

THE X POLES
EXPEDITED DELIVERY

○ Expedited Round Tapered Aluminum Pole

XRTA

Unique design which allows expedited, on-demand manufacturing and shipment of tapered Aluminum Poles to your desired length without alternation of the top and bottom pole diameters. Ensures that your desired Pole Length can be quickly specified and supplied with peace of mind that your Luminaire Couplings, Pole Attachments, and Base will all fit as designed.

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 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 for PT276 and PT23 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

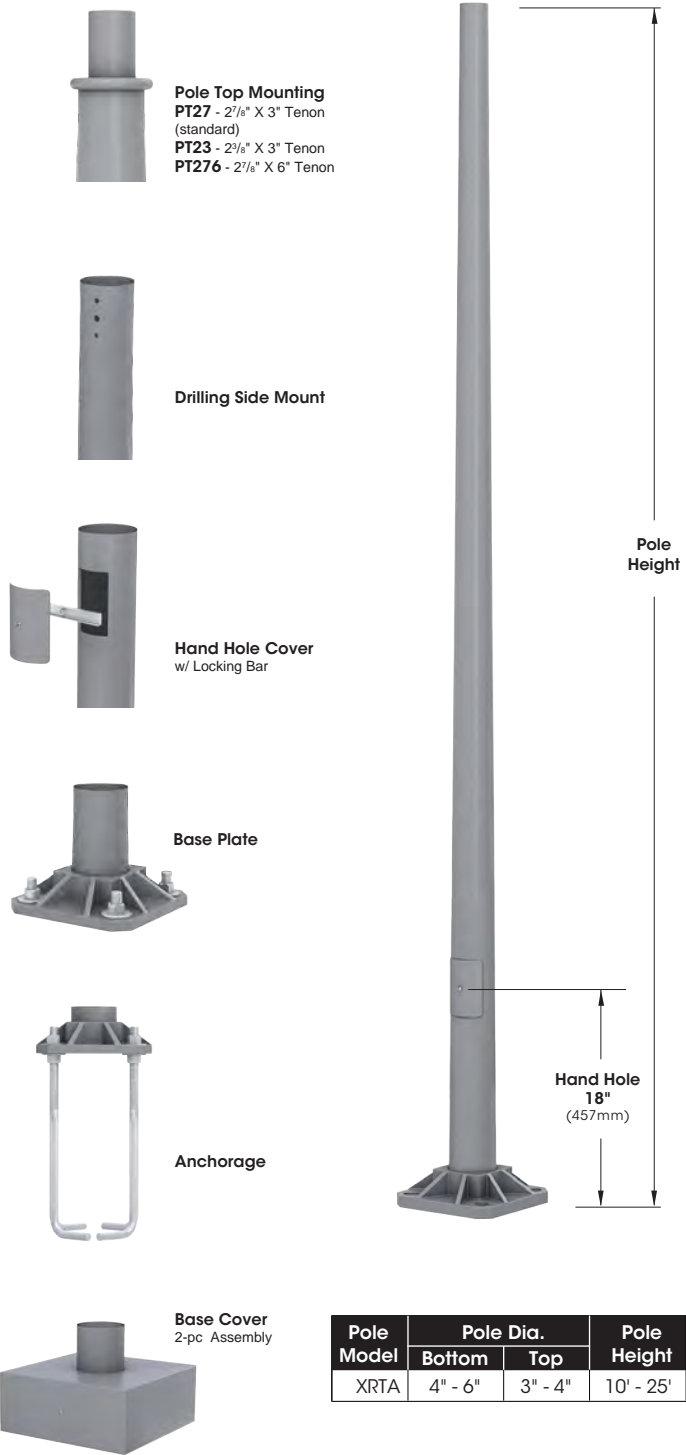
Fabricated from heavy wall aluminum construction. Two piece cover conceals base.

