

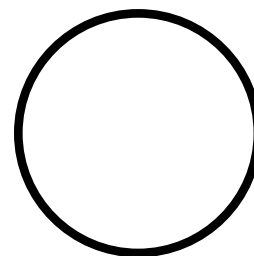


by Signify

Pole/Bracket

Site and Area Poles

Straight Round Aluminum Hinged Base



The Gardco hinged base aluminum pole consists of a one-piece round extruded aluminum lighting standard welded to a cast aluminum base plate. This top plate/pole assembly is attached on-site to the lower base with removeable pivot pins. This construction allows for easy installation and servicing of the attached luminaires without the need for a ladder or bucket truck. The poles are finished with either Architectural Class 1 anodizing or electrostatically applied TGIC polyester powdercoat. All poles include anchor bolts, full base cover, hand hole, ground lug and top cap.

Project:	
Location:	
Cat.No:	
Type:	
Lamps:	Qty:
Notes:	

Ordering Guide

example: RA4HB8D1BRPDR

Prefix	Base	Height ¹	Drilling	Finish	Options
	HB				
SIDE ARM MOUNT RA4 RA4.5 RA5 POST TOP MOUNT PRA4 PRA4.5 PRA5	HB Hinged Base	8' 10' 12' 15' 20'	D1 1 Way D2 2 Way D2@90 2 Way at 90° D3 3 Way D3@120 3 Way at 120° D4 4 Way T2 2 3/8" OD Tenon T4 4" OD Tenon	BRP Bronze Paint BLP Black Paint WP White Paint NP Natural Aluminum Paint BRA Bronze Anodized BLA Black Anodized NA Natural Anodized OC Optional Color Paint Specify RAL designation ex: OC-RAL7024. SC Special Color Paint Specify. Must supply color chip.	DR Duplex Receptacle GFCI Ground Fault Receptacle AHH Additional Hand Hole VDA Vibration Dampener Indicate height above pole base and orientation to hand hole for DR, GFCI and AHH options. See Pole Orientation information on Page 4. Nipples and Couplings NL Nipple - External thread CL Coupling - Internal thread Indicate size (1/2", 3/4", 1", 1 1/4", 1 1/2".) Indicate height above base and orientation to hand hole. See Pole Orientation Information on Page 4. Single Mount Bullhorn Brackets A15BH-19 Single - 1.9" OD A15BH-24 Single - 2.4" OD A215BH-19 2-Tenon - 1.9" OD A215BH-24 2-Tenon - 2.4" OD Indicate height above base and orientation to hand hole. See Pole Orientation Information on Page 4. Motion Response Provisions GMR Provision for Gardco HID Motion Response System Minimum Pole Height is 18'. Includes a 1/2" coupling placed 180° to the hand hole, 12' above the pole base. MSM Motion Sensor Mounting Provision for LED Luminaires available with Motion Response Minimum Pole Height is 18'. Includes a special hand hole with 1/2" coupling placed in the cover plate, 180° to the hand hole, 15' above the pole base.

