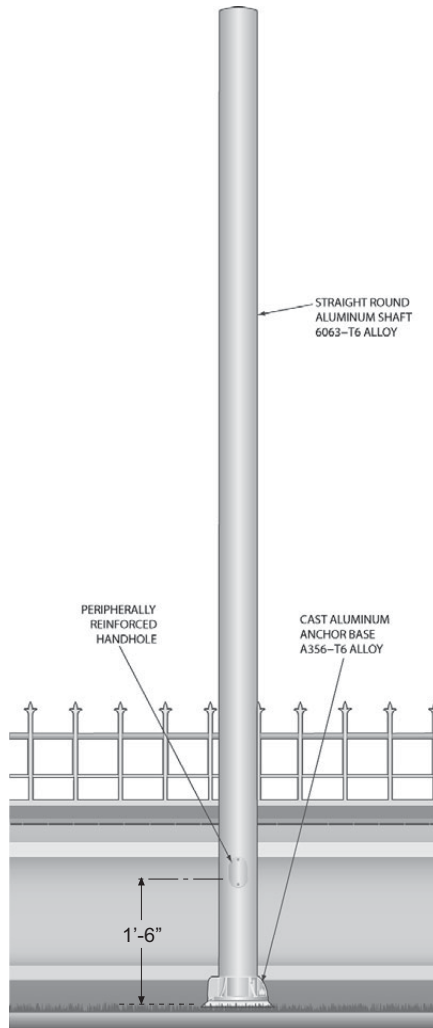


Pole-ARSP Series

Round Straight Aluminum Pole

Type:	Job:	Approvals:			
Catalog Number:					
Series (pole type and height)	Base O.D.	Gauge (wall thickness)	Finish	Mounting Designation (arm or tenon mounting configuration)	Date: Page 1 of 4



Round Straight Aluminum Pole (ARSP)

See below for ordering example to specify a 20' Round Straight Aluminum Pole, having a 5.00" O.D. Base dimension, 0.188" wall thickness, Dark Bronze powder coat Finish, with a 2-3/8" O.D. x 4" tall pole top tenon.

ARSP20-5-18-DB-T2

20	Nominal Mounting Height (in Feet)
5	Base O.D. (in Inches)
18	0.188" Wall Thickness
DB	Dark Bronze (Powder Coat Finish)
T2	2-3/8" O.D. x 4" tall Pole Top Tenon (Tenon Mount Configuration)

Specifications

All aluminum alloys shall comply with metallurgical and mechanical properties set forth in the Aluminum Association Standards.

Anchor Bolts

Each anchor base shall include four steel hot dip galvanized anchor bolts. Each anchor bolt is furnished with two hex nuts and two flat washers.

Anchor Base

The anchor base is cast from A356 alloy aluminum. The shaft shall be inserted into the base casting and joined by a continuous circumferential weld at the inside bottom of the anchor base. The assembly shall be heat treated to a T6 temper after all structural welding has been completed. A356 nut covers shall be included with each anchor base unless otherwise specified. See Anchor Base and Bolt Detail.

Pole Shaft

The pole shaft shall be extruded from seamless 6063 series alloy aluminum and shall be heat treated to produce a T6 temper.

Handhole

All round poles shall include a peripherally reinforced flush covered handhole centered 18" above the bottom of the pole. The opening shall be rectangular in shape with the major dimensions along the vertical axis. The opening in the 4" diameter poles shall be 2-3/8" x 4-1/2". The opening in the 4-1/2", 5", and 6" round poles shall be 3" x 5".

Pole Top Cap and Arm Mounting

Round shafts shall be supplied with a top cap when the shafts are to be drilled for side mounting of luminaires. Specify choice of drill mounting (D1 through D6) for luminaire arm mounting configuration required. Specify appropriate Drill Template (Y) for intended luminaire mounting type.