Finish

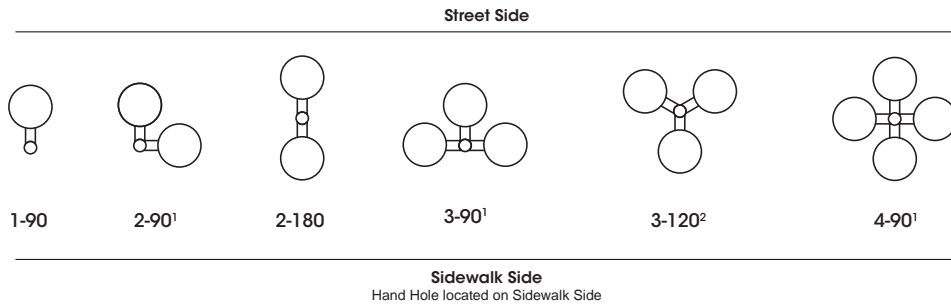
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

PROJECT NAME: _____

PROJECT TYPE: _____



DRILLING SIDE MOUNT



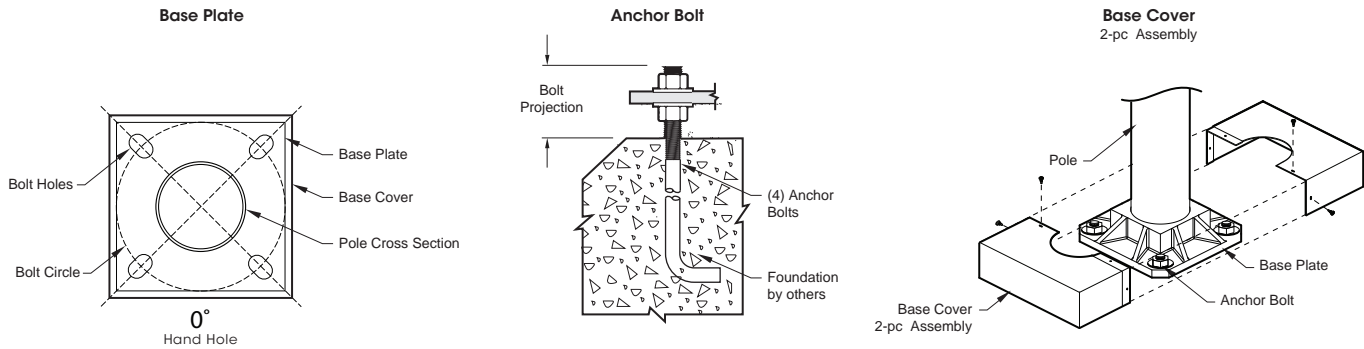
Notes

- 1- Poles smaller than 5" Dia. at top, or Non Linear Drilling requires PT27 and T490 Adapter. (Adapter is rotatable)
- 2- Poles smaller than 5" Dia. at top, or Non Linear Drilling requires PT27 and T3120 Adapter. (Adapter 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







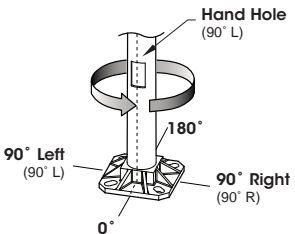


Catalog Number	POLE								ANCHOR BOLTS				ANCHOR PLATE		
	Height		Bottom - Top				Wall Thickness (In./Ga)	Weight (Lbs)	Bolt Size	Bolt Projection above grade ^{2,3}	Bolt Circle Dia Range ¹	Bolt Circle Dia (In) (Rec.) ¹	Template	Base Plate	Cover
	Ft	M	In	Cm	In	Cm									
XRTA 1043-188	10	3.05	4.00	3.00	10.16	7.62	0.188	24	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"
XRTA 1243-188	12	3.66	4.00	3.00	10.16	7.62	0.188	29	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"
XRTA 1443-188	14	4.27	4.00	3.00	10.16	7.62	0.188	34	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"
XRTA 1253-188	12	3.66	5.00	3.00	12.70	7.62	0.188	37	1" x 36" x 4"	4" - 4 1/2"	11 1/2" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
XRTA 1453-188	14	4.27	5.00	3.00	12.70	7.62	0.188	44	1" x 36" x 4"	4" - 4 1/2"	11 1/2" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
XRTA 1553-188	15	4.57	5.00	3.00	12.70	7.62	0.188	47	1" x 36" x 4"	4" - 4 1/2"	11 1/2" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
XRTA 1653-188	16	4.88	5.00	3.00	12.70	7.62	0.188	50	1" x 36" x 4"	4" - 4 1/2"	11 1/2" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
XRTA 1853-188	18	5.49	5.00	3.00	12.70	7.62	0.188	56	1" x 36" x 4"	4" - 4 1/2"	11 1/2" - 12"	12"	US12	1" x 11" x 11"	5" x 12" x 12"
XRTA 2064-188	20	6.10	6.00	4.00	15.24	10.16	0.188	81	1" x 36" x 4"	4" - 4 1/2"	12" - 13"	13"	US13	1 1/2" x 11 1/2" x 11 1/2"	5" x 12" x 12"
XRTA 2264-188	22	6.71	6.00	4.00	15.24	10.16	0.188	89	1" x 36" x 4"	4" - 4 1/2"	12" - 13"	13"	US13	1 1/2" x 11 1/2" x 11 1/2"	5" x 12" x 12"
XRTA 2464-188	24	7.32	6.00	4.00	15.24	10.16	0.188	97	1" x 36" x 4"	4" - 4 1/2"	12" - 13"	13"	US13	1 1/2" x 11 1/2" x 11 1/2"	5" x 12" x 12"
XRTA 2564-188	25	7.62	6.00	4.00	15.24	10.16	0.188	136	1" x 36" x 4"	4" - 4 1/2"	12" - 13"	13"	US13	1 1/2" 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: XRTA2064-188/1-90/6005-T

