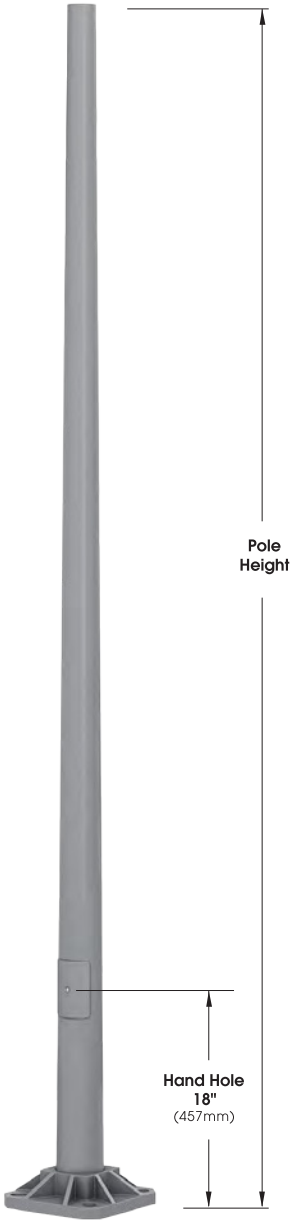
ROUND TAPERED ALUMINUM
RTA



Pole Top Mounting
PT27 - 2⅞" X 3" Tenon

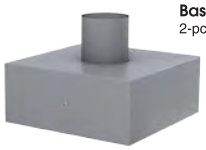
PT23 - 2⅜" X 3" Tenon (standard)

Drilling Side Mount

Hand Hole Cover
w/ Locking Bar

Base Plate

Anchorage



Base Cover
2-pc Assembly

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

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
tandard pole top mount is a tenon, with options available in the Mounting column. An aluminum pipe pole top mount is available as an option. For other pole top configurations, please consult the 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.

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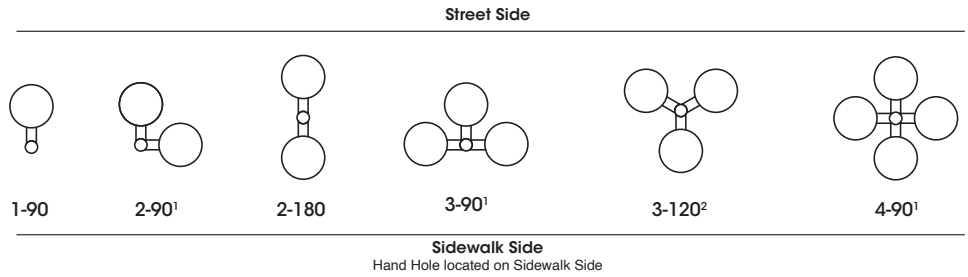
DRILLING SIDE MOUNT



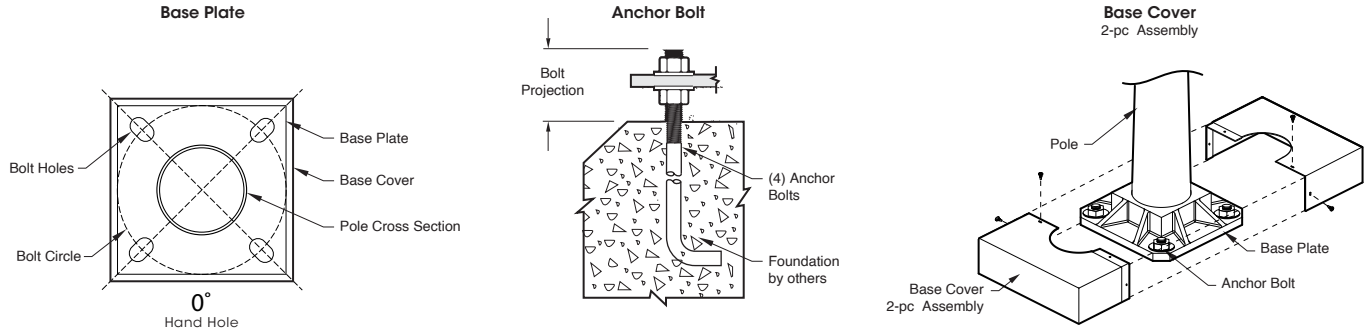
Notes

1- Poles smaller than 3" Dia. at top, or Non Linear Drilling requires PT27 and T490 Adapter. (Adaptor is rotatable)

