

# RTSB Series Poles

ROUND TAPERED STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

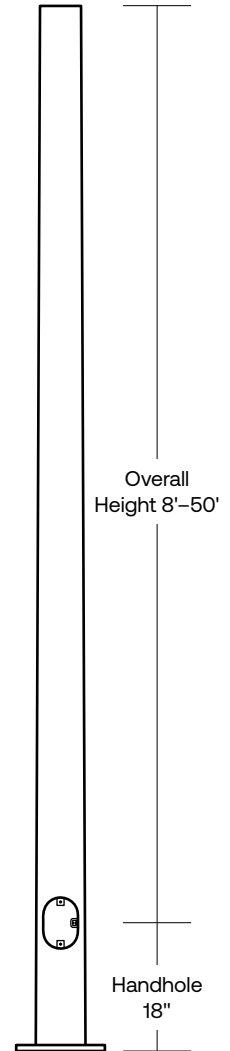
## SPECIFICATIONS

### CONSTRUCTION

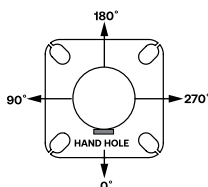
- Shaft: One-piece tapered steel with round cross section, Minimum yield of 55,000 psi; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36) Pole shafts taper at 0.14"/ft.
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- 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:  
  - Group 1: 1 X 36 X 4 — TAB-36-M38
  - Group 2: 3/4 X 30 X 3 — TAB-30-M38
  - Group 3: 1.25 X 42 X 6 - TAB-42-M38 AND 1 X 36 X 4 - TAB-36-M38
- Base cover:  
  - Group 1: Optional Square Base Cover (SBC), include option in ordering logic. If not selected, poles will be shipped with bolt covers only.
  - Group 2: Poles have triangle base and do not have base covers.
  - Group 3: Poles come standard with a Square Base Cover.
- Super Durable polyester-TGIC powder coat finish with nominal 3.0 mil thickness. Meets or exceeds AAMA 2604 standards

### INSTALLATION

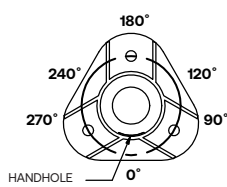
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