Pole Model Number					Mounting	Finish	Options
Pole Model Number					Mounting	Finish	Options
Pole Height	Pole Bottom	Pole Top	Wall Thickness				
<input type="checkbox"/> XRTA 1043-188	10'	4.00"	3.00"	0.188	Tenon Mount <input type="checkbox"/> 27/8" X 3" Tenon PT27 (Standard) <input type="checkbox"/> 23/8" X 3" Tenon PT23 <input type="checkbox"/> 27/8" X 6" Tenon PT276 <input type="checkbox"/> Other Tenon Mt _____ Drill Mount <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) Drilling template must be provided.	Standard Smooth Finish <input type="checkbox"/> Black 9005-S <input type="checkbox"/> White 9003-S <input type="checkbox"/> Grey 7004-S <input type="checkbox"/> Dark Bronze 8019-S <input type="checkbox"/> Green 6005-S Premium Finishes <input type="checkbox"/> Rust <input type="checkbox"/> Patina Copper PGC <input type="checkbox"/> Custom Specify RAL# _____ <input type="checkbox"/> Anodized AZ For Smooth Finish replace suffix "T" with suffix "T" Example: 9005-S See USALTG.COM for additional colors	<input type="checkbox"/> Vibration Dampener 2nd Mode Field Install VBDS-M2 Receptacle <input type="checkbox"/> G.F.I. Receptacle w/ Cover GFI <input type="checkbox"/> G.F.I. Receptacle w/ In-Use Cover GFI-U [Specify GFI location: Height and Direction] See Location Diagram below <input type="checkbox"/> 3 Way Adapter T3120 <input type="checkbox"/> 4 Way Adapter T490 Coupling <input type="checkbox"/> 1/2" Coupling CPLN12 <input type="checkbox"/> 3/4" Coupling CPLN34 <input type="checkbox"/> 1 1/4" Coupling CPLN114 <input type="checkbox"/> 1 1/2" Coupling CPLN112 <input type="checkbox"/> 2" Coupling CPLN2 [Specify Coupling location: Height and Direction] See Location Diagram below Nipple <input type="checkbox"/> 1/2" Nipple NPLE12 <input type="checkbox"/> 3/4" Nipple NPLE34 <input type="checkbox"/> 1 1/4" Nipple NPLE114 <input type="checkbox"/> 1 1/2" Nipple NPLE112 <input type="checkbox"/> 2" Nipple NPLE2 [Specify Coupling location: Height and Direction] See Location Diagram below Location Diagram Please use this diagram to indicate placement location  Refer to the Accessories Section for other options
<input type="checkbox"/> XRTA 1243-188	12'	4.00"	3.00"	0.188			
<input type="checkbox"/> XRTA 1443-188	14'	4.00"	3.00"	0.188			
<input type="checkbox"/> XRTA 1253-188	12'	5.00"	3.00"	0.188			
<input type="checkbox"/> XRTA 1453-188	14'	5.00"	3.00"	0.188			
<input type="checkbox"/> XRTA 1553-188	15'	5.00"	3.00"	0.188			
<input type="checkbox"/> XRTA 1653-188	16'	5.00"	3.00"	0.188			
<input type="checkbox"/> XRTA 1853-188	18'	5.00"	3.00"	0.188			
<input type="checkbox"/> XRTA 2064-188	20'	6.00"	4.00"	0.188			
<input type="checkbox"/> XRTA 2264-188	22'	6.00"	4.00"	0.188			
<input type="checkbox"/> XRTA 2464-188	24'	6.00"	4.00"	0.188			
<input type="checkbox"/> XRTA 2564-188	25'	6.00"	4.00"	0.188			

