architectural arealighting

RSA-A Series

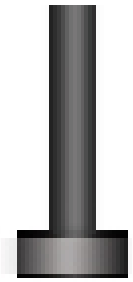
ROUND STRAIGHT ALUMINUM POLE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

AAL Poles



SPECIFICATIONS

APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

- SHAFT: One-piece straight aluminum with round cross section; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum.
- BOLT COVERS: Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HAND HOLE: Rectangular 3x5 aluminum hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for levelingwarnings

FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in multiple standard colors; Custom colors available; RAL number preferable

ORDERING GUIDE

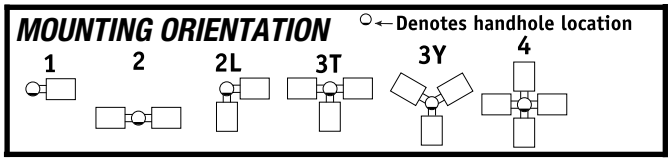
Example: PR4-4R12-125-PCR-GFI-SBC-PTF-BLT

CATALOG #

POLE

Seiries		Pole	Shaft	Thickness	Mounting		Finish		VM2	
RSA-A	Round Straight Aluminum Pole	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	**TA**	Tenon (2.375" OD)	**BLS**	Black Gloss Smooth	**GFI**	20 Amp GFCI Receptacle and Cover
					TB	Tenon (2.875" OD)	**BLT**	Black Matte Textured	**EHH**	Extra Handhole
					OT	Open Top (includes pole cap)	**DBS**	Dark Bronze Gloss Smooth	**C05**	.5" Coupling
							DBT	Dark Bronze Matte Textured	**C07**	.75" Coupling
							GTT	Graphite Matte Textured	**C20**	2" Coupling
							LGS	Light Grey Gloss Smooth	**VM2**	2nd mode vibration damper
							LGT	Light Grey Matte Textured	**LAB**	Less Anchor Bolts
							PSS	Platinum Silver Gloss Smooth	**UL**	UL Certified
							VGT	Verde Green Matte Textured		
							WHS	White Gloss Smooth		
							WHT	White Matte Textured		
							Color Option			
							CC [1]	Custom Color		

Accessories	
VM2SXX	2nd mode vibration damper, ordered separately



Notes:

1 Consult factory for custom color, marine and corrosive finish

RSA-A Series

ROUND STRAIGHT ALUMINUM POLE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

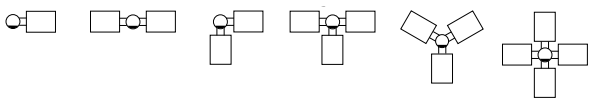
PRODUCTS EXCEPTIONS & DETAILS

ORDERING MATRIX

Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Circle (range)	Base Plate Diameter	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters								
RSA-A-10-40-A	10	3.0	4" round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	27
RSA-A-12-40-A	12	3.7	4" round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	31
RSA-A-14-40-A	14	4.3	4" round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	36
RSA-A-16-40-A	16	4.9	4" round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	40
RSA-A-18-40-A	18	5.5	4" round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	45
RSA-A-20-40-A	20	6.1	4" round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	50
RSA-A-10-40-B	10	3.0	4" round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	38
RSA-A-12-40-B	12	3.7	4" round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	44
RSA-A-14-40-B	14	4.3	4" round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	51
RSA-A-16-40-B	16	4.9	4" round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	58
RSA-A-18-40-B	18	5.5	4" round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	65
RSA-A-20-40-B	20	6.1	4" round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	71
RSA-A-10-40-C	12	3.7	4" round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	57
RSA-A-12-40-C	14	4.3	4" round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	66
RSA-A-14-40-C	16	4.9	4" round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	75
RSA-A-16-40-C	18	5.5	4" round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	83
RSA-A-18-40-C	20	6.1	4" round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	92
RSA-A-12-50-B	12	3.7	5" round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	56
RSA-A-14-50-B	14	4.3	5" round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	64
RSA-A-16-50-B	16	4.9	5" round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	73
RSA-A-18-50-B	18	5.5	5" round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	81
RSA-A-20-50-B	20	6.1	5" round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	90
RSA-A-25-50-B	25	7.6	5" round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	111
RSA-A-16-60-A	16	4.9	6" round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	60
RSA-A-18-60-A	18	5.5	6" round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	67
RSA-A-20-60-A	20	6.1	6" round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	74
RSA-A-25-60-A	25	7.6	6" round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	91
RSA-A-16-60-C	16	5.5	6" round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	127
RSA-A-18-60-C	18	6.1	6" round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	140
RSA-A-20-60-C	20	7.6	6" round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	174
RSA-A-25-60-C	25	9.1	6" round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4" x 30" x 3"	2.75"	208