2- Poles smaller than 3" Dia. at top, or Non Linear Drilling requires PT27 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.)[1]	Template	Base Plate	Cover
	Ft	M	In		Cm										
HL-RTA 1443-125	14	4.27	4.00	3.00	10.16	7.62	0.125	31	¾" x 18" x 3"	3¼" - 3¾"	9½" - 10½"	10"	HL10	¾" x 10" x 10"	5" x 12" x 12"
HL-RTA 1643-125	16	4.88	4.00	3.00	10.16	7.62	0.125	34	¾" x 18" x 3"	3¼" - 3¾"	9½" - 10½"	10"	HL10	¾" x 10" x 10"	5" x 12" x 12"
HL-RTA 1853-188	18	5.49	5.00	3.00	12.70	7.62	0.188	56	1" x 36" x 4"	4" - 4½"	11" - 12"	12"	HL12	1" x 11" x 11"	5" x 12" x 12"
HL-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"	HL13	1" x 12" x 12"	5" x 14" x 14"
HL-RTA 2574-188	25	7.62	7.00	4.00	17.78	10.16	0.188	106	1" x 36" x 4"	4" - 4½"	11"-13"	13"	HL13	1" x 13" x 13"	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".

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ORDERING INFORMATION

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

Pole Model Number

	Pole Height	Pole Bottom	Pole Top	Wall Thickness
HL-RTA 1443-125	14'	4.00"	3.00"	0.125
HL-RTA 1643-125	16'	4.00"	3.00"	0.125
HL-RTA 1853-188	18'	5.00"	3.00"	0.188
HL-RTA 2064-188	20'	6.00"	4.00"	0.188
HL-RTA 2574-188	25'	7.00"	4.00"	0.188

Other heights available
Please consult factory

Mounting

Tenon Mount

PT27	$2\frac{7}{8}$" X 3" Tenon
PT23	$2\frac{3}{8}$" X 3" Tenon (Standard)
PT276	$2\frac{7}{8}$" X 6" Tenon
Other Tenon Mt	_____

Drill Mount

1-90	
2-180	
2-90	
3-90	
4-90	
3-120	

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]

Finish

Standard
Smooth Finish

9005-S	Black
9003-S	White
7004-S	Grey
8019-S	Dark Bronze
6005-S	Green

Premium Finishes

Custom Specify RAL#	_____
GLV	Galvanized

Options

VBDS-M2	Vibration Dampener 2nd Mode Field Install

Receptacle

GFI	G.F.I. Receptacle w/ Cover
GFI-IU	G.F.I. Receptacle w/ In-Use Cover

[Specify GFI location: Height and Direction]
See Location Diagram below

T3120	3 Way Adapter
T490	4 Way Adapter

[Drilling template must be provided by customer]

Coupling

CPLN12	½" Coupling
CPLN34	¾" Coupling
CPLN114	1¼" Coupling
CPLN112	1½" Coupling
CPLN2	2" Coupling

[**Specify Coupling location**: Height and Direction]
See Location Diagram below

Nipple

NPLE12	½" Nipple
NPLE34	¾" Nipple
NPLE114	1¼" Nipple
NPLE112	1½" Nipple
NPLE2	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

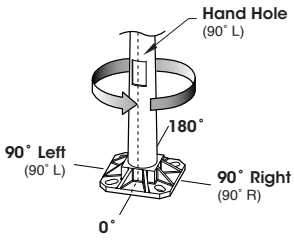
(Drilling template must be provided by customer

