architectural arealighting

RSSA Series Poles

ROUND STRAIGHT STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

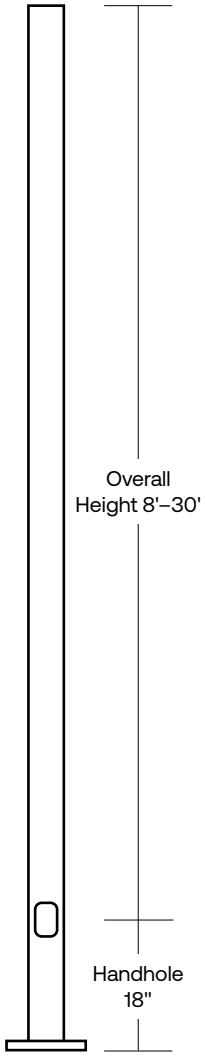
SPECIFICATIONS

CONSTRUCTION

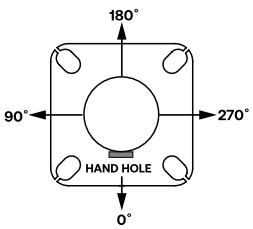
- Shaft: One-piece straight steel with round cross section, Minimum yield of 46,000 psi (ASTM-A500, Grade C); Longitudinal weld seam to appear flush in shaft wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- Base cover: Two-piece square aluminum base cover included standard
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- Hand hole: Rectangular 3x5 steel 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 leveling
  - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
1 x 36 x 4 — TAB-36-M38
- Super durable polyester-TGIC powder coat finish with nominal 3.0 mil thickness. Meets or exceeds AAMA 2604 standards.

INSTALLATION

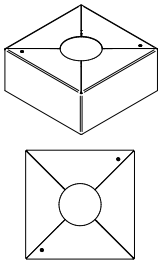
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



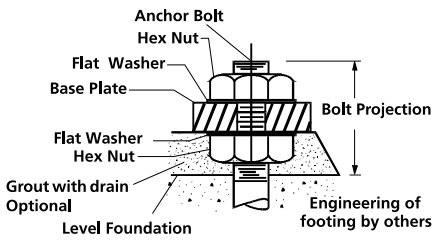
BASE



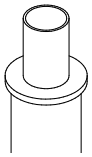
BASE COVER



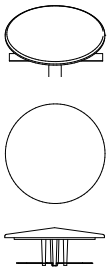
BASE DETAIL



TENON



POLE CAP



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RSSA Series Poles

ROUND STRAIGHT STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING INFORMATION

Example: RSSA20-50B-TA-DBS

RSSA – [Height] – [Shaft] – [Thickness] – [Mounting] – [Finish] – [Options]

Series

RSSA	Round Straight Steel Pole AAL

Height

Reference page 3 Ordering matrix

Shaft

Reference page 3 Ordering matrix

Thickness

Reference page 3 Ordering matrix

A - .125" Wall
B - .188" Wall
C - .250" Wall

Mounting

TA	Tenon (2.375" OD)
TB	Tenon (2.875" OD)
TC	Tenon (3.5" OD)
OT	Open Top (includes pole cap)

Finish

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGT	Light Grey Matte Textured
LGS	Light Grey Gloss Smooth
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC[1]	Custom Color

Options

GFI[2]	20 Amp GFCI Receptacle and Cover
EHH[2]	Extra Handhole
C05[2]	.5" Coupling
C07[2]	.75" Coupling
C20[2]	2" Coupling
MPB[2]	Mid-pole Luminaire Bracket
VM2[3]	2nd mode vibration dampener
LAB	Less Anchor Bolts
UL	UL Certified
RBC	Round Base Cover

Accessories (Order Separately)

- ☐ **VM2S08** Field-installed 2nd mode vibration dampener - 8 ft
- ☐ **VM2S12** Field-installed 2nd mode vibration dampener - 12 ft
- ☐ **VM2S16** Field-installed 2nd mode vibration dampener - 16 ft
- ☐ **VM2S20** Field-installed 2nd mode vibration dampener - 20 ft
- ☐ **VM2S25** Field-installed 2nd mode vibration dampener - 25 ft

