

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, 2¼" x 4¼" 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

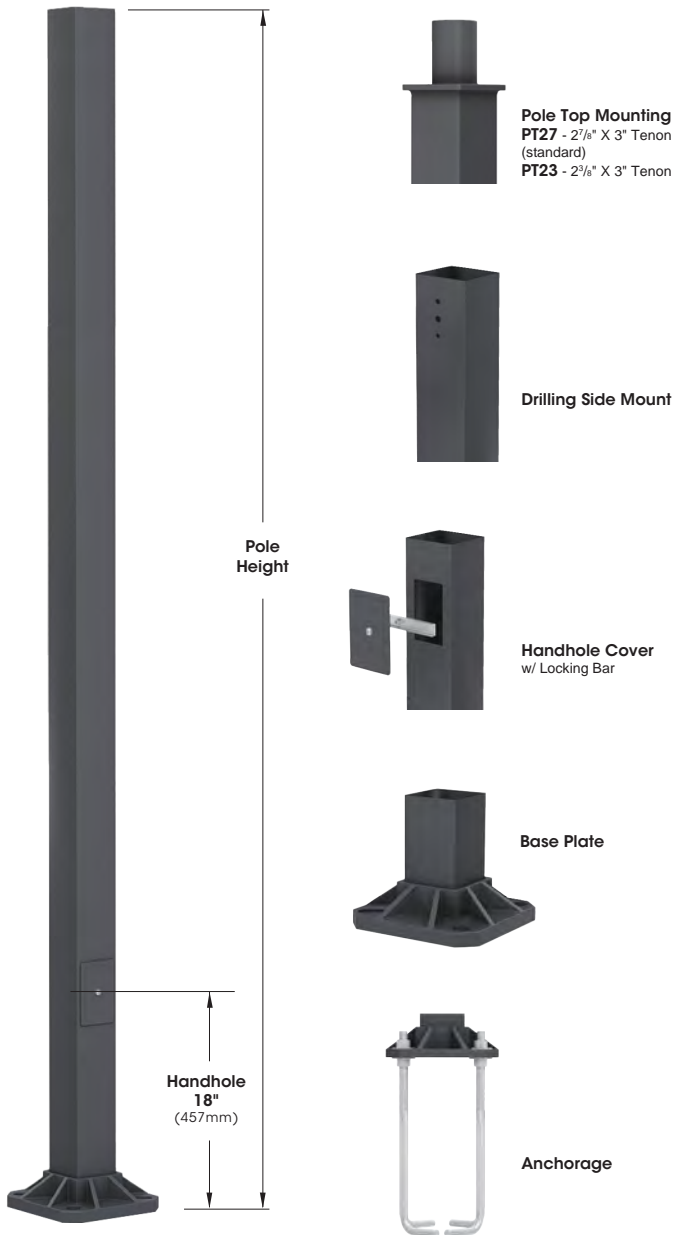
(4) anchor bolts fabricated from hot rolled steel bar. Minimum yield strength of 50,000 P.S.I. Bolts have "L" bend on one end and are threaded on the other. Bolts are fully galvanized and are furnished with two nuts and two washers.

Base Cover

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

Finish

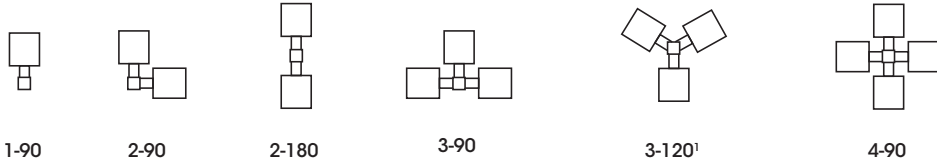
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.