MOUNTING ORIENTATION

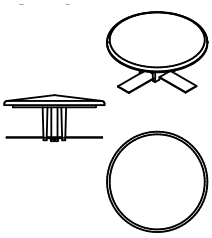
1 **2** **2L** **3T** **3Y** **4**



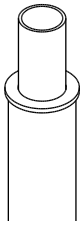
○← Denotes handhole location

PRODUCTS EXCEPTIONS & DETAILS (CONTINUED)

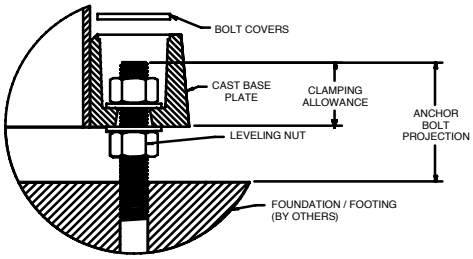
PRODUCT DETAILS



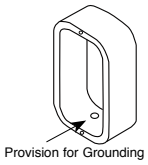
Pole Cap



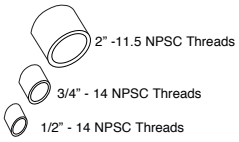
Tenan



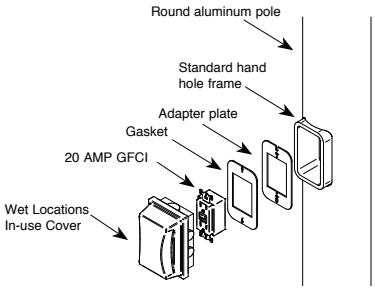
Base Detail



EHH - Extra Handhole



C05 - C07 - C20 - Coupling



GFI - 20 AMP GFCI Receptacle & Cover

VM2 - Vibration Damper 2nd Mode

Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd vibration.

VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

VM2SXX - Vibration Damper 2nd Mode

Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd vibration.

NOTE: Factory supplied template must be used when setting anchor bolts. Current Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

OPTION ORIENTATION

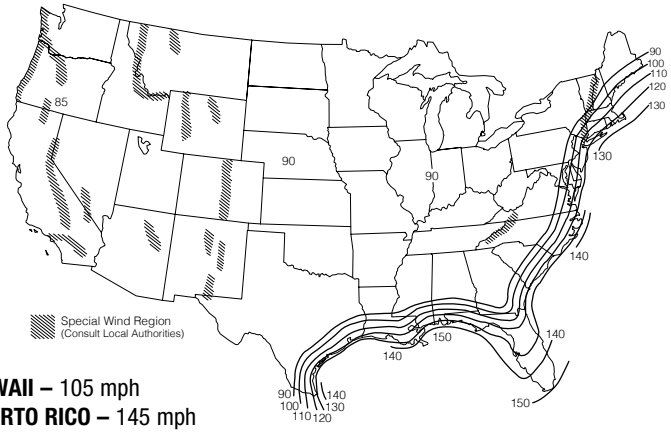
- Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: RSAA-K-20-40-A-TA-DBS-CO7-0-15 (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.

RSA-A Series

ROUND STRAIGHT ALUMINUM POLE

PRODUCTS EXCEPTIONS & DETAILS (CONTINUED)