Pole Top Tenon

Aluminum pole top tenons may be specified. Standard tenon sizes are 2-3/8" O.D. x 4" tall (T2), 3.0" O.D. x 5-5/8" tall (T3), or 4" O.D. x 5-5/8" tall (T4) vertical tubing. Bullhorn accessories are available.

Finish

Standard available finishes are Satin Brushed finish (SBF) and polyester powder coat, electrostatically applied and oven cured, in the colors listed. Poles with the Satin Brushed finish shall be longitudinally polished, resulting in a high quality brushed finish. After finishing, each pole shall be fully wrapped with neutral PH kinkle/kraft paper for protection in shipment.

Fastening Hardware

All structural fasteners are galvanized high strength carbon steel. All other fasteners are galvanized or zinc plated carbon steel or stainless steel.

Design

Consult *Wind Velocity Map* to ensure suitability for location and application.

Standards (poles) are designed to withstand dead loads and theoretical dynamic loads developed by variable wind speeds, as charted, with an appropriate gust factor under the following conditions:
Wind velocities are based on 10 mph increments from 80 mph through 100 mph.

Note: Standards (poles) to be located in areas of known abnormal conditions require special consideration. For example: coastal areas, airports, and areas of special winds such as the Chinook Winds along the eastern slope of the Rocky Mountains.

Standards (poles) are designed for ground mounted applications. Consult factory for special consideration for mounting on structures (such as bridges and buildings). 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 into the standard.

Pole-ARSP Series

Round Straight Aluminum Pole

Type:	Job:	Page 2 of 4
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Series/Pole Height ⁽¹⁾	Base ⁽²⁾	Wall Thickness ⁽³⁾	Finish	Mounting Designation Options
<input type="checkbox"/> ARSP08 8' pole	<input type="checkbox"/> 4	<input type="checkbox"/> 12 0.125"	<input type="checkbox"/> SBF Satin Brushed Finish	Arm Mount Configurations ⁽⁵⁾
<input type="checkbox"/> ARSP10 10' pole	<input type="checkbox"/> 4.5	<input type="checkbox"/> 15 0.156"	<input type="checkbox"/> GR Gray ⁽⁴⁾	<input type="checkbox"/> D1-DT(Y) 1 @ 90°, specify drill template (Y)
<input type="checkbox"/> ARSP12 12' pole	<input type="checkbox"/> 5	<input type="checkbox"/> 18 0.188"	<input type="checkbox"/> SA Satin Aluminum ⁽⁴⁾	<input type="checkbox"/> D2-DT(Y) 2 @ 180°, specify drill template (Y)
<input type="checkbox"/> ARSP14 14' pole	<input type="checkbox"/> 6		<input type="checkbox"/> DB Dark Bronze ⁽⁴⁾	<input type="checkbox"/> D3-DT(Y) 3 @ 120°, specify drill template (Y)
<input type="checkbox"/> ARSP16 16' pole			<input type="checkbox"/> BLK Black ⁽⁴⁾	<input type="checkbox"/> D4-DT(Y) 4 @ 90°, specify drill template (Y)
<input type="checkbox"/> ARSP18 18' pole			<input type="checkbox"/> WHT White ⁽⁴⁾	<input type="checkbox"/> D5-DT(Y) 2 @ 90°, specify drill template (Y)
<input type="checkbox"/> ARSP20 20' pole				<input type="checkbox"/> D6-DT(Y) 3 @ 90°, specify drill template (Y)
<input type="checkbox"/> ARSP25 25' pole				Tenon Mount Configurations ⁽⁶⁾
<input type="checkbox"/> ARSP30 30' pole				<input type="checkbox"/> T2 2.375" (2-3/8") O.D. x 4.0" tall tenon ⁽⁷⁾
				<input type="checkbox"/> T3 3.0" O.D. x 5.625" (5-5/8") tall tenon
				<input type="checkbox"/> T4 4.0" O.D. x 5.625" (5-5/8") tall tenon

(1) Round Straight Aluminum Pole Series. Consult Pole Information Chart for corresponding available base O.D. and wall thickness.