**BASE**

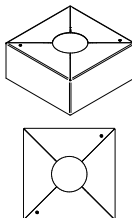


Group 1  
Group 3

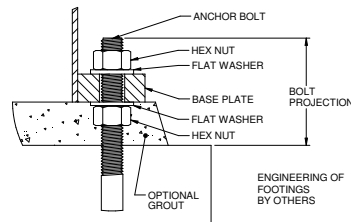


Group 2

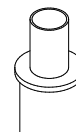
**BASE COVER<sup>1</sup>**



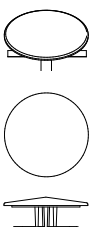
**BASE DETAIL**



**TENON**



**POLE CAP**



# RTSB Series Poles

ROUND TAPERED STEEL

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

## ORDERING INFORMATION

Example: RTSB30-80B-1-B1-BLT

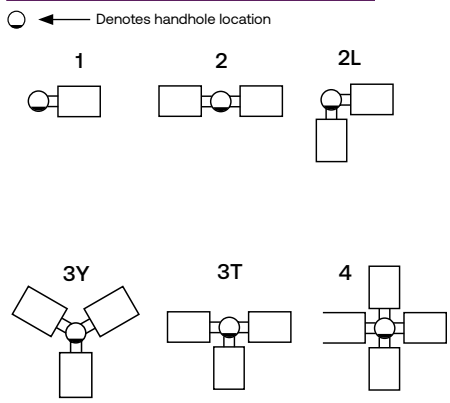
RTSB Series	Height	Shaft	Thickness	Mounting	Drill Pattern	Finish	Options
RTSB Round Tapered Steel Pole Beacon	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix A - .125" Wall B - .188" Wall	<b>1</b> Single arm mount <b>2</b> Two fixtures at 180° <b>2L</b> Two fixtures at 90° <b>3T</b> Three fixtures at 90° <b>3Y</b> Three fixtures at 120° <b>4</b> Four fixtures at 90° <b>TA</b> Tenon (2.375" OD) <b>OT</b> Open Top (includes pole cap)	<b>B1</b> Cruiser, "AM" arm <b>B3</b> 2 bolt (2-1/2" spacing), Viper "A" arm <b>S2</b> 2 bolt (3-1/2" spacing), Viper "AD" arm <b>UDP</b> Universal Drill Pattern	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Bronze Gloss Smooth <b>GTT</b> Graphite Matte Textured <b>LGT</b> Light Grey Matte Textured <b>LGS</b> Light Grey Gloss Smooth <b>PSS</b> Platinum Silver Smooth <b>WHT</b> White Matte Textured <b>WHS</b> White Gloss Smooth <b>VG</b> Verde Green Textured <b>Color Option</b> <b>CC</b> Custom Color <sup>1</sup>	<b>GFI</b> <sup>2</sup> 20 Amp GFCI Receptacle and Cover <b>EHH</b> <sup>2</sup> Extra Handhole <b>C05</b> <sup>2</sup> .5" Coupling <b>C07</b> <sup>2</sup> .75" Coupling <b>C20</b> <sup>2</sup> 2" Coupling <b>MPB</b> <sup>2,3</sup> Mid-pole Luminaire Bracket <b>VM2</b> 2nd mode vibration dampener <b>LAB</b> Less Anchor Bolts <b>UL</b> UL Certified <b>SBC</b> <sup>4</sup> Square 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

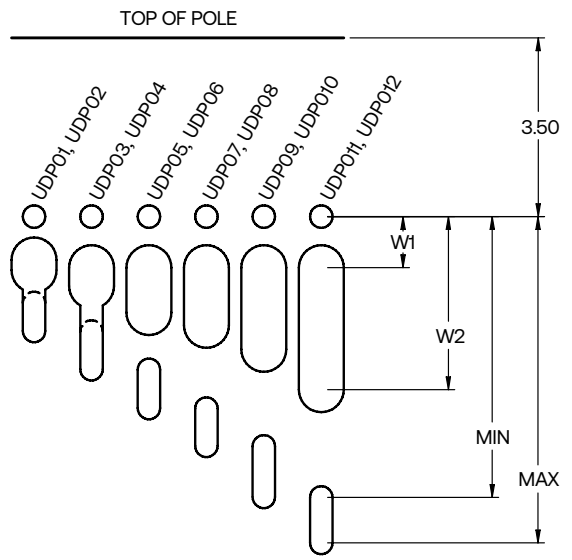
- 1 Custom colors available; RAL number preferable
- 2 Specify option location using logic found on page 3 (Option Orientation)
- 3 Not available on the following poles: 20ft 6" .188, 25ft 7" .188, 30ft, 8" .188, 35ft 9.5" .125
- 4 Specify if needed for group 1 poles. Not available with Group 2 poles

## MOUNTING ORIENTATION



## 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

## ORDERING INFORMATION (CONTINUED)

CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE	BOLT CIRCLE (RANGE)	BASE PLATE SQUARE	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT
	FEET	METERS								
Group 1										
RTSB20-65A	20	6.1	6.5" x 3.7"	.119"	10"	9.5" - 13.0"	12.5" - Square	1" x 36" x 4"	4.25"	187
RTSB25-70A	25	7.6	7.0" x 3.5"	.119"	11"	10" - 13.0"	12.5" - Square	1" x 36" x 4"	4.25"	226
RTSB30-80A	30	9.1	8.0" x 3.8"	.119"	12"	11" - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	290
RTSB35-85A	35	10.7	8.5" x 3.6"	.119"	13"	11.5" - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	340
RTSB39-90A	39	11.9	9.0" x 3.5"	.119"	13"	12.5" - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	382
Group 2										
RTSB10-50A	10	3	4.4" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	60
RTSB12-50A	12	3.7	4.7" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	70
RTSB14-50A	14	4.3	5.0" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	80
RTSB16-50A	16	4.9	5.2" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	95
RTSB18-50A	18	5.5	5.5" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	110
RTSB20-60A	20	6.1	5.8" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	125
Group 3										
RTSB25-70B	25	7.6	7.0" x 3.5"	.179"	10.0"	9.5 - 10.5"	10.88" - Square	1" x 36" x 4"	4.25"	280
RTSB30-80B	30	9.1	8.0" x 3.8"	.179"	11.0"	10.5 - 11.5"	11.5" - Square	1.25" x 42" x 6"	5.0"	380
RTSB35-95A	35	10.7	9.5" x 4.6"	.119"	13.0"	12.5 - 13.5"	13.0" - Square	1" x 36" x 4"	4.25"	370
RTSB40-90A	40	12.2	9.0" x 3.6"	.119"	12.5"	12 - 13.0"	12.38" - Square	1" x 36" x 4"	4.25"	355
RTSB40-90B	40	12.2	9.0" x 3.6"	.179"	12.5"	12 - 13.0"	12.38" - Square	1.25" x 42" x 6"	5.0"	515
RTSB45-10A	45	13.7	10.0" x 3.7"	.119"	13.5"	13 - 14.0"	14.0" - Square	1" x 36" x 4"	4.25"	450
RTSB50-10A	50	15.2	10.0" x 3.0"	.119"	13.5"	13 - 14.0"	14.0" - Square	1" x 36" x 4"	4.25"	475
RTSB50-10B	50	15.2	10.0" x 3.0"	.179"	13.5"	13 - 14.0"	14.0" - Square	1.25" x 42" x 6"	5.0"	680