CPLN
½", ¾", 1¼', 1½",
or 2" Coupling

NPLE
½", ¾", 1¼', 1½",
or 2" Nipple

Location Diagram

Please use this diagram to indicate placement location



Refer to the Accessories Section for other options

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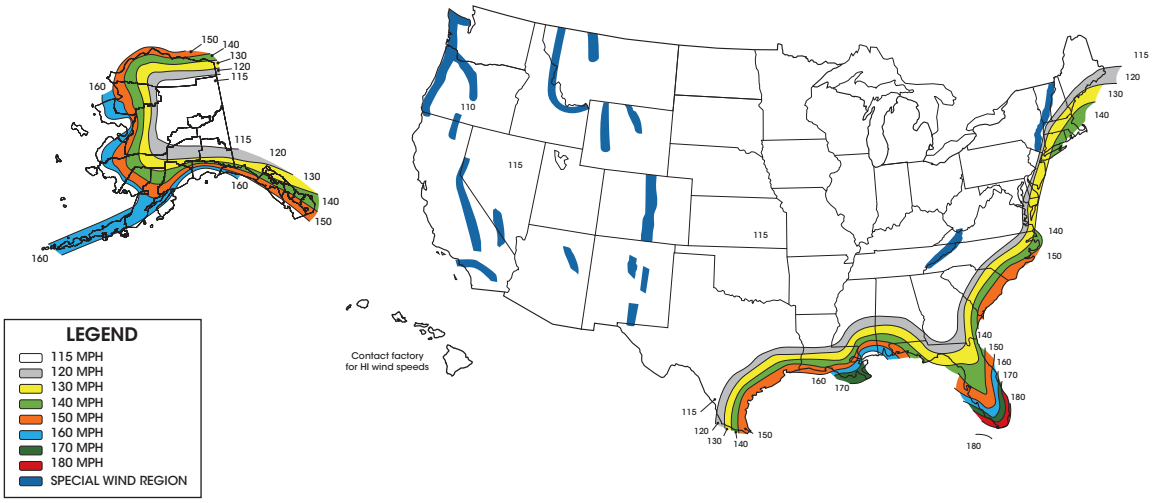
WIND MAP



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
HL-RTA 1443-125	214 - 60*	6.1	4.6	4.0	3.5	2.6	1.9	1.3	1.0	0.8	0.7
HL-RTA 1643-125	143.5 - 60*	4.1	3.1	2.6	2.2	2.5	0.9	0.7	0.4	0.0	0.0
HL-RTA 1853-188	283.5 - 98*	8.1	7.1	6.7	6.2	5.7	4.8	4.2	3.7	3.2	2.8
HL-RTA 2064-188	300 - 136.5*	14.0	12.4	11.1	10.1	8.5	7.2	6.0	5.3	4.6	3.9
HL-RTA 2574-188	300 - 70*	14.3	11.7	10.8	9.9	8.2	7.1	5.0	3.7	2.5	2.0

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
HL-RTA 1443-125	115.5 - 60*	3.3	2.4	1.8	1.2	0.9	0.7	0.6
HL-RTA 1643-125	73.5 - 60*	2.1	1.4	0.8	0.7	0.4	0.0	0.0
HL-RTA 1853-188	206.5 - 87.5*	5.9	5.0	4.5	3.8	3.5	2.9	2.5
HL-RTA 2064-188	300 - 119*	9.4	7.7	6.7	5.4	4.8	4.1	3.4
HL-RTA 2574-188	300 - 63*	9.2	7.7	6.8	4.4	3.5	2.2	1.8

*** 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.

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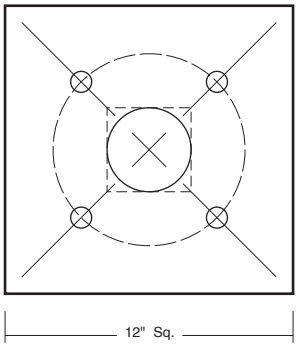
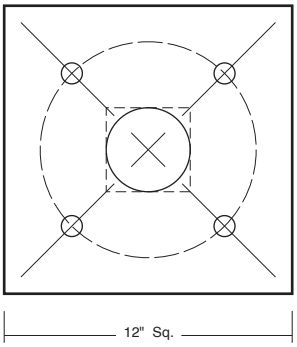
ANCHOR BOLT TEMPLATES