(2) In inches.

(3) See chart for availability with desired pole height.

(4) Powder coat finish. Consult factory for special colors and finishes.

(5) Drill Mounting patterns for Round Pole. Specify appropriate Drill Template (Y) for intended luminaire to be arm mounted.

(6) Standard pole top pipe tenon options listed. Consult factory to specify custom size.

(7) 4-1/2" tall tenon available as special order. Consult factory when specifying with PTRD or PTSQ (EAL post top mounting options).

Pole Information Chart ^(1,2)

Nominal Mounting Height (ft)	Pole Shaft			Max. Allowable Luminaire Weight (lbs)	Maximum Allowable Luminaire EPA (ft²)				
	Catalog Number	Base O.D. (in)	Wall Thickness (in)		70 MPH w/1.3 Gust	80 MPH w/1.3 Gust	90 MPH w/1.3 Gust	100 MPH w/1.3 Gust	110 MPH w/1.3 Gust
8	ARSP08- 4 -12-XXX-XX	4.00	0.125	75	17.8	13.2	10.1	8.0	6.5
	ARSP08- 4.5 -12-XXX-XX	4.50	0.125	75	23.1	17.2	13.3	10.7	8.8
	ARSP08- 4.5 -18-XXX-XX	4.50	0.188	75	34.0	25.6	20.0	16.1	13.3
10	ARSP10- 4 -12-XXX-XX	4.00	0.125	75	13.2	9.8	7.2	5.5	4.5
	ARSP10- 4.5 -12-XXX-XX	4.50	0.125	150	16.9	12.5	9.5	7.6	6.2
	ARSP10- 4.5 -18-XXX-XX	4.50	0.188	150	25.6	19.2	14.8	11.9	9.6
12	ARSP10- 5 -12-XXX-XX	5.00	0.125	150	21.5	16.0	12.5	10.0	8.1
	ARSP12- 4 -12-XXX-XX	4.00	0.125	75	9.9	7.1	5.1	3.8	3.1
	ARSP12- 4.5 -12-XXX-XX	4.50	0.125	75	13.2	9.5	7.1	5.6	4.5
14	ARSP12- 4.5 -18-XXX-XX	4.50	0.188	75	20.2	14.9	11.4	9.1	7.4
	ARSP12- 5 -12-XXX-XX	5.00	0.125	150	16.6	12.1	9.4	7.4	6.0
	ARSP12- 5 -15-XXX-XX	5.00	0.156	150	21.1	15.5	12.1	9.6	7.9
16	ARSP12- 5 -18-XXX-XX	5.00	0.188	150	25.5	19.1	14.8	11.9	9.6
	ARSP14- 4 -12-XXX-XX	4.00	0.125	150	7.2	4.8	3.3	2.2	1.8