Other heights available
Please consult factory

OPTIONS



GFI
Duplex GFI w/ Cover



GFI-U
Duplex GFI w/ In-Use Cover



T3120
3 Way Adapter



T490
4 Way Adapter



FRBC
Flat Round Base Cover



RBC
Round Base Cover

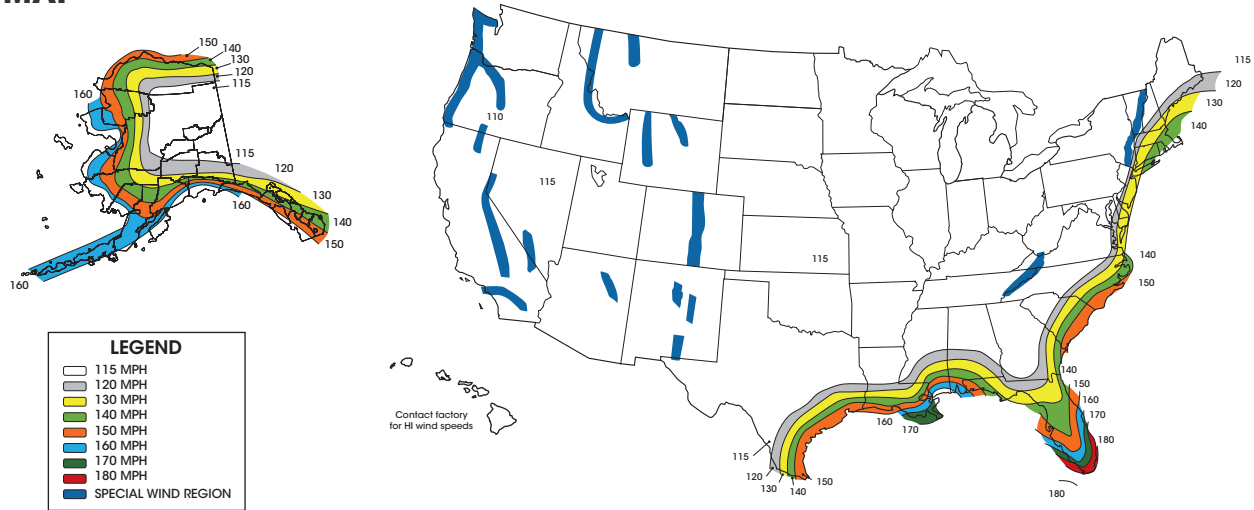


CPLN
1/2", 3/4", 1 1/4", 1 1/2", or 2" Coupling



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

WIND MAP



EPA INFORMATION (ft²)
(per AASHTO LRFDLTS-1 revised 2022)

Cat. No.	Weight Capacity Maximum (Lbs.)	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
XRTA 1043-188	284 - 60*	8.1	6.5	5.1	4.3	3.3	2.9
XRTA 1243-188	224 - 60*	6.4	4.8	3.7	2.8	2.2	1.8
XRTA 1443-188	172 - 60*	4.9	3.4	2.5	1.8	1.2	1.1
XRTA 1253-188	300 - 60*	11.0	8.7	7.0	5.8	5.0	4.4
XRTA 1453-188	273 - 60*	8.8	6.7	5.4	4.6	3.9	3.1
XRTA 1553-188	238 - 60*	7.8	5.9	4.6	4.0	3.2	2.6
XRTA 1653-188	193 - 60*	6.8	4.9	4.0	3.3	2.7	2.0
XRTA 1853-188	249 - 60*	5.5	4.0	2.8	2.2	1.8	1.4
XRTA 2064-188	249 - 60*	7.1	5.8	4.7	3.9	3.0	2.5
XRTA 2264-188	130 - 60*	3.7	2.6	1.7	0.7	0.0	0.0
XRTA 2464-188	102 - 60*	2.9	1.5	0.6	0.0	0.0	0.0
XRTA 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.
- U.S. Architectural 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 wind-induced vibrations are not included in wind velocity ratings or EPA ratings.
- Wind gust factors are considered in developing all EPA chart data.

