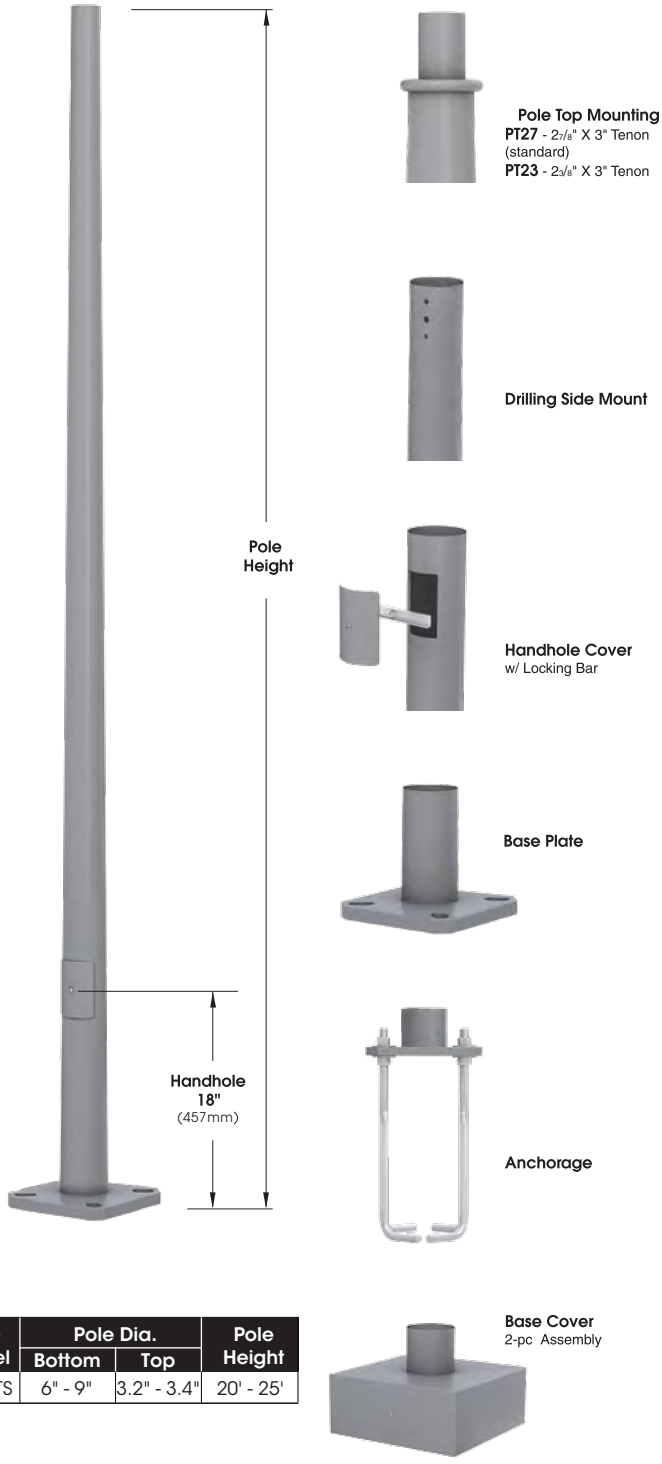
HAVELLS

ROUND TAPE STEEL
BF-RTS



Pole Model	Pole Dia.		Pole Height
	Bottom	Top	
HL-RTS	6" - 9"	3.2" - 3.4"	20' - 25'

SPECIFICATIONS

Shaft
Round, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501-68 specifications. Meets or exceeds minimum yield strength of 46,000 P.S.I. Wall thickness 11 GA. (.120 wall) or 7 GA. (.180 wall) as specified. Shaft is furnished with ground lug located inside pole on wall opposite hand hole.

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.) steel pipe – tenon options available for pole tops please see Mounting column. For other pole top configurations please consult factory.

Hand Hole Cover
Steel Poles 15 feet and above - Supplied with reinforced steel 2 5/8" x 4 5/8" access opening. Hand Hole provided with rectangular 3"x5" stamped heavy gauge aluminum material, Sealed door is secured by a formed aluminum bar and a stainless steel, tamper proof screw.

Poles under 15 feet - Rectangular 3"x5" stamped heavy gauge aluminum material, 2¼" x 4¼" access opening. Sealed door is secured by a formed aluminum bar and a stainless steel, tamper proof screw.

Base Plate
Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 P.S.I. Base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1" flexibility on either side of bolt circle centerline.