	ARSP14- 4.5 -12-XXX-XX	4.50	0.125	150	9.8	6.8	4.9	3.9	3.1
18	ARSP14- 4.5 -18-XXX-XX	4.50	0.188	150	15.8	11.4	8.6	6.8	5.4
	ARSP14- 5 -12-XXX-XX	5.00	0.125	150	12.8	9.2	7.1	5.5	4.5
	ARSP14- 5 -15-XXX-XX	5.00	0.156	150	16.7	12.1	9.4	7.4	6.0
20	ARSP14- 5 -18-XXX-XX	5.00	0.188	150	20.5	15.1	11.6	9.3	7.5
	ARSP16- 4 -12-XXX-XX	4.00	0.125	150	5.2	3.3	1.9	1.2	0.8
	ARSP16- 4.5 -12-XXX-XX	4.50	0.125	150	7.4	4.9	3.3	2.5	1.9
22	ARSP16- 4.5 -18-XXX-XX	4.50	0.188	150	12.6	8.8	6.5	5.1	4.0
	ARSP16- 5 -12-XXX-XX	5.00	0.125	150	10.0	6.9	5.2	4.0	3.2
	ARSP16- 5 -15-XXX-XX	5.00	0.156	150	13.3	9.4	7.2	5.6	4.5
24	ARSP16- 5 -18-XXX-XX	5.00	0.188	150	16.5	11.9	9.2	7.2	5.8
	ARSP16- 6 -15-XXX-XX	6.00	0.156	150	21.3	16.0	12.5	9.9	8.0
	ARSP16- 6 -18-XXX-XX	6.00	0.188	150	26.2	19.8	15.3	12.2	10.0
26	ARSP18- 4.5 -18-XXX-XX	4.50	0.188	150	10.0	6.9	5.2	4.0	3.2
	ARSP18- 5 -12-XXX-XX	5.00	0.125	150	13.3	9.4	7.2	5.6	4.5
	ARSP18- 5 -15-XXX-XX	5.00	0.156	150	16.5	11.9	9.2	7.2	5.8
28	ARSP18- 5 -18-XXX-XX	5.00	0.188	150	21.3	16.0	12.5	9.9	8.0
	ARSP18- 6 -18-XXX-XX	6.00	0.188	150	26.2	19.8	15.3	12.2	10.0
30	ARSP20- 4.5 -18-XXX-XX	4.50	0.188	150	8.0	5.1	3.4	2.5	1.9
	ARSP20- 5 -12-XXX-XX	5.00	0.125	150	5.8	3.5	2.5	1.8	1.3
	ARSP20- 5 -15-XXX-XX	5.00	0.156	150	8.5	5.5	4.0	3.1	2.4
32	ARSP20- 5 -18-XXX-XX	5.00	0.188	150	11.1	7.5	5.6	4.2	3.3
	ARSP20- 6 -15-XXX-XX	6.00	0.156	150	14.8	10.9	8.4	6.5	5.2
	ARSP20- 6 -18-XXX-XX	6.00	0.188	150	18.7	13.9	10.7	8.4	6.7
34	ARSP25- 4.5 -18-XXX-XX ⁽³⁾	4.50	0.188	150	3.6	1.5	-	-	-
	ARSP25- 6 -15-XXX-XX ⁽³⁾	6.00	0.156	150	8.6	6.1	4.5	3.3	2.5
	ARSP25- 6 -18-XXX-XX	6.00	0.188	150	11.5	8.4	6.2	4.7	3.6
36	ARSP30- 6 -18-XXX-XX ⁽³⁾	6.00	0.188	200	6.1	4.1	2.8	1.9	1.3

