



HINGED BASE ROUND TAPERED ALUMINUM POLE

HBRTA

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 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, 21/4" x 41/4" access opening. Sealed door is secured by a formed aluminum bar and a stainless steel, tamper proof screw.

Anchor Base & Cover

Uniquely designed, patented Hinge Base Pole Assembly was created to simplify the installation process. Hinged Anchor Base Assembly, with four heavy wall bosses to accept four stainless steel Countersink Bolts, for a strong and secure fit, is cast from 356 alloy aluminum. The complete Assembly is heated-treated to a T6 temper. (4) 3/4"-10 Bolts secure Base to Anchor Plate. Base Hinges utilize a 11/16" steel Pin, to insure easy and secure hinging mechanism for safe installation and maintenance. Steel Pin is easily removed by internal stainless Set Screw. Hinge Base is self-containing with the Base Top serving as an aesthetically pleasing decorative Cover.

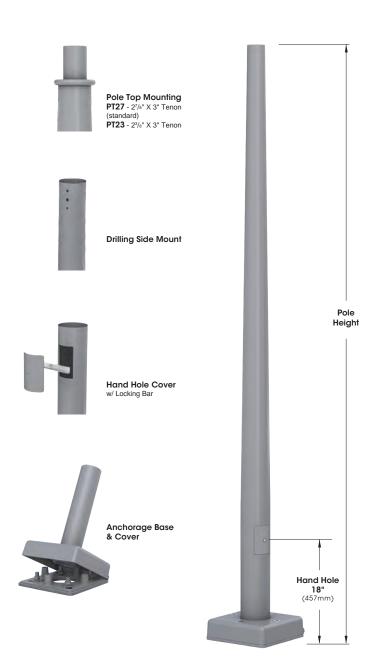
Anchorage

(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.

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 TYPE:



Pole	Pole	Pole			
Model	Bottom	Тор	Height		
HBRTA	4"	3"	10' - 16'		
HBRTA	5"	3"	12' - 18'		





DRILLING SIDE MOUNT

Street Side 2-180

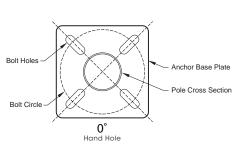
Sidewalk Side Hand Hole located on Sidewalk Side

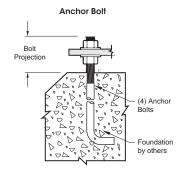
Notes
When drilling pattern from other manufacturer's fixture is required, add "DP" to drill specifications.
(Example: 2-180DP) Drilling template must be provided.

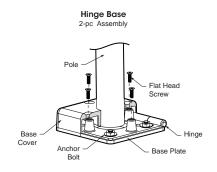
In the case of other manufacturer's drilling pattern, customer must provide drilling pattern.