1 Custom colors available; RAL number preferable
2 Specify option location using logic found on page 3 (Option Orientation)
3 There will be a weld witness mark on the side of the pole with the Factory installed VM2

RSSA Series Poles

ROUND STRAIGHT STEEL

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

ORDERING INFORMATION (CONTINUED)

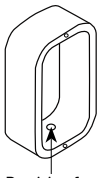
CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE (SUGGESTED)	BOLT CIRCLE (RANGE)	BASE PLATE SQUARE	BASE PLATE THICKNESS	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT
	FEET	METERS									
RSSA10-40A	10	3	4" round	0.125"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	52
RSSA12-40A	12	3.7	4" round	0.125"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	62
RSSA14-40A	14	4.3	4" round	0.125"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	72
RSSA16-40A	16	4.9	4" round	0.125"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	83
RSSA18-40A	18	5.5	4" round	0.125"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	93
RSSA20-40A	20	6.1	4" round	0.125"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	103
RSSA10-40B	10	3	4" round	0.188"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	77
RSSA12-40B	12	3.7	4" round	0.188"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	92
RSSA14-40B	14	4.3	4" round	0.188"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	107
RSSA16-40B	16	4.9	4" round	0.188"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	122
RSSA18-40B	18	5.5	4" round	0.188"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	138
RSSA20-40B	20	6.1	4" round	0.188"	9"	7.5" - 10"	9"	0.75"	3/4" x 30" x 3"	3.5"	153
RSSA10-50B	10	3	5" round	0.188"	10"	8.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	97
RSSA12-50B	12	3.7	5" round	0.188"	10"	8.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	116
RSSA14-50B	14	4.3	5" round	0.188"	10"	8.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	135
RSSA16-50B	16	4.9	5" round	0.188"	10"	8.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	155
RSSA18-50B	18	5.5	5" round	0.188"	10"	8.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	174
RSSA20-50B	20	6.1	5" round	0.188"	10"	8.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	194
RSSA25-50B	25	7.6	5" round	0.188"	10"	8.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	242
RSSA20-60C	20	6.1	6" round	0.250"	10"	9.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	307
RSSA25-60C	25	7.6	6" round	0.250"	10"	9.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	384
RSSA30-60C	30	9.1	6" round	0.250"	10"	9.0" - 11"	10.25"	1"	1" x 36" x 4"	4.5"	461

Notes:

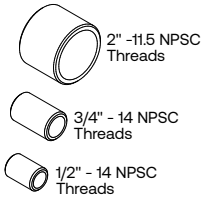
- Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.
- For more information about pole vibration and vibration dampeners, please consult factory.
- Unwrap poles immediately upon receipt to avoid condensation build up and possible corrosion.

[1] There will be a weld witness mark on the side of the pole with the Factory installed VM2.

EHH
Extra handhole



C05 / C07 / C20
Coupling



VM2[1]
2nd mode vibration dampener

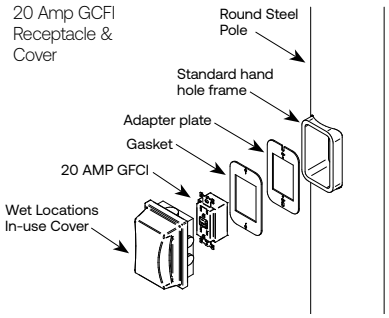
Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX
Field-installed 2nd mode vibration dampener

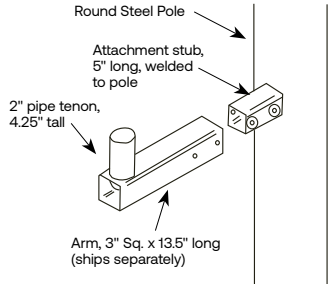
VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

Field installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI
20 Amp GCFI Receptacle & Cover



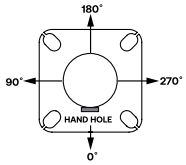
MPB
Mid Pole Bracket

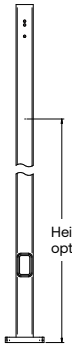


Option Orientation

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).

Example: Option C05 should be ordered as: RSSB20-40A-TA-DBT-C05-0-15 (.5" coupling on the handhole side of pole, 15' up from the pole base) 1' spacing required between option. Consult factory for other configurations.





RSSA Series Poles

ROUND STRAIGHT STEEL

DATE:	LOCATION:
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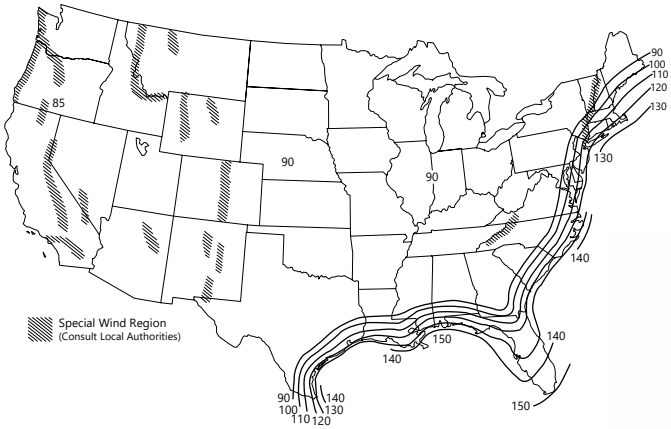
WIND MAPS

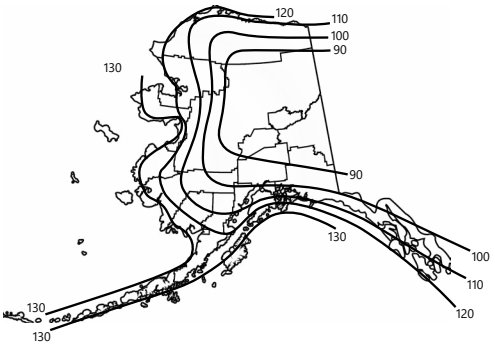
ASCE7-05 WIND MAP



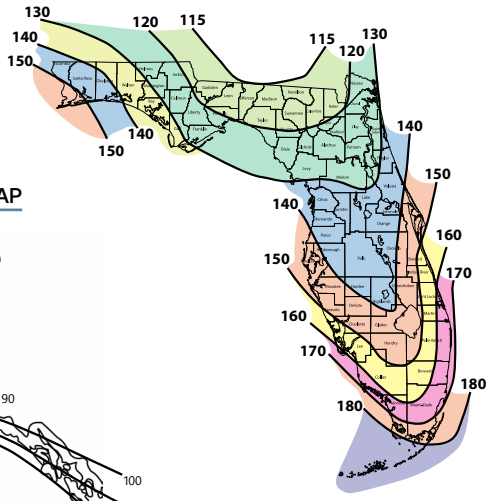
HAWAII – 105 mph
PUERTO RICO – 145 mph

*Printed with permission from ASCE

ALASKA REGION WIND MAP



FLORIDA REGION WIND MAP



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

ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)							
Catalog Number	85	90	100	110	120	105	145
RSSA10-40A	21.0	18.7	15.0	12.2	10.1	13.5	6.8
RSSA12-40A	16.8	14.8	11.8	9.5	7.7	10.5	5.1
RSSA14-40A	13.6	12.0	9.4	7.4	5.9	8.3	3.9
RSSA16-40A	11.1	9.7	7.5	5.8	4.5	6.6	2.9
RSSA18-40A	9.0	7.8	5.8	4.4	3.3	5.1	2.0
RSSA20-40A	7.2	6.2	4.5	3.1	2.2	3.8	1.2
RSSA10-40B	25.0	25.0	22.4	18.4	15.3	20.2	10.4
RSSA12-40B	25.0	22.3	17.9	14.5	12.0	16.1	8.1
RSSA14-40B	20.6	18.3	14.6	11.7	9.6	13.0	6.4
RSSA16-40B	17.2	15.2	12.0	9.5	7.7	10.7	5.1
RSSA18-40B	14.3	12.6	9.8	7.6	6.1	8.6	3.9
RSSA20-40B	11.8	10.3	7.9	6.0	4.7	6.9	2.9
RSSA10-50B	25.0	25.0	25.0	25.0	25.0	25.0	17.7
RSSA12-50B	25.0	25.0	25.0	24.8	20.8	25.0	14.3
RSSA14-50B	25.0	25.0	24.7	20.5	17.2	22.4	11.7
RSSA16-50B	25.0	25.0	20.7	17.1	14.3	18.8	9.7
RSSA18-50B	24.5	21.6	17.3	14.3	11.9	15.7	8.0
RSSA20-50B	20.6	18.1	14.4	11.8	9.8	13.0	6.5
RSSA25-50B	13.6	11.7	9.1	7.3	6.0	8.1	3.8
RSSA20-60C	25.0	25.0	25.0	25.0	21.5	25.0	14.8
RSSA25-60C	25.0	25.0	21.9	18.0	15.0	19.8	10.1
RSSA30-60C	21.8	19.4	15.6	12.7	10.6	14.1	6.9

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)								
Catalog Number	115	120	130	140	150	160	170	180
RSSA10-40A	25.0	23.5	20.0	17.0	14.5	12.5	11.0	10.0
RSSA12-40A	21.0	19.0	16.0	13.5	11.5	9.5	9.0	8.0
RSSA14-40A	17.5	15.7	13.0	10.8	9.0	7.5	7.0	6.5
RSSA16-40A	14.2	13.0	10.5	8.5	7.0	5.8	5.0	4.5
RSSA18-40A	11.6	10.4	8.2	6.8	5.4	4.4	4.0	3.6
RSSA20-40A	9.5	8.4	6.5	5.2	4.0	3.0	2.8	2.5
RSSA10-40B	25.0	25.0	25.0	22.0	19.0	16.5	15.2	13.4
RSSA12-40B	25.0	25.0	20.8	17.6	15.1	13.0	12.0	10.6
RSSA14-40B	22.5	20.4	17.2	14.4	12.2	10.4	10.0	8.8
RSSA16-40B	18.9	17.0	14.1	11.7	9.8	8.2	7.5	7.0
RSSA18-40B	15.6	14.1	11.5	9.4	7.7	6.4	6.0	5.7
RSSA20-40B	13.0	11.6	9.3	7.5	6.0	4.8	4.0	3.5
RSSA10-50B	25.0	25.0	25.0	25.0	25.0	23.6	20.8	18.4
RSSA12-50B	25.0	25.0	25.0	25.0	22.2	19.3	16.8	14.8
RSSA14-50B	25.0	25.0	23.9	21.5	18.4	15.9	13.8	12.1
RSSA16-50B	25.0	23.8	19.6	18.0	15.4	13.2	11.4	9.9
RSSA18-50B	21.8	19.6	16.1	15.1	12.8	10.8	9.3	8.0
RSSA20-50B	18.2	16.4	14.1	12.7	10.7	9.0	7.7	6.5
RSSA25-50B	11.7	10.2	9.4	8.4	6.8	5.6	4.5	3.7
RSSA20-60C	25.0	25.0	25.0	22.1	18.8	16.1	13.9	12.0
RSSA25-60C	24.7	22.4	18.4	15.3	12.8	10.8	9.1	7.6
RSSA30-60C	18.2	16.3	13.2	10.7	8.7	7.0	5.7	4.5

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

NOTES

Wind-speed Website disclaimer:
Current 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, Current 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 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.
- 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