Pole Information Chart Notes:

(1) Nominal handhole sizes as follows: 4" poles: 2-3/8" x 4-1/2". 4.5", 5", and 6" poles: 3" x 5".

(2) Chart shows typical weight and allowable size of luminaires suitable for pole.

(3) Pole includes factory installed vibration dampener.

Philips Wide-Lite Professional Luminaires reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications / availability subject to change by manufacturer without notice. Please refer to detailed specification sheets for additional information and spec details.

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PHILIPS
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Pole-ARSP Series

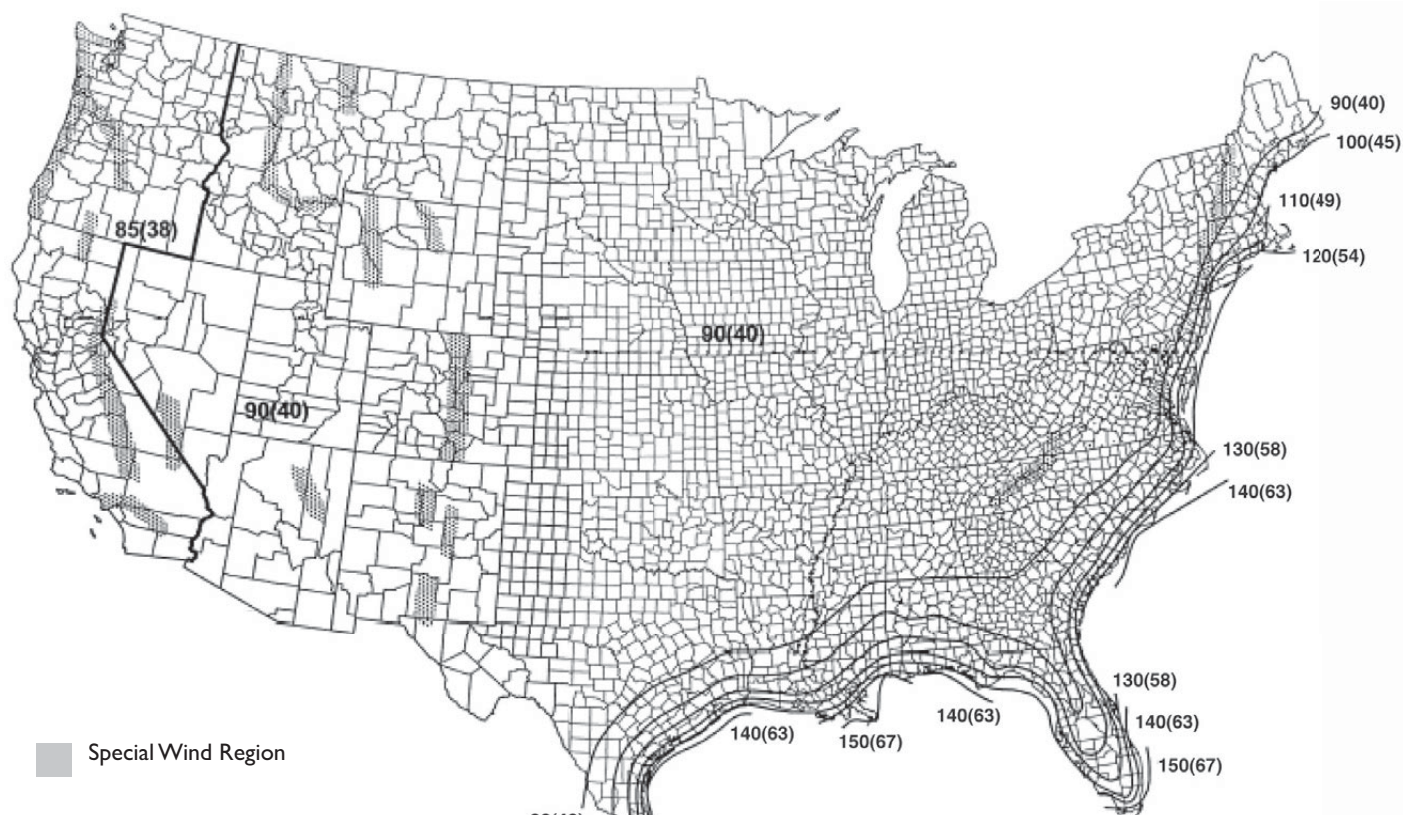
Round Straight Aluminum Pole

Type:

Job:

Page 3 of 4

Wind Velocity Map



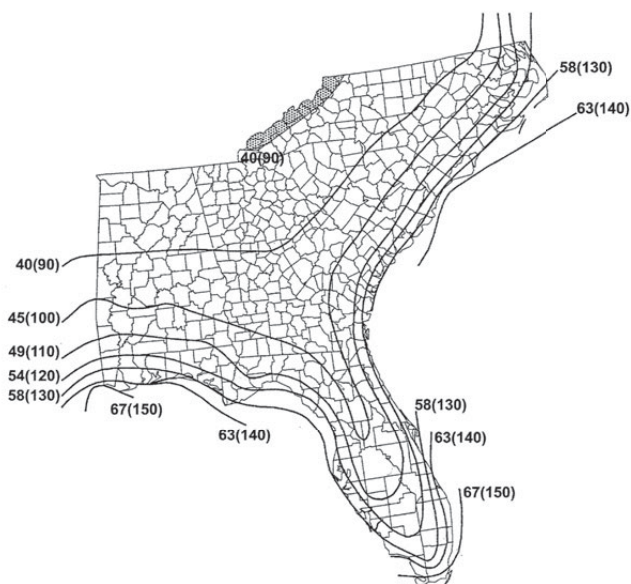
Special Wind Region

Location	V mph	(m/s)
Hawaii	105	(47)
Puerto Rico	145	(65)
Guam	170	(76)
Virgin Islands	145	(65)
American Samoa	125	(56)

90(40)
100(45)
110(49)
120(54)
130(58)
140(63)
150(67)

Notes:

1. Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33 ft (10m) above ground for Exposure C category.
2. Linear interpolation between wind contours is permitted.
3. Island and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
4. Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.



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Pole-ARSP Series

Round Straight Aluminum Pole

Type:

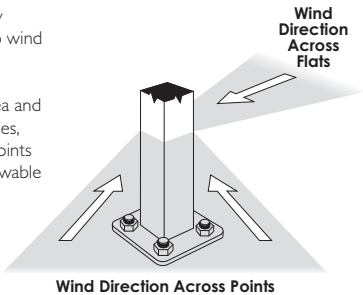
Job:

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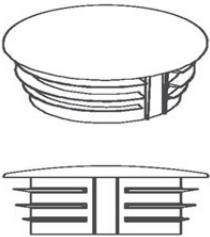
Wind Direction detail

Maximum weight and EPA values are determined by analyzing stress from two wind directions as shown.

Due to the increased area and reduced section properties, stress levels across the points generally control the allowable loads.



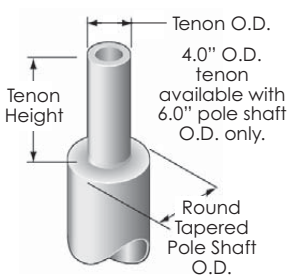
Pole Top Cap detail



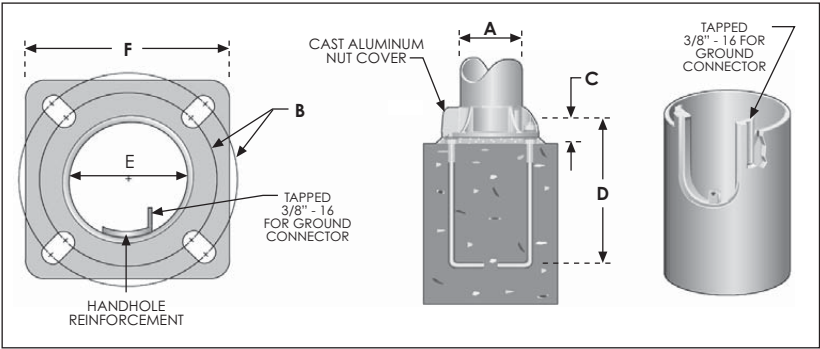
Black plastic pole top caps are standard with drilled poles.

Cast caps with screws are available as an adder.

Round Pole Tenon detail



Anchor Base and Bolt detail



A Pole O.D.	B Bolt Circle	C Bolt Projection	D Bolt Size	E Conduit Opening	F Base Size
4"	6-1/2" - 8-1/4"	3-1/4"	3/4" x 17"	3-3/4"	8-3/4"
4.5"	7" - 8-5/8"	3-1/4"	3/4" x 17"	4-1/8"	8-3/4"
5"	7-1/2" - 9-1/2"	3-1/4"	3/4" x 17"	4-1/2"	9-1/4"
6"	8-3/4" - 10-1/4"	3-1/2"	3/4" x 17"	5-1/2"	10-1/4"

Notes