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

1. Maximum Heights: PRA4 or RA4: 15' PRA4.5 or RA4.5: 15' PRA5 or RA5: 20'.

Poles Straight Round Aluminum – Hinged Base

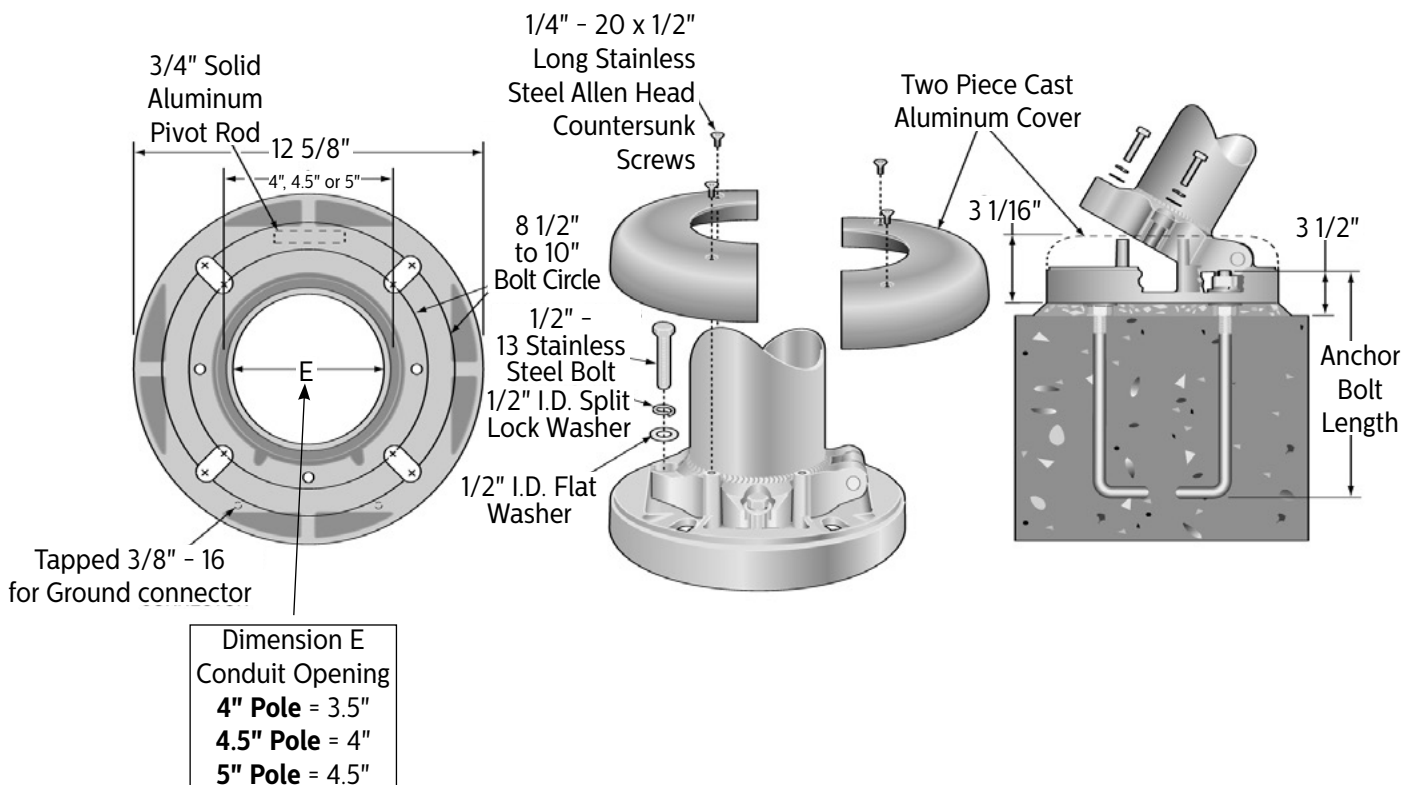
Pole Data

Catalog Number	Pole Size			Maximum Luminaire Loading ²			Anchor Bolt Data ³		
Prefix - Base - Height RA: Side Pole Mount PRA: Post Top Mount	Actual Height	Base Tenon Height (ft.)	Wall Thickness (inches)	100 MPH EPA ft ²	90 MPH EPA ft ²	80 MPH EPA ft ²	Bolt Circle (inches)	Bolt Size (inches)	Max Proj. (inches)
PRA4-HB-8	6' 2"	-	0.125	4.7	6.1	8.2	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA4-HB-10	8' 2"	10'	0.125	4.7	6.1	8.2	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA4-HB-12	10'	12'	0.125	3.3	4.4	6.1	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA4-HB-15	13' 4"	15'	0.125	1.2	1.9	3.1	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA4.5-HB-8	6' 4"	8'	0.125	10.7	13.3	17.2	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA4.5-HB-10	8' 4"	10'	0.125	7.6	9.5	12.5	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA4.5-HB-12	10' 4"	12'	0.125	5.6	7.1	9.5	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA4.5-HB-15	13' 4"	15'	0.125	2.5	3.3	4.9	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA5-HB-15	13'	15'	0.125	3.6	4.7	6.2	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA5-HB-18	16'	18'	0.188	4.9	6.2	8.2	8.5 - 10	3/4 x 17 x 3	3.5"
(P)RA5-HB-20	18'	20'	0.188	3.7	4.8	6.4	8.5 - 10	3/4 x 17 x 3	3.5"

2. **Warning:** Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability.

3. Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates.

Dimensions



NOTE: Factory supplied template must be used when setting anchor bolts.

Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

Poles Straight Round Aluminum – Hinged Base

Specifications

POLE SHAFT

The pole shaft is a one-piece, seamless 6000 series extruded aluminum cylindrical tubing and is heat-treated to achieve a T6. **BASE PLATE ASSEMBLY**The base assembly consists of a cast aluminum alloy A356 T6 upper base plate that is welded directly to the pole shaft.

ANCHOR BOLTS

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds a minimum guaranteed yield strength of 50,000 psi. Bolts have an "L" bend on one end and threaded on the opposite end. Anchor bolts are completely hot dipped galvanized. Four (4) properly sized bolts, each furnished with two (2) regular hex nuts and two (2) flat washers, are provided per pole, unless otherwise specified.

BASE COVER

A two-piece, heavy wall aluminum cover completely conceals the entire base plate and anchorage. The base cover is secured to the base assembly with four (4) stainless steel fasteners.

HAND HOLE

The hand hole has a nominal rectangular 2 3/8" x 4 1/2" (4") or 3" x 5" (4.5", 5") inside opening in the pole shaft assembly. Included is an aluminum cover plate with attachment screws. The hand hole is located 18" above the base and 180° opposite the hinge.

POLE TOP CAP

Each RA pole assembly is provided with a removable composite friction-fit pole top cap. PRA poles do not require pole top caps.

FINISH

Poles are available with bronze, natural or black Aluminum Association Architectural Class 1 anodized finish. Electrostatically applied, thermally cured TGIC polyester powdercoat finish or liquid polyurethane is also available.

General Pole Information

DESIGN

The poles as charted are designed to withstand dead loads and predicted dynamic loads developed by variable wind speeds with an additional 30% gust factor under the following conditions: The charted weights include luminaire(s) and/or mounting bracket(s). The wind velocities are based on 10 mph increments from 80 mph through 100 mph. Poles to be located in areas of known abnormal conditions may require special consideration. For example: coastal areas, airports and areas of special winds.

Poles are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration requiring Gardco's recommendation. Height correction factors and drag coefficients are applied to the entire structure. An appropriate safety factor is maintained based on the minimum yield strength of the material incorporated in the pole.

WARNING

This design information is intended as a general guideline only. The customer is solely

responsible for proper selection of pole, luminaire, accessory and foundation under the given site conditions and intended usage. The addition of any items to the pole, in addition to the luminaire, will dramatically impact the EPA load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Gardco assumes no responsibility for such proper analysis or product selections. Failure to insure proper site analysis, pole selection, loads and installation can result in

pole failure, leading to serious injury or property damage.

GENERAL INFORMATION

Mounting height is the vertical distance from the base of the lighting pole to the center of the luminaire arm at the point of luminaire attachment. Twin arms as charted are oriented at 180° with respect to each other. For applications of two (2) arms at 90° or other multiple arm applications, consult the factory.

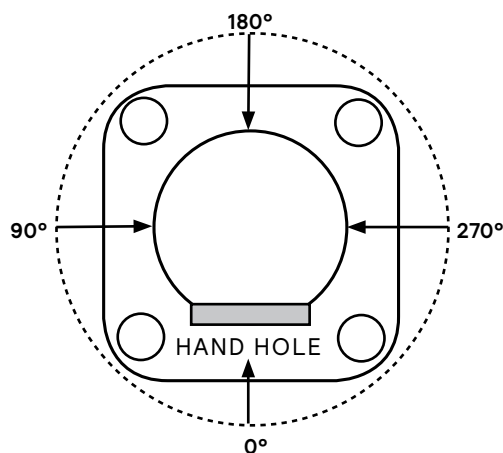
WARRANTY

Gardco poles feature a 1 year limited warranty. See Warranty Information on www.sitelighting.com for complete details and exclusions.