BOLT CIRCLE









	HINGE BASE POLE								ANCHOR BOLTS				HINGE BASE ASSEMBLY			
Catalog	Height		Bottom - Top			Wall Thickness (ln/Ga) Weight (Lbs)		Bolt Size	Bolt Projection above grade ^{2,3}	Bolt Circle Dia Range ¹	Dia (ln)	Template	Hinge Anchor Plate	Hinge Base Asembly		
Number	Ft	М	lr	า	С	m	(, 5)					(Rec.) ¹				
HBRTA 1043-188	10	3.05	4.00	3.00	10.16	7.62	0.188	43	3/4" x 18" x 3"	31/4" - 33/4"	8" - 12"	10"	US10	3/4" x 12"x 12"	3½" x 12" x 12"	
HBRTA 1243-188	12	3.66	4.00	3.00	10.16	7.62	0.188	48	3/4" x 18" x 3"	31/4" - 33/4"	8" - 12"	10"	US10	3/4" x 12" x 12"	3½" x 12" x 12"	
HBRTA 1443-125	14	4.27	4.00	3.00	10.16	7.62	0.125	42	3/4" x 18" x 3"	3¼" - 3¾"	8" - 12"	10"	US10	3/4" x 12" x 12"	3½" x 12" x 12"	
HBRTA 1443-188	14	4.27	4.00	3.00	10.16	7.62	0.188	52	3/4" x 18" x 3"	3¼" - 3¾"	8" - 12"	10"	US10	3/4" x 12" x 12"	3½" x 12" x 12"	
HBRTA 1643-125	16	4.88	4.00	3.00	10.16	7.62	0.125	45	3/4" x 18" x 3"	3¼" - 3¾"	8" - 12"	10"	US10	3/4" x 12" x 12"	3½" x 12" x 12"	
HBRTA 1253-188	12	3.66	5.00	3.00	12.70	7.62	0.188	52	3/4" x 18" x 3"	31/4" - 33/4"	8" - 12"	12"	US12	3/4" x 12" x 12"	3½" x 12" x 12"	
HBRTA 1453-188	14	4.27	5.00	3.00	12.70	7.62	0.188	57	3/4" x 18" x 3"	31/4" - 33/4"	8" - 12"	12"	US12	3/4" x 12" x 12"	3½" x 12" x 12"	
HBRTA 1553-188	15	4.57	5.00	3.00	12.70	7.62	0.188	60	3/4" x 18" x 3"	31/4" - 33/4"	8" - 12"	12"	US12	3/4" x 12" x 12"	3½" x 12" x 12"	
HBRTA 1653-188	16	4.88	5.00	3.00	12.70	7.62	0.188	62	3/4" x 18" x 3"	3¼" - 3¾"	8" - 12"	12"	US12	3/4" x 12"x 12"	3½" x 12" x 12"	
HBRTA 1853-188	18	5.49	5.00	3.00	12.70	7.62	0.188	67	3/4" x 18" x 3"	31/4" - 33/4"	8" - 12"	12"	US12	3/4" x 12" x 12"	3½" 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 The maximum weight allowed on any assembly, including fixtures and options, is 100 lbs.



ORDERING INFORMATION

Spec/Order Example: HBRTA2064-188/1-90/RAL-6005-T

Pole Model Number					Mounting	Options				
	Pole M	lodel N	umber		Mounting	Finish	Options			
	Pole Height	Pole Bottom	Pole Top	Wall Thickness	Tenon Mount	Standard Smooth Finish	☐ Vibration Dampener 2nd Mode Field Install			
☐ HBRTA 1043-18	38 10'	4.00"	3.00"	0.188	2 ⁷ /8" X 3" Tenon PT27	☐ Black RAL-9005-S	VBDS-M2			
☐ HBRTA 1243-18	38 12'	4.00"	3.00"	0.188	(Standard)	☐ White	Receptacle			
☐ HBRTA 1443-12	25 14'	4.00"	3.00"	0.125	23/8" X 3" Tenon PT23	RAL-9003-S	G.F.I. Receptacle w/ Cover			
☐ HBRTA 1443-18	38 14'	4.00"	3.00"	0.188		☐ Grey RAL-7004-S	G.F.I. Receptacle w/ In-Use Cover			
☐ HBRTA 1643-12	25 16'	4.00"	3.00"	0.125	2 ⁷ / ₈ " X 6" Tenon PT276	☐ Dark Bronze	GFI-IU [Specify GFI location: Height and Direction] See Location Diagram below			
☐ HBRTA 1253-18	38 12'	5.00"	3.00"	0.188	Other Tenon Mt	RAL-8019-S	See Location Diagram below Coupling			
☐ HBRTA 1453-18		5.00"	3.00"	0.188	Drill Mount	Green RAL-6005-S	□ ½" Coupling □ ¾" Coupling			
☐ HBRTA 1553-18		5.00"	3.00"	0.188	□ 1-90		CPLN12 CPLN34			
☐ HBRTA 1653-18		5.00" 5.00"	3.00"	0.188 0.188		Premium Finishes	☐ 1¼" Coupling ☐ 1½" Coupling CPLN114 CPLN112			
☐ HBRIA 1033-10	10	5.00	3.00	0.100	□ 2-180	☐ Rust	2" Coupling CPLN2			
	Other heights available Please consult factory Poles 4" Dis. bottom not to exceed 16 feet Poles 5" Dia. bottoms not to exceed 18 feet				When Drilling Pattern from other manufacturer is required, add "DP" to drill specifications (Example: 2180DP) Drilling template must be provided.	Patina Copper PC	[Specify Coupling location: Height and Direction] See Location Diagram below			
						☐ Custom	Nipple			
						Specify RAL#	☐ ½" Nipple ☐ ¾" Nipple NPLE12 NPLE34			
						Anodized AZ	☐ 1½" Nipple ☐ 1½" Nipple NPLE114 NPLE112			
						For Smooth Finish replace suffix "T" with suffix "T" Example: RAL-9005-S	2" Nipple NPLE2			
						See USALTG.COM for additional colors	[Specify Coupling location: Height and Direction] See Location Diagram below			
					Location Diagram Please use this diagram to indicate placement location					
							Hand Hole (0° Zero degrees) 90° Right (90° R) 0°			
							Refer to the Accessories Section for other options			

OPTIONS



GFI Duplex GFI w/ Cover



GFI-IU Duplex GFI w/ In-Use Cover



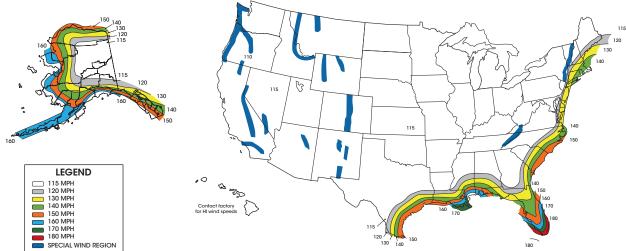
CPLN ½", ¾", 1¼', 1½", or 2" Coupling



NPLE ½", ¾", 1½', 1½", or 2" Nipple



WIND MAP



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
HBRTA 1043-188	100 - 73.5*	9.8	7.8	7.0	6.1	5.0	4.0	3.3	2.8	2.6	2.1
HBRTA 1243-188	100 - 60*	7.4	5.6	5.0	4.5	3.4	2.6	2.2	1.7	1.6	1.3
HBRTA 1443-125	100 - 60*	3.0	2.1	1.7	1.3	0.8	0.4	0.0	0.0	0.0	0.0
HBRTA 1443-188	100 - 60*	5.5	4.2	3.5	3.0	2.2	1.5	1.2	1.0	0.8	0.6
HBRTA 1643-125	100 - 60*	1.9	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
HBRTA 1253-188	100 - 100*	12.9	10.4	9.3	8.4	6.9	6.0	5.0	4.3	3.9	3.3
HBRTA 1453-188	100 - 87.5*	10.2	8.1	7.0	6.3	5.2	4.5	3.7	3.3	2.7	2.5
HBRTA 1553-188	100 - 73.5*	9.1	7.0	6.1	5.6	4.5	3.9	3.3	2.8	2.4	2.1
HBRTA 1653-188	100 - 60*	7.6	5.9	5.0	4.6	3.6	3.0	2.5	2.1	1.9	1.5
HBRTA 1853-188	100 - 60*	6.1	4.4	3.9	3.4	2.8	2.1	1.7	1.5	12	1.1

EPA INFORMATION (ff2) (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
HBRTA 1043-188	100 - 66.5*	5.4	4.5	3.8	3.1	2.6	2.4	1.9
HBRTA 1243-188	100 - 60*	3.6	2.9	2.4	2.0	1.5	1.4	1.0
HBRTA 1443-125	100 - 60*	2.0	1.6	1.3	1.0	0.8	0.6	0.5
HBRTA 1443-188	100 - 60*	1.0	0.7	0.4	0.0	0.0	0.0	0.0
HBRTA 1643-125	100 - 100*	7.7	6.6	5.6	4.7	4.1	3.7	3.1
HBRTA 1253-188	100 - 66.5*	5.7	4.9	4.2	3.5	3.1	2.5	1.9
HBRTA 1453-188	100 - 60*	5.1	4.3	3.6	3.0	2.6	2.0	1.7
HBRTA 1553-188	100 - 60*	4.0	3.3	2.7	2.2	1.9	1.7	1.3
HBRTA 1653-188	100 - 60*	3.0	2.3	1.6	1.3	1.1	0.9	0.7
HBRTA 1853-188	100 - 60*	3.0	2.3	1.6	1.3	1.1	09	0.7