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

DRILLING SIDE MOUNT

Street Side



Sidewalk Side

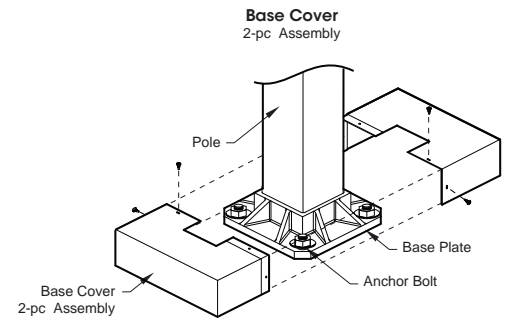
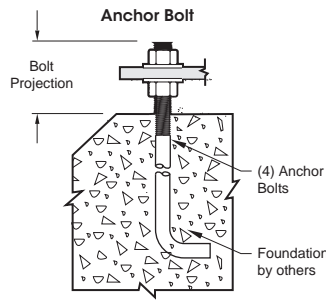
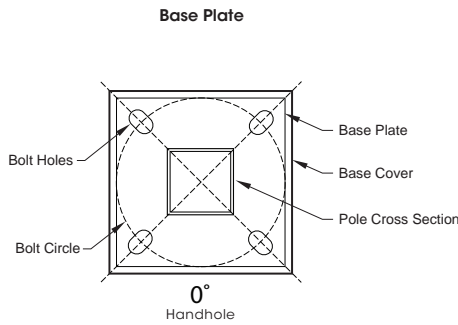
Hand Hole located on Sidewalk Side

Notes

1- Requires PT127 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 ^{2,3}	Bolt Circle Dia Range ¹	Bolt Circle Dia (In) (Rec.) ⁴	Template	Base Plate	Cover
	Ft	M	In	Cm	In	Cm									
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF10	3/4" x 10" x 10"	5" x 12" x 12"
BF-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"	BF12	1" x 11" x 11"	5" x 12" x 12"
BF-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"	BF12	1" x 11" x 11"	5" x 12" x 12"
BF-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"	BF12	1" x 11" x 11"	5" x 12" x 12"
BF-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"	BF12	1" x 11" x 11"	5" x 12" x 12"
BF-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"	BF12	1" x 11" x 11"	5" x 12" x 12"
BF-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"	BF12	1" x 11" x 11"	5" x 12" x 12"
BF-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"	BF13	1" x 11 1/2" x 11 1/2"	5" x 12" x 12"
BF-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"	BF13	1" x 11 1/2" x 11 1/2"	5" x 12" x 12"
BF-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"	BF13	1" x 11 1/2" x 11 1/2"	5" x 12" x 12"
BF-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"	BF13	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: BF-SNTA204-180/3-90/8019-S

Pole Model Number			Mounting	Finish	Options
			Tenon Mount	Standard Smooth Finish	
4" Pole Dia.	Pole Height	Wall Thickness	PT27 27/8" X 3" Tenon (Standard)	9005-S Black	VBDS-M2 Vibration Dampener 2nd Mode Field Install
			PT23 23/8" X 3" Tenon	9003-S White	
			PT276 27/8" X 6" Tenon	7004-S Grey	
			Other Tenon Mt _____	8019-S Dark Bronze	
				6005-S Green	
				Premium Finishes	
				Custom Specify RAL# _____	
				ANZ Anodized	
5" Pole Dia.			Drill Mount		Receptacle
	BF-SNTA 84 - 125 8'	0.125	1-90 		GFI G.F.I. Receptacle w/ Cover
	BF-SNTA 104 - 125 10'	0.125	2-180 		GFI-IU G.F.I. Receptacle w/ In-Use Cover
	BF-SNTA 124 - 125 12'	0.125	2-90 		[Specify GFI location: Height and Direction] See Location Diagram below
	BF-SNTA 144 - 125 14'	0.125	3-90 		T3120 3 Way Adapter [Drilling template must be provided by customer]
	BF-SNTA 164 - 125 16'	0.125	4-90 		
6" Pole Dia.			3-120 		Coupling
	BF-SNTA 125 - 125 12'	0.125			CPLN12 1/2" Coupling
	BF-SNTA 145 - 125 14'	0.125			CPLN34 3/4" Coupling
	BF-SNTA 165 - 125 16'	0.125			CPLN114 1 1/4" Coupling
	BF-SNTA 185 - 188 18'	0.188			CPLN112 1 1/2" Coupling
	BF-SNTA 205 - 188 20'	0.188			CPLN2 2" Coupling
			3-120 requires PT27 and T3120 Adapter		[Specify Coupling location: Height and Direction] See Location Diagram below
			[Drilling template must be provided by customer]		Nipple
					NPLE12 1/2" Nipple
					NPLE34 3/4" Nipple
					NPLE114 1 1/4" Nipple
					NPLE112 1 1/2" Nipple
					NPLE2 2" Nipple
					[Specify Coupling location: Height and Direction] See Location Diagram below

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]



