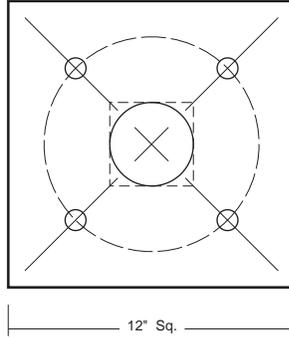
- We do not recommend the installation of poles without a fixture; such installation have been known to fail due to high pole vibrations. Replace with note 1 above
- Pole installations with a combined (fixtures, banners, flags, etc.) of less than 0.75 ft2 EPA and 25 feet or taller should be installed with a vibration dampener. Please consult with your site structural engineer.

## ANCHOR BOLT TEMPLATES

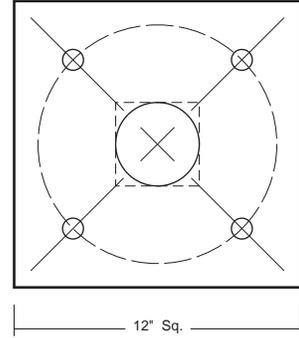
**BF8**  
8" Bolt Circle



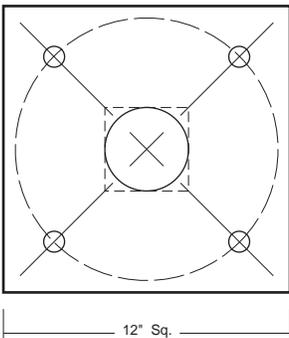
**BF9**  
9" Bolt Circle



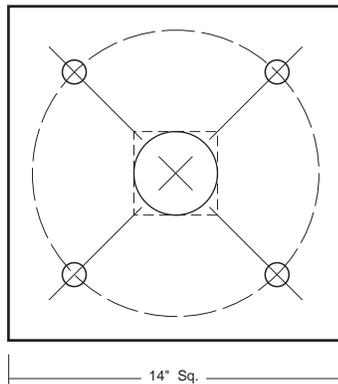
**BF10**  
10" Bolt Circle



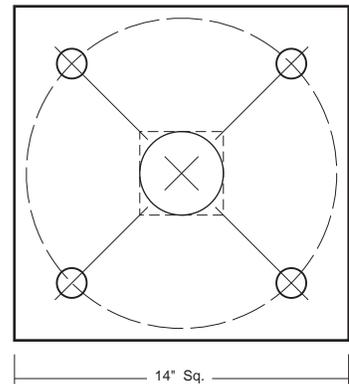
**BF11**  
11" Bolt Circle



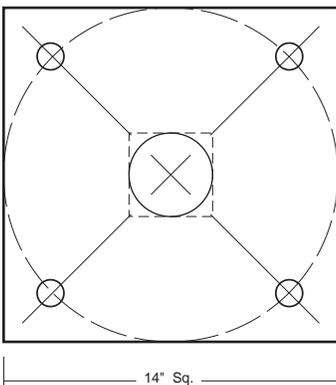
**BF12**  
12" Bolt Circle



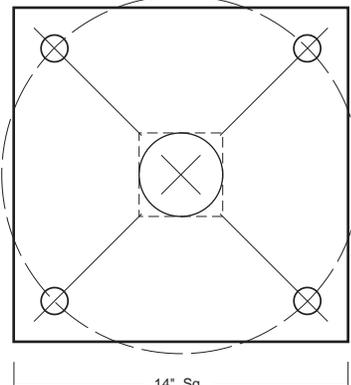
**BF13**  
13" Bolt Circle



**BF14**  
14" Bolt Circle



**BF15**  
15" Bolt Circle



**BF16**  
16" Bolt Circle