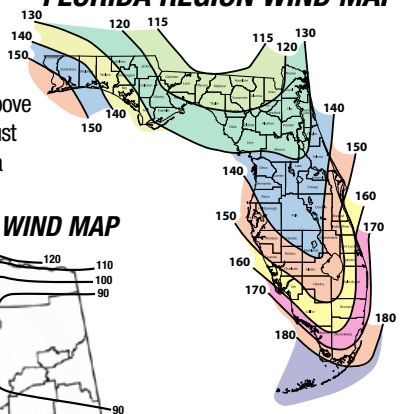
ASCE7-05 WIND MAP



HAWAII – 105 mph
PUERTO RICO – 145 mph

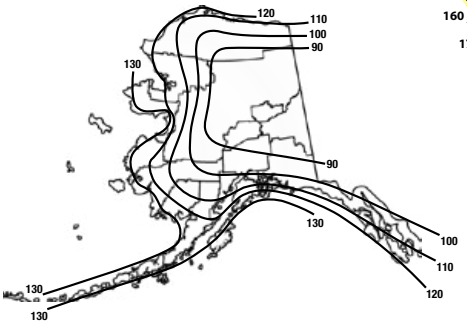
***PRINTED WITH PERMISSION FROM ASCE**

FLORIDA REGION WIND MAP



- Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds										
Catalog Number	85	90	100	105	110	120	130	140	145	150
RSA-A-10-40-A	9.0	7.9	6.2	5.5	4.8	3.9	3.2	2.7	2.5	2.3
RSA-A-12-40-A	6.8	5.9	4.5	3.9	3.4	2.6	2.1	1.7	1.6	1.4
RSA-A-14-40-A	5.1	4.4	3.1	2.6	2.2	1.6	1.2	0.9	0.8	0.7
RSA-A-16-40-A	3.8	3.2	2.1	1.6	1.3	0.7	0.5	NR	NR	NR
RSA-A-18-40-A	2.7	2.1	1.2	0.8	NR	NR	NR	NR	NR	NR
RSA-A-20-40-A	1.7	1.2	NR	NR	NR	NR	NR	NR	NR	NR
RSA-A-10-40-B	13.7	12.1	9.6	8.6	7.7	6.3	5.3	4.5	4.2	3.9
RSA-A-12-40-B	10.7	9.4	7.3	6.5	5.7	4.6	3.8	3.2	3.0	2.7
RSA-A-14-40-B	8.4	7.3	5.6	4.9	4.2	3.3	2.7	2.2	2.0	1.9
RSA-A-16-40-B	6.6	5.8	4.2	3.6	3.0	2.2	1.8	1.4	1.3	1.1
RSA-A-18-40-B	5.1	4.3	3.0	2.4	2.0	1.3	1.0	0.7	0.6	0.5
RSA-A-20-40-B	3.8	3.1	2.0	1.5	1.1	0.5	NR	NR	NR	NR
RSA-A-12-40-C	14.1	12.5	9.9	8.8	7.9	6.4	5.4	4.6	4.2	3.9
RSA-A-14-40-C	11.3	9.9	7.7	6.8	6.0	4.8	4.0	3.4	3.1	2.9
RSA-A-16-40-C	9.1	7.9	6.0	5.3	4.6	3.5	2.9	2.4	2.2	2.0
RSA-A-18-40-C	7.3	6.3	4.6	3.9	3.3	2.4	1.9	1.6	1.4	1.2
RSA-A-20-40-C	5.7	4.8	3.4	2.8	2.3	1.5	1.1	0.8	0.7	0.6
RSA-A-12-50-B	18.1	16.0	12.9	11.7	10.6	8.9	7.5	6.4	5.9	5.5
RSA-A-14-50-B	14.6	12.8	10.2	9.2	8.4	7.0	5.8	5.0	4.6	4.3
RSA-A-16-50-B	11.9	10.3	8.1	7.3	6.6	5.4	4.5	3.8	3.5	3.3
RSA-A-18-50-B	9.5	8.2	6.3	5.7	5.1	4.2	3.4	2.8	2.6	2.4
RSA-A-20-50-B	7.5	6.4	4.8	4.3	3.8	3.0	2.4	2.0	1.8	1.6
RSA-A-25-50-B	3.8	2.9	1.9	1.6	1.3	0.9	0.6	NR	NR	NR
RSA-A-16-60-A	11.9	10.6	8.4	7.6	6.9	5.7	4.7	4.0	3.7	3.4
RSA-A-18-60-A	9.5	8.4	6.7	6.0	5.4	4.4	3.6	3.0	2.8	2.5
RSA-A-20-60-A	7.5	6.5	5.1	4.6	4.1	3.3	2.7	2.2	2.0	1.8
RSA-A-25-60-A	3.6	3.1	2.2	1.9	1.6	1.1	0.8	0.5	NR	NR
RSA-A-18-60-C	21.4	19.1	15.5	14.0	12.0	9.9	8.3	7.0	6.5	6.0
RSA-A-20-60-C	17.9	15.9	12.8	11.6	10.5	8.1	6.8	5.7	5.2	4.8
RSA-A-25-60-C	11.4	10.1	8.0	7.2	6.5	4.8	3.9	3.2	2.9	2.6
RSA-A-30-60-C	6.9	6.0	4.6	4.1	3.6	2.4	1.8	1.4	1.2	1.1