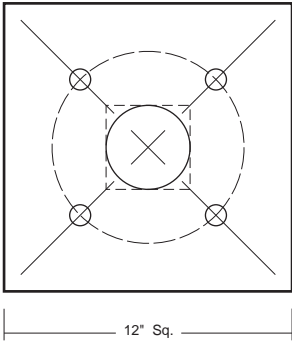
To mitigate 2nd Mode (Aeolian) Vibration please read the following Recommendations:

- 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.
- For pole installations with a combined (fixtures, banners, flags, etc.) of less than 0.75 ft2 EPA and 20 feet or taller, it is strongly recommended that you install a vibration dampener. Please consult with the factory for specific dampener to order.

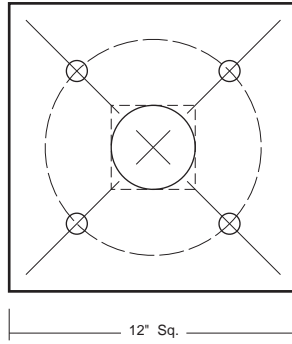
ANCHOR BOLT TEMPLATES

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

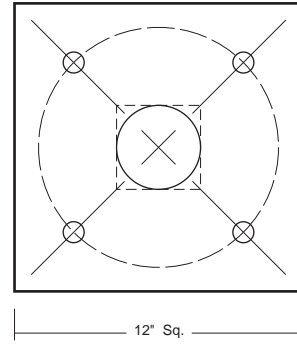
US8
8" Bolt Circle



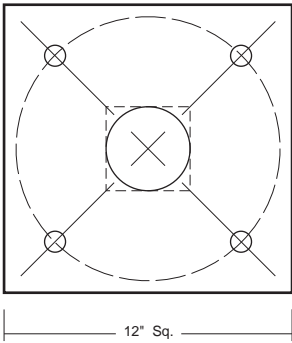
US9
9" Bolt Circle



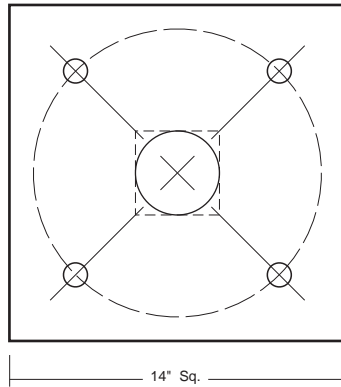
US10
10" Bolt Circle



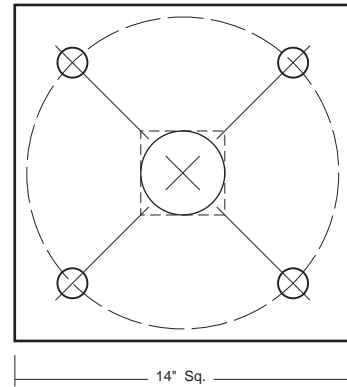
US11
11" Bolt Circle



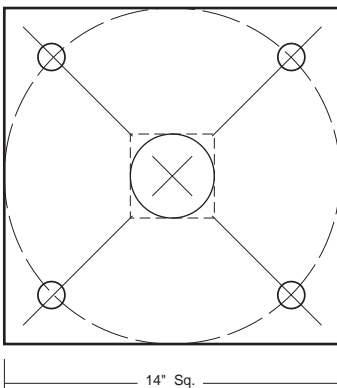
US12
12" Bolt Circle



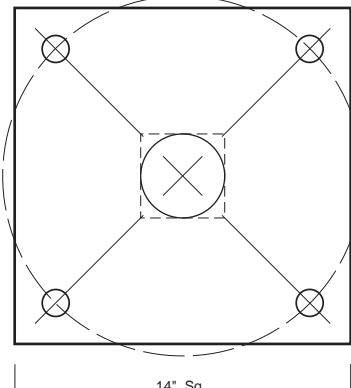
US13
13" Bolt Circle



US14
14" Bolt Circle



US15
15" Bolt Circle



US16
16" Bolt Circle