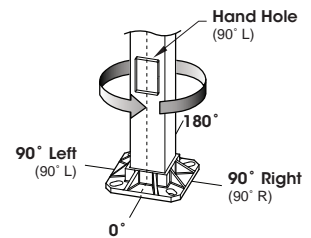
CPLN
1/2", 3/4", 1 1/4", 1 1/2",
or 2" Coupling



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

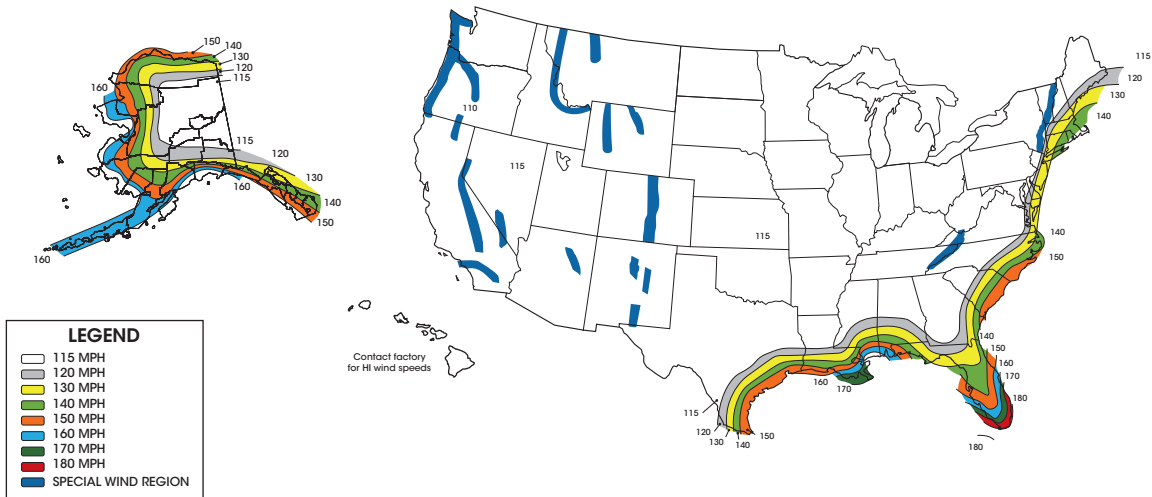
Location Diagram

Please use this diagram to indicate placement location



Refer to the Accessories Section for other options

WIND MAP



300 - 252*

EPA INFORMATION (ft²)

(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
BF-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
BF-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
BF-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
BF-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
BF-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
BF-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
BF-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
BF-SNTA 204-188	60	1.2	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BF-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
BF-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
BF-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
BF-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
BF-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
BF-SNTA 255-188	60	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BF-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
BF-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
BF-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
BF-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 (ft²)

(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
BF-SNTA 84-125	140 - 60*	4.0	3.3	2.5	2.2	1.9	1.8	1.6
BF-SNTA 104-125	119.7 - 60*	3.4	2.5	2.2	1.6	1.3	1.1	0.7
BF-SNTA 124-125	74.06 - 60*	2.1	1.8	1.1	0.7	0.4	0.2	0.0
BF-SNTA 144-125	60	1.4	0.7	0.6	0.2	0.0	0.0	0.0
BF-SNTA 164-125	60	0.4	0.0	0.0	0.0	0.0	0.0	0.0
BF-SNTA 164-188	60	1.5	1.2	0.6	0.2	0.0	0.0	0.0
BF-SNTA 184-188	60	0.7	0.4	0.0	0.0	0.0	0.0	0.0
BF-SNTA 204-188	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BF-SNTA 125-125	152.99 - 60*	4.4	3.4	2.4	1.9	1.3	0.9	0.5
BF-SNTA 145-125	100.8 - 60*	2.9	1.9	1.4	0.8	0.6	0.2	0.0
BF-SNTA 165-125	60	1.7	0.8	0.6	0.0	0.0	0.0	0.0
BF-SNTA 185-188	88.2 - 60*	2.5	1.7	0.8	0.3	0.0	0.0	0.0
BF-SNTA 205-188	60	1.5	0.7	0.2	0.0	0.0	0.0	0.0
BF-SNTA 255-188	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BF-SNTA 206-188	103.04 - 60*	2.9	1.9	1.0	0.3	0.0	0.0	0.0
BF-SNTA 206-250	185.85 - 60*	5.3	3.9	2.9	1.7	0.9	0.5	0.0
BF-SNTA 256-188	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BF-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 (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

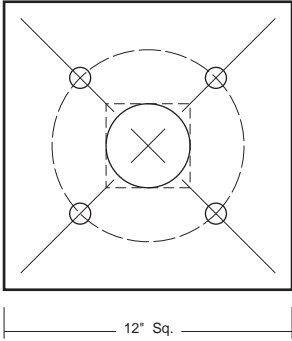
- Specifier is responsible for correct pole selection. For proper pole choice, the specifier must consider the total EPA of fixtures, banners, arms, and any other accessories attached to pole assembly.
- ALL EPAs are calculated for ground installations. For installations on bridges, buildings or other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

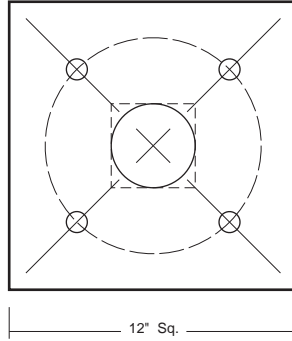
- We do not recommend the installation of poles without a fixture; such installations have been known to fail due to destructive 2nd mode pole vibration.
- Pole installations with a combined (fixtures, banners, flags, etc.) EPA of less than 2.0 ft² and 20 feet or taller are strongly recommended to be installed with a Vibration Dampener. Please consult with your Structural Engineer for site-specific requirements.
- Blackforce offers a 2nd Mode Vibration Dampener VBDS-M2 for purchase as a field-installable option.

ANCHOR BOLT TEMPLATES

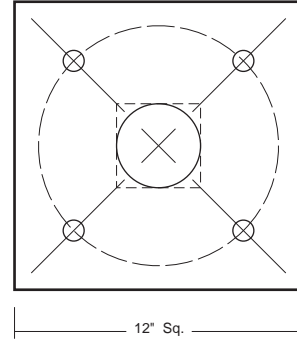
BF8
8" Bolt Circle



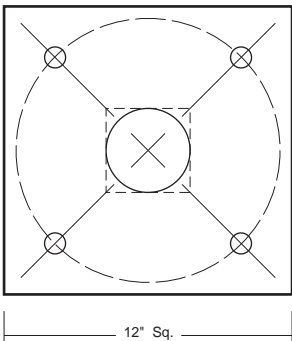
BF9
9" Bolt Circle



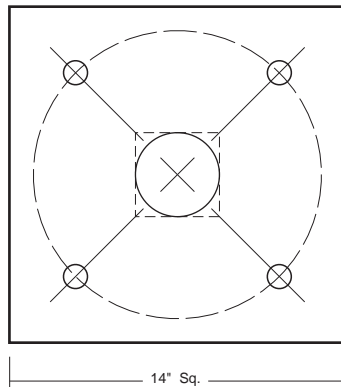
BF10
10" Bolt Circle



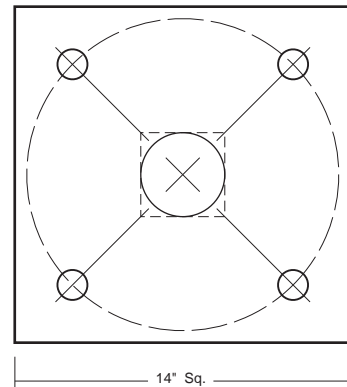
BF11
11" Bolt Circle



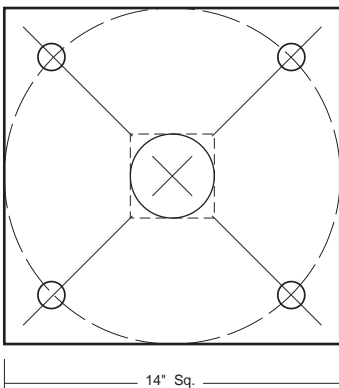
BF12
12" Bolt Circle



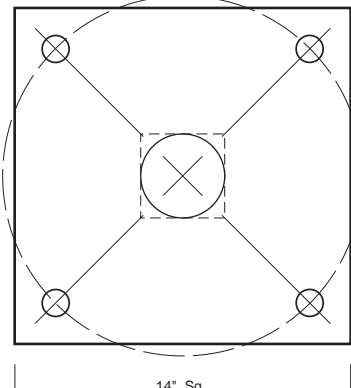
BF13
13" Bolt Circle



BF14
14" Bolt Circle



BF15
15" Bolt Circle



BF16
16" Bolt Circle