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 gauge quality carbon steel. 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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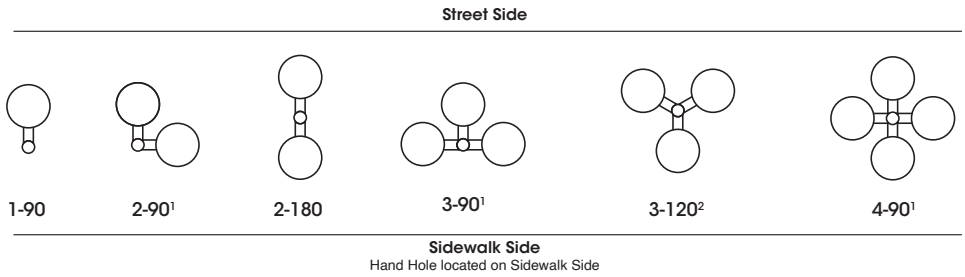
DRILLING SIDE MOUNT



Notes

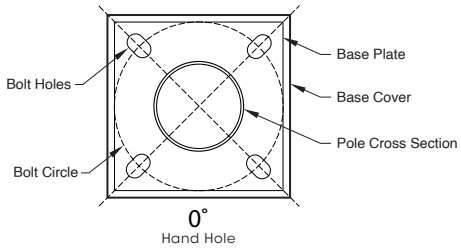
1- Poles smaller than 3° Dia. at top, or Non Linear Drilling requires PT27 and T490 Adapter. (Adaptor is rotatable)

2- Poles smaller than 3° Dia. at top, or Non Linear Drilling requires PT27 and T3120 Adapter. (Adaptor is rotatable)

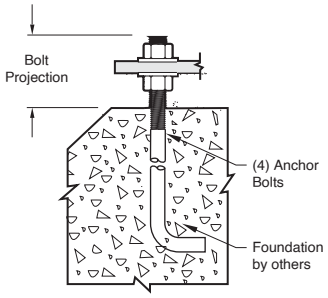
[Drilling template must be provided by customer]

BOLT CIRCLE

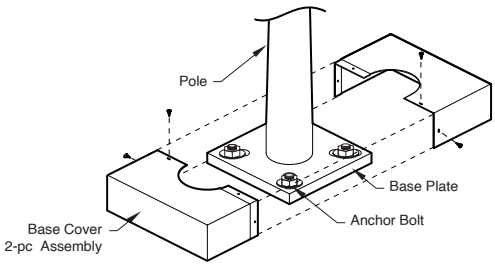
Base Plate



Anchor Bolt



Base Cover
2-pc Assembly



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-RTS 20-11	20	6.10	6.00	3.20	15.24	8.13	11	154	1" x 36" x 4"	4" - 4½"	10½" - 12½"	12"	HL12	1" x 11½" x 11½"	5" x 12" x 12"
HL-RTS 25-11	25	7.62	7.00	3.50	17.78	8.89	11	189	1" x 36" x 4"	4" - 4½"	10½" - 12½"	12"	HL12	1" x 11½" x 11½"	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.

ORDERING INFORMATION

Spec/Order Example: HL-RTA1643-125/2-180/7004-S

Pole Model Number

	Pole Height	Pole Bottom	Pole Top	Wall Thickness
RTS 20 - 11	20'	6.00"	3.20"	11
RTS 25 - 11	25'	7.00"	3.50"	11

Other heights available
Please consult factory

Mounting

Tenon Mount

PT27 2⅞" X 3" Tenon (Standard)
PT23 2⅜" X 3" Tenon
PT276 2⅞" 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

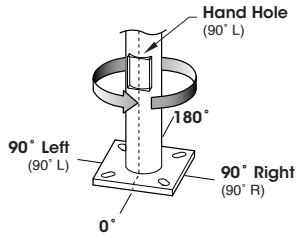
(Drilling template must be provided by customer

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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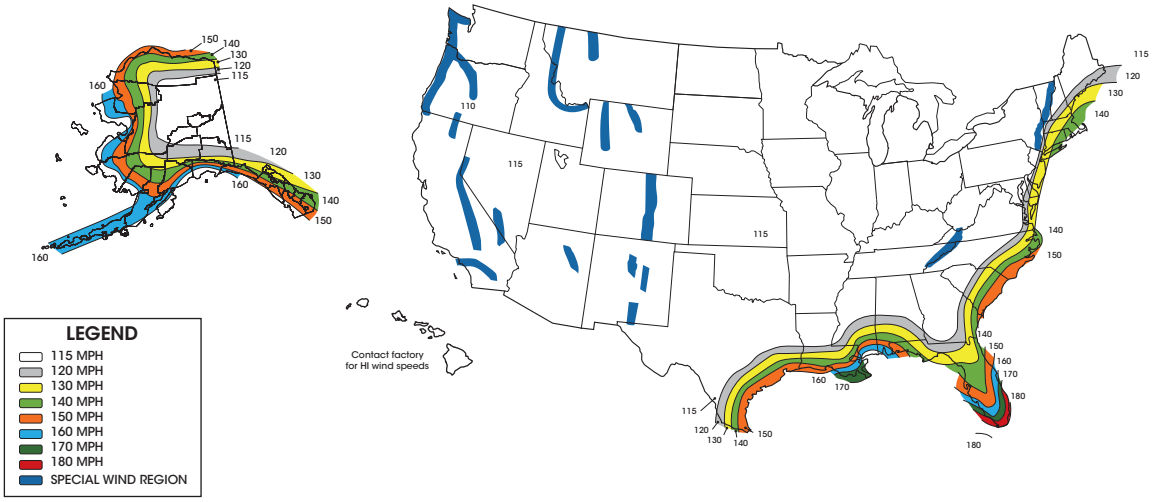
WIND MAP



EPA INFORMATION (ft^2)
(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-RTS 20-11	300 - 231*	15.0	15.0	15.0	15.0	14.2	12.2	10.2	8.9	7.2	6.6
HL-RTS 25-11	300 - 168*	15.0	15.0	15.0	13.1	11.2	9.1	7.3	6.2	5.5	4.8

EPA INFORMATION (ft^2)
(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-RTS 20-11	300 - 217*	13.7	13.4	11.4	9.4	8.5	6.7	6.2
HL-RTS 25-11	300 - 154*	12.4	10.1	8.2	6.7	5.7	5.0	4.4

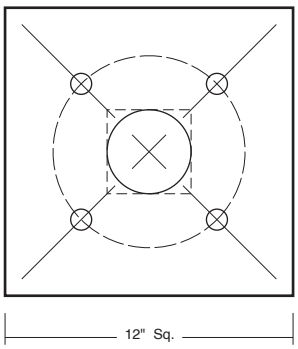
*** Please use the following to obtain the proper weight capacity: The maximum fixture weight equals 60 lbs. or the product of 35 lbs. x the EPA value, whichever is greater, not to exceed 300 lbs. Example, EPA = 2.2 , weight = 35 lbs. x 2.2 EPA = 77 lbs.**

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.

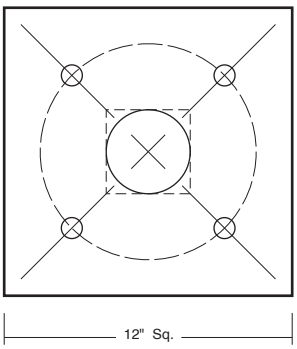
To mitigate 2nd Mode (Aeolian) Vibration please read the following Recommendations:
- We do not recommend the installation of poles without a fixture; such installation have been known to fail due to high pole vibrations. Replace with note 1 above
- Pole installations with a combined (fixtures, banners, flags, etc.) of less than 0.75 ft2 EPA and 25 feet or taller should be installed with a vibration dampener. Please consult with you site structural engineer.

ANCHOR BOLT TEMPLATES

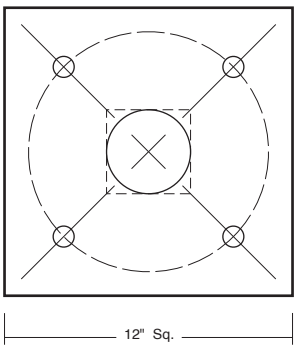
HL8
8" Bolt Circle



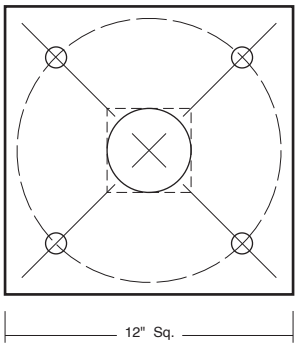
HL9
9" Bolt Circle



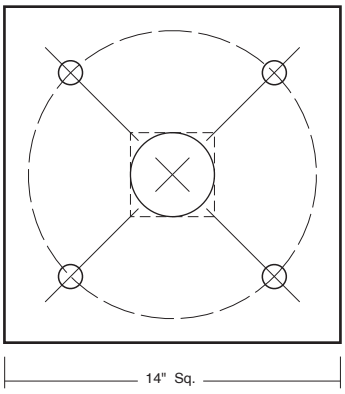
HL10
10" Bolt Circle



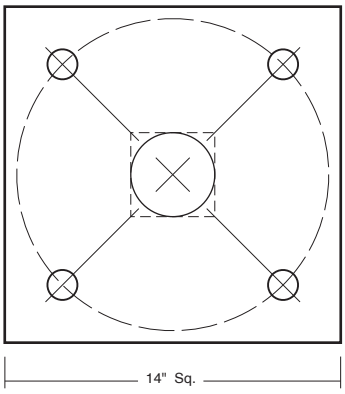
HL11
11" Bolt Circle



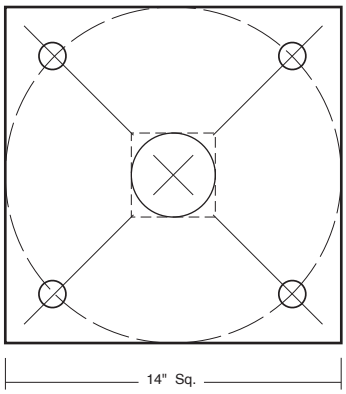
HL12
12" Bolt Circle



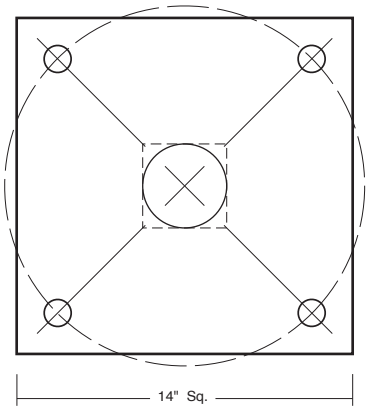
HL13
13" Bolt Circle



HL14
14" Bolt Circle



HL15
15" Bolt Circle



HL16
16" Bolt Circle