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds								
Catalog Number	115	120	130	140	150	160	170	180
RSA-A-10-40-A	6.4	5.8	4.7	3.8	3.1	2.5	2.4	2.3
RSA-A-12-40-A	4.6	4.1	3.2	2.4	1.8	1.7	1.6	1.5
RSA-A-14-40-A	3.2	2.8	2.0	1.4	0.9	NR	NR	NR
RSA-A-16-40-A	2.1	1.7	1.0	0.5	NR	NR	NR	NR
RSA-A-18-40-A	1.1	0.8	NR	NR	NR	NR	NR	NR
RSA-A-10-40-B	10.1	9.1	7.6	6.3	5.3	4.4	4.2	3.9
RSA-A-12-40-B	7.6	6.9	5.6	4.5	3.7	2.9	2.8	2.7
RSA-A-14-40-B	5.8	5.1	4.0	3.1	2.4	1.8	1.6	1.4
RSA-A-16-40-B	4.3	3.7	2.7	2.0	1.3	0.8	0.5	NR
RSA-A-18-40-B	3.0	2.5	1.7	1.0	NR	NR	NR	NR
RSA-A-20-40-B	1.9	1.5	0.7	NR	NR	NR	NR	NR
RSA-A-12-40-C	10.3	9.3	7.7	6.4	5.3	4.4	4.2	4.0
RSA-A-14-40-C	8.0	7.2	5.8	4.7	3.8	3.0	2.8	2.6
RSA-A-16-40-C	6.2	5.5	4.3	3.3	2.5	1.9	1.7	1.5
RSA-A-18-40-C	4.6	4.0	3.0	2.1	1.5	0.9	0.7	0.5
RSA-A-20-40-C	3.3	2.8	1.9	1.2	0.6	NR	NR	NR
RSA-A-12-50-B	13.2	12.0	9.9	9.4	8.0	6.8	5.9	5.1
RSA-A-14-50-B	10.4	9.3	7.5	7.0	6.3	5.3	4.5	3.8
RSA-A-16-50-B	8.0	7.1	5.6	5.3	4.9	4.0	3.3	2.7
RSA-A-18-50-B	6.1	5.3	3.9	3.6	3.3	3.0	2.3	1.8
RSA-A-20-50-B	4.4	3.7	2.9	2.8	2.7	2.1	1.5	1.1
RSA-A-25-50-B	1.3	0.7	1.0	0.5	NR	NR	NR	NR
RSA-A-16-60-A	9.3	8.4	6.8	5.5	4.5	3.7	2.9	2.3
RSA-A-18-60-A	7.4	6.6	5.3	4.2	3.3	2.5	1.9	1.4
RSA-A-20-60-A	5.9	5.2	4.0	3.0	2.2	1.6	1.0	0.6
RSA-A-25-60-A	3.0	2.4	1.5	0.8	0.2	NR	NR	NR
RSA-A-18-60-C	16.5	15.0	12.4	10.4	8.7	7.4	6.2	5.2
RSA-A-20-60-C	13.8	12.5	10.3	8.5	7.0	5.8	4.8	4.0
RSA-A-25-60-C	9.0	8.0	6.3	4.9	3.8	2.9	2.1	1.5
RSA-A-30-60-C	5.6	4.8	3.5	2.4	1.5	0.8	NR	NR

PRODUCTS EXCEPTIONS & DETAILS (CONTINUED)

WIND-SPEED WEBSITE DISCLAIMER:

- Current Lighting has no connection to the linked website and makes no representations as to its accuracy. While the information presented on this third-party website provides a useful starting point for analyzing wind conditions, Hubbell Lighting has not verified any of the information on this third party website and assumes no responsibility or liability for its accuracy. The material presented in the windspeed website should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. Current Lighting does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this third party website assume all liability arising from such use. Use of the output of these referenced websites do not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed report. http://windspeed.atcouncil.org
- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Current Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. http://cdn.spauldinglighting.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings