

RSSB Series Poles

ROUND STRAIGHT STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

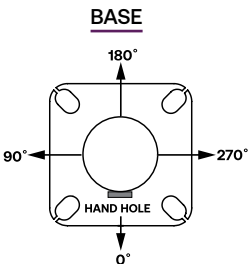
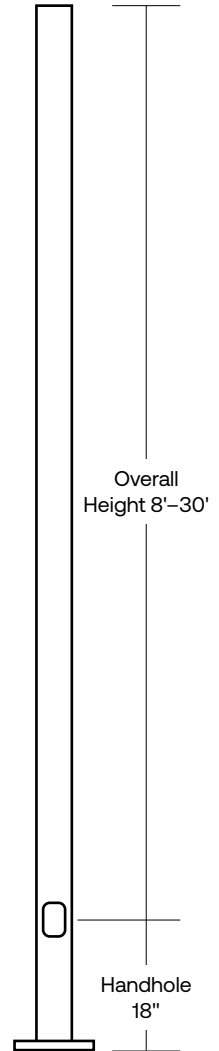
SPECIFICATIONS

CONSTRUCTION

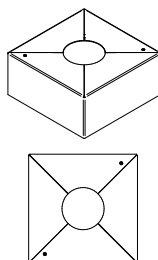
- Shaft: One-piece straight steel with round cross section, Minimum yield of 46,000 psi (ASTM-A500, Grade C); Longitudinal weld seam to appear flush in shaft wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- Base cover: Two-piece 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

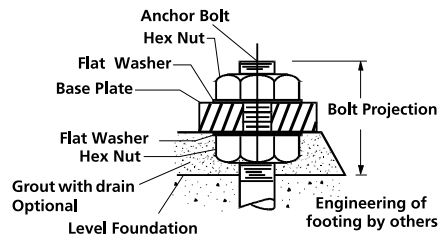
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



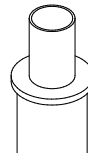
BASE COVER



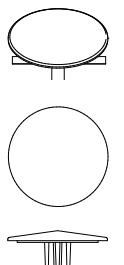
BASE DETAIL



TENON



POLE CAP



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ORDERING INFORMATION

Example: RSSB25-50B-1-B1-BLS

RSSB	Height	Shaft	Thickness	Mounting	Drill Pattern	Finish	Options
Series	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix				
RSSB Round Straight Steel Pole Beacon			A - .125" Wall B - .188" Wall C - .250" Wall	1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 3Y Three fixtures at 120° 4 Four fixtures at 90° TA Tenon (2.375" OD) TB Tenon (2.875" OD) TC Tenon (3.5" OD) OT Open Top (includes pole cap)	B1 Cruiser, "AM" arm B3 2 bolt (2-1/2" spacing), Viper "A" arm S2 2 bolt (3-1/2" spacing), Viper "AD" arm UDP Universal Drill Pattern	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 VG Verde Green Textured Color Option CC Custom Color ¹	GFI ² 20 Amp GFCI Receptacle and Cover EH 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

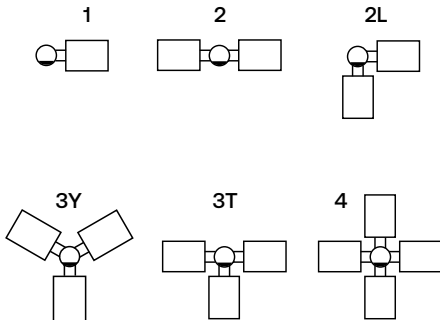
Accessories (Order Separately)

- ☐ **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

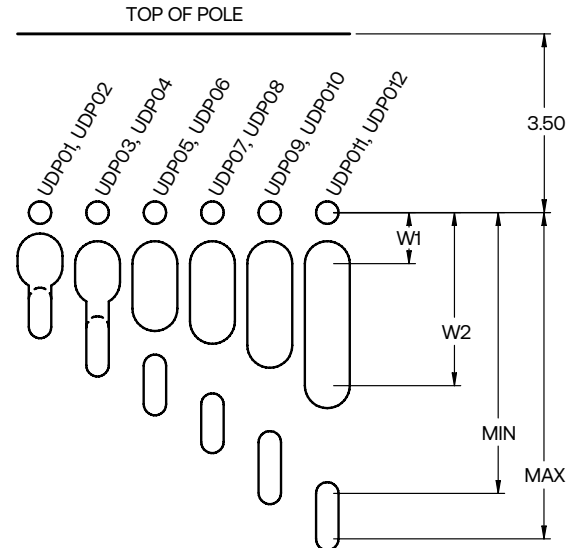
MOUNTING ORIENTATION

○ ← Denotes handhole location



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
3/8" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7/8" to 1/2"	UDP02	UDP04	UDP06	UDP08	UDP10	UDP12
"Min" Attachment Dimension	1.69	2.25	3.00	3.76	4.50	5.50
"Max" Attachment Dimension	2.24	2.99	3.75	4.49	5.49	6.00
W1 (Wireway min)	0.85	1.00	1.00	1.00	1.00	1.00
W2 (Wireway max)	1.05	1.36	1.88	2.13	2.60	3.00

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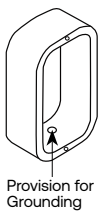
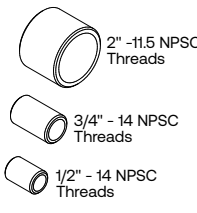
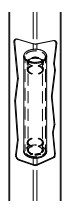

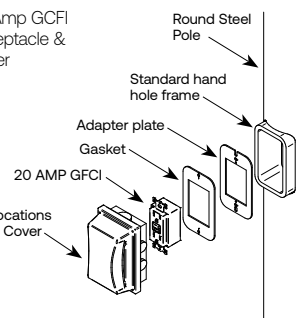
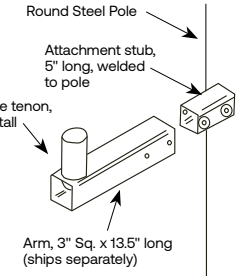
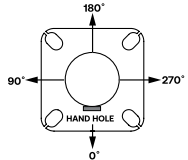

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ORDERING INFORMATION (CONTINUED)

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									
RSSB10-40A	10	3.0	4" round	0.125"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	52
RSSB12-40A	12	3.7	4" round	0.125"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	62
RSSB14-40A	14	4.3	4" round	0.125"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	72
RSSB16-40A	16	4.9	4" round	0.125"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	83
RSSB18-40A	18	5.5	4" round	0.125"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	93
RSSB20-40A	20	6.1	4" round	0.125"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	103
RSSB10-40B	10	3.0	4" round	0.188"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	77
RSSB12-40B	12	3.7	4" round	0.188"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	92
RSSB14-40B	14	4.3	4" round	0.188"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	107
RSSB16-40B	16	4.9	4" round	0.188"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	122
RSSB18-40B	18	5.5	4" round	0.188"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	138
RSSB20-40B	20	6.1	4" round	0.188"	9"	7.5" - 10"	9"	0.75	3/4" x 30" x 3"	3.5	153
RSSB10-50B	10	3.0	5" round	0.188"	10"	8.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	97
RSSB12-50B	12	3.7	5" round	0.188"	10"	8.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	116
RSSB14-50B	14	4.3	5" round	0.188"	10"	8.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	135
RSSB16-50B	16	4.9	5" round	0.188"	10"	8.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	155
RSSB18-50B	18	5.5	5" round	0.188"	10"	8.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	174
RSSB20-50B	20	6.1	5" round	0.188"	10"	8.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	193
RSSB25-50B	25	7.6	5" round	0.188"	10"	8.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	242
RSSB20-60C	20	6.1	6" round	0.250"	10"	9.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	307
RSSB25-60C	25	7.6	6" round	0.250"	10"	9.0" - 11"	10.25	1.0	1" x 36" x 4"	4.5	384
RSSB30-60C	30	9.1	6" round	0.250"	10"	9.0" - 11"	10.25	1.0	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.
 - There will be a weld witness mark on the side of the pole with the Factory installed VM2.

<p>EHH Extra handhole</p>  <p>Provision for Grounding</p>	<p>C05 / C07 / C20 Coupling</p>  <p>2" -11.5 NPSC Threads 3/4" - 14 NPSC Threads 1/2" - 14 NPSC Threads</p>	<p>VM2¹ 2nd mode vibration dampener</p>  <p>Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p>	<p>VM2SXX Field-installed 2nd mode vibration dampener</p>  <p>VM2S08 - 8' VM2S12 - 12' VM2S16 - 16' VM2S20 - 20' VM2S24 - 24'</p> <p>Field installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p>
<p>GFI 20 Amp GCFI Receptacle & Cover</p>  <p>Round Steel Pole Standard hand hole frame Adapter plate Gasket 20 AMP GCFI Wet Locations In-use Cover</p>	<p>MPB Mid Pole Bracket</p>  <p>Round Steel Pole Attachment stub, 5" long, welded to pole 2" pipe tenon, 4.25" tall Arm, 3" Sq. x 13.5" long (ships separately)</p>	<p>Option Orientation Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).</p> <p>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.</p>  <p>180° 90° 270° 0° HAND HOLE</p>  <p>Height of option in feet</p>	

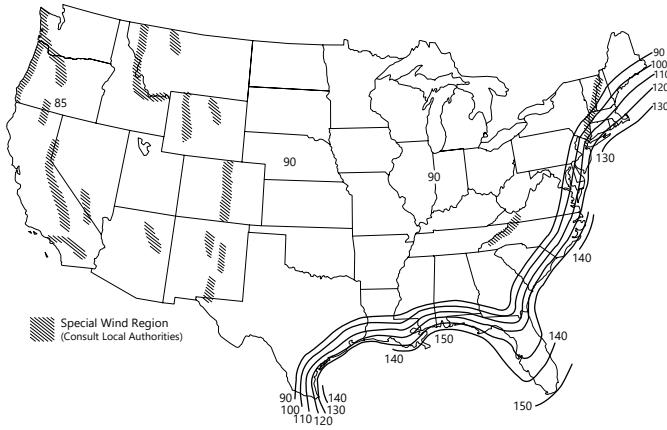
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WIND MAPS

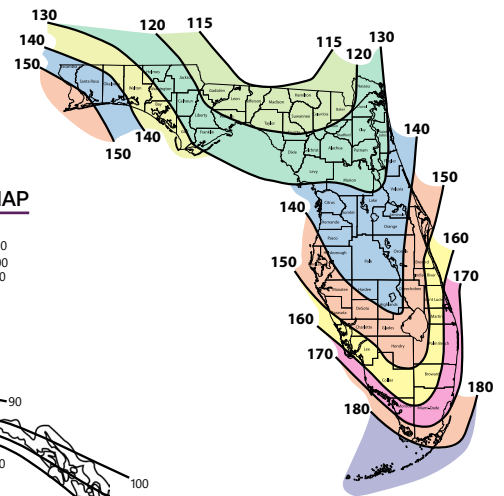
ASCE7-05 WIND MAP



HAWAII – 105 mph
PUERTO RICO – 145 mph

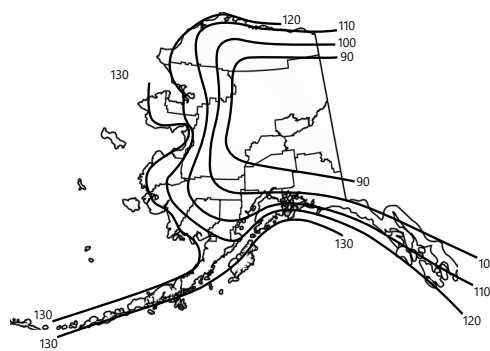
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FLORIDA REGION WIND MAP



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 (Use for all locations except Florida)							
Catalog Number	85	90	100	110	120	105	145
RSSB10-40A	21.0	18.7	15.0	12.2	10.1	13.5	6.8
RSSB12-40A	16.8	14.8	11.8	9.5	7.7	10.5	5.1
RSSB14-40A	13.6	12.0	9.4	7.4	5.9	8.3	3.9
RSSB16-40A	11.1	9.7	7.5	5.8	4.5	6.6	2.9
RSSB18-40A	9.0	7.8	5.8	4.4	3.3	5.1	2.0
RSSB20-40A	7.2	6.2	4.5	3.1	2.2	3.8	1.2
RSSB10-40B	25.0	25.0	22.4	18.4	15.3	20.2	10.4
RSSB12-40B	25.0	22.3	17.9	14.5	12.0	16.1	8.1
RSSB14-40B	20.6	18.3	14.6	11.7	9.6	13.0	6.4
RSSB16-40B	17.2	15.2	12.0	9.5	7.7	10.7	5.1
RSSB18-40B	14.3	12.6	9.8	7.6	6.1	8.6	3.9
RSSB20-40B	11.8	10.3	7.9	6.0	4.7	6.9	2.9
RSSB10-50B	25.0	25.0	25.0	25.0	25.0	25.0	17.7
RSSB12-50B	25.0	25.0	25.0	24.8	20.8	25.0	14.3
RSSB14-50B	25.0	25.0	24.7	20.5	17.2	22.4	11.7
RSSB16-50B	25.0	25.0	20.7	17.1	14.3	18.8	9.7
RSSB18-50B	24.5	21.6	17.3	14.3	11.9	15.7	8.0
RSSB20-50B	20.6	18.1	14.4	11.8	9.8	13.0	6.5
RSSB25-50B	13.6	11.7	9.1	7.3	6.0	8.1	3.8
RSSB20-60C	25.0	25.0	25.0	25.0	21.5	25.0	14.8
RSSB25-60C	25.0	25.0	21.9	18.0	15.0	19.8	10.1
RSSB30-60C	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
RSSB10-40A	25.0	23.5	20.0	17.0	14.5	12.5	11.0	10.0
RSSB12-40A	21.0	19.0	16.0	13.5	11.5	9.5	9.0	8.0
RSSB14-40A	17.5	15.7	13.0	10.8	9.0	7.5	7.0	6.5
RSSB16-40A	14.2	13.0	10.5	8.5	7.0	5.8	5.0	4.5
RSSB18-40A	11.6	10.4	8.2	6.8	5.4	4.4	4.0	3.6
RSSB20-40A	9.5	8.4	6.5	5.2	4.0	3.0	2.8	2.5
RSSB10-40B	25.0	25.0	25.0	22.0	19.0	16.5	15.2	13.4
RSSB12-40B	25.0	25.0	20.8	17.6	15.1	13.0	12.0	10.6
RSSB14-40B	22.5	20.4	17.2	14.4	12.2	10.4	10.0	8.8
RSSB16-40B	18.9	17.0	14.1	11.7	9.8	8.2	7.5	7.0
RSSB18-40B	15.6	14.1	11.5	9.4	7.7	6.4	6.0	5.7
RSSB20-40B	13.0	11.6	9.3	7.5	6.0	4.8	4.0	3.5
RSSB10-50B	25.0	25.0	25.0	25.0	25.0	23.6	20.8	18.4
RSSB12-50B	25.0	25.0	25.0	25.0	22.2	19.3	16.8	14.8
RSSB14-50B	25.0	25.0	23.9	21.5	18.4	15.9	13.8	12.1
RSSB16-50B	25.0	23.8	19.6	18.0	15.4	13.2	11.4	9.9
RSSB18-50B	21.8	19.6	16.1	15.1	12.8	10.8	9.3	8.0
RSSB20-50B	18.2	16.4	14.1	12.7	10.7	9.0	7.7	6.5
RSSB25-50B	11.7	10.2	9.4	8.4	6.8	5.6	4.5	3.7
RSSB20-60C	25.0	25.0	25.0	22.1	18.8	16.1	13.9	12.0
RSSB25-60C	24.7	22.4	18.4	15.3	12.8	10.8	9.1	7.6
RSSB30-60C	18.2	16.3	13.2	10.7	8.7	7.0	5.7	4.5

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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