Poles Straight Round Aluminum – Hinged Base

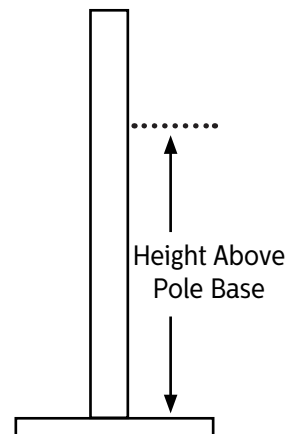
Orientation Information

Factory installed options and accessories



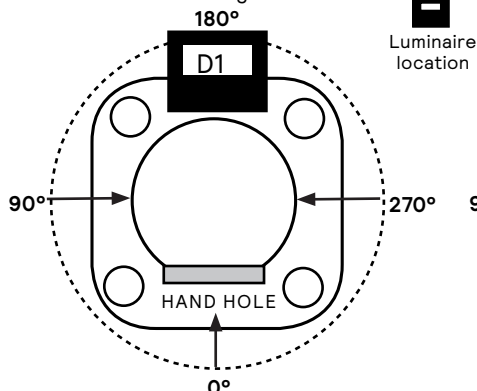
Orientation is measured clockwise from the Hand Hole Center.

For Factory Installed Options and Accessories, Specify Orientation from Hand Hole and Height Above Pole Base Where Required.

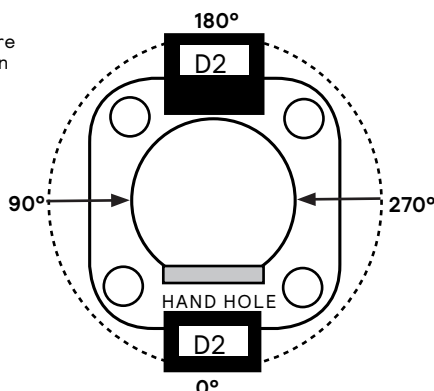


Standard arm mount luminaire orientation

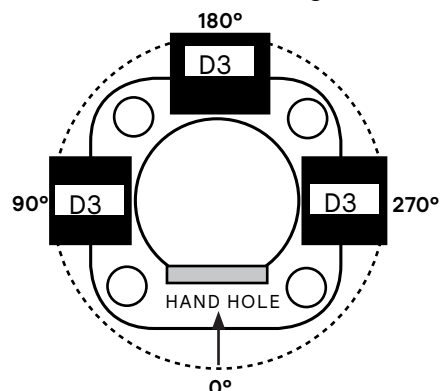
D1 Drilled for Single Luminaire



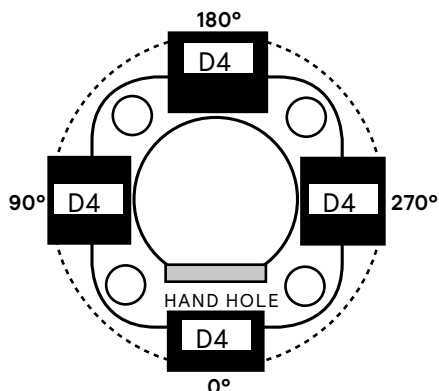
D2 Drilled for 2 Luminaires at 180°



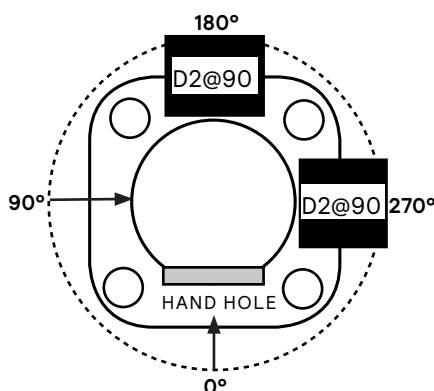
D3 Drilled for 3 Luminaires @ 90°



D4 Drilled for 4 Luminaires at 90°



D2@90 Drilled for 2 Luminaires at 90°



D3@120 Drilled for 3 Luminaires at 120°