^{*} 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 100 lbs. Example, EPA = 2.2, weight = 35 lbs. x 2.2 EPA = 77 lbs.

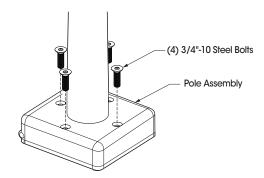
- Specifier is responsible for correct pole selection. For proper pole choice, the specifier must consider the total EPA of fixtures, banners, arms, and any other accessories attached to pole assembly.
- · U.S. Architectural discourages the attachment of unauthorized accessories; any such attachments 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:

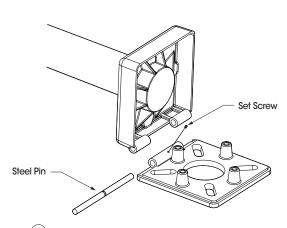
 We do not recommend the installation of poles without a fixture; such installations have been known to fail due to destructive 2nd mode pole vibration.
- Pole installations with a combined (fixtures, banners, flags, etc.) of less than 0.75 ft2 EPA and 20 feet or taller will be provided with a vibration dampener.



INSTALLATION

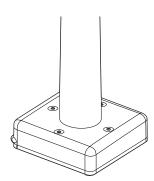


(1) Remove four 3/4"-10 Steel Bolts from Pole Assembly.



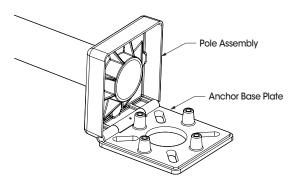
(3) **Optional For Easier Installation**

> Loosen Set Screw and slide Steel Pin out, save for later use. (NOTE: Anchor Base Plate/Pole Assembly can also be installed w/out the removal of Steel Pin.)

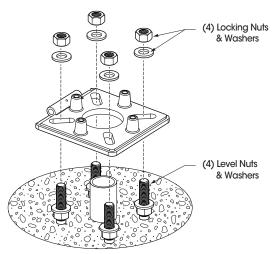


(5) Attach Pole Assembly back on to Anchor Base Plate. If Steel Pin was removed, restore to original position and lock into place with Set Screw provided.

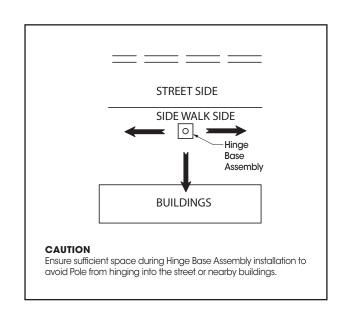
> Secure Pole Assembly to Anchor Base Plate by reinstalling four 3/4"-10 Steel Bolts.



Unhinge Pole Assembly from Anchor Base Plate.



Install Anchor Base Plate following installation instructions (available upon request)

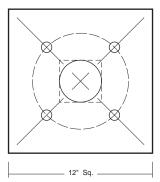




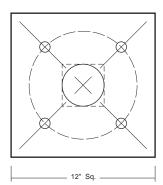
ANCHOR BOLT TEMPLATES

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

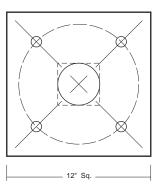
US8 8" Bolt Circle



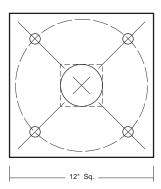
US9 9" Bolt Circle



US10 10" Bolt Circle



US11 11" Bolt Circle



US12 12" Bolt Circle