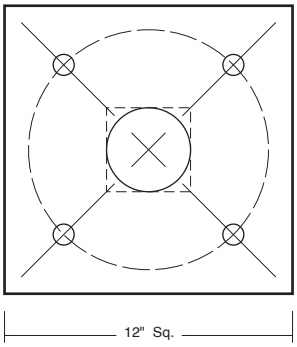
HL8
8" Bolt Circle



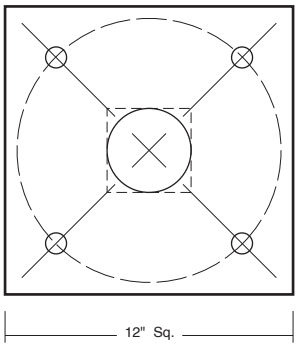
HL9
9" Bolt Circle



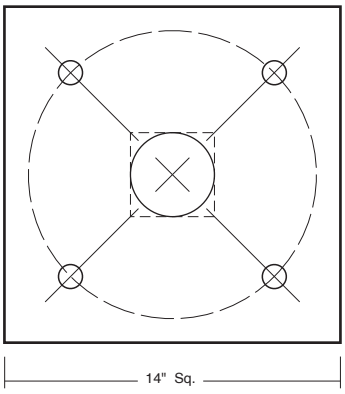
HL10
10" Bolt Circle



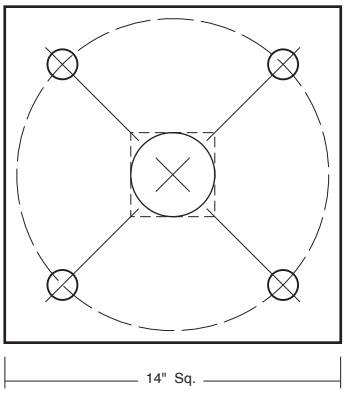
HL11
11" Bolt Circle



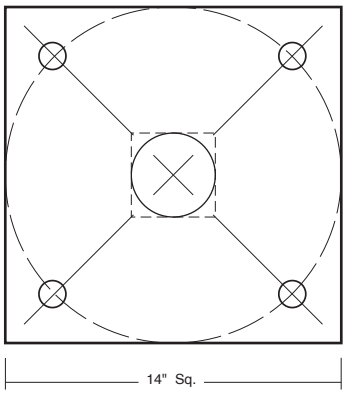
HL12
12" Bolt Circle



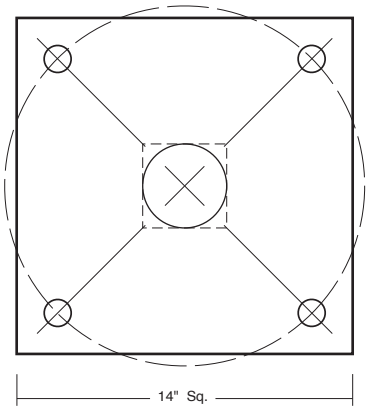
HL13
13" Bolt Circle



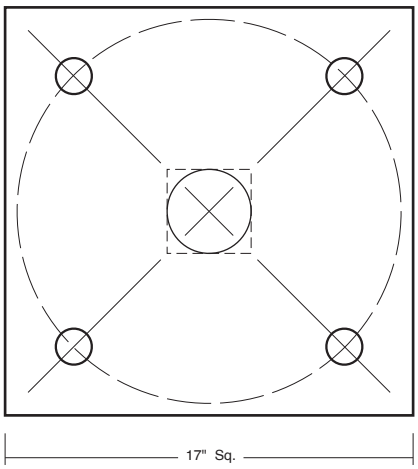
HL14
14" Bolt Circle



HL15
15" Bolt Circle



HL16
16" Bolt Circle



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