- 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><b>EHH</b> Extra handhole</p> <p>Provision for Grounding</p>	<p><b>C05 / C07 / C20</b> Coupling</p> <p>2" -11.5 NPSC Threads 3/4" - 14 NPSC Threads 1/2" - 14 NPSC Threads</p>	<p><b>VM2 †</b> 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><b>VM2SXX</b> 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><b>GFI</b> 20 Amp GCFI Receptacle &amp; Cover</p>		<p><b>MPB</b> Mid Pole Bracket</p>	<p><b>Option Orientation</b></p> <p>Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).</p> <p><b>Example:</b> Option C05 should be ordered as: RTSB20-65A-TA-DB-C05-0-15 (.5" coupling on the handhole side of pole, 15' up from the pole base) † spacing required between option. Consult factory for other configurations.</p>

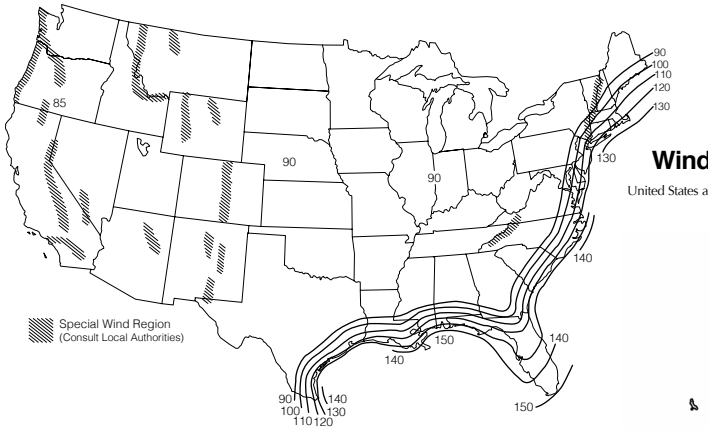
# RTSB Series Poles

ROUND TAPERED STEEL

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

## WIND MAPS

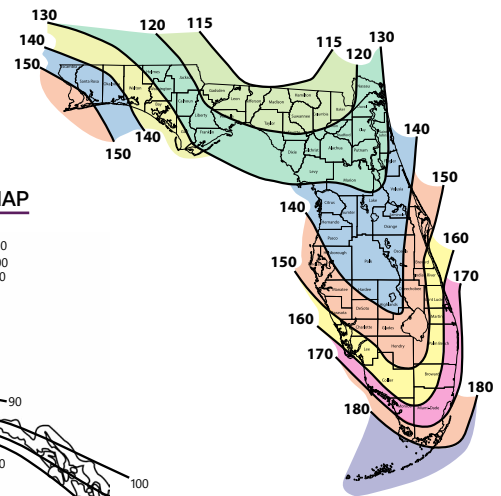
**ASCE7-05 WIND MAP**



**HAWAII – 105 mph**  
**PUERTO RICO – 145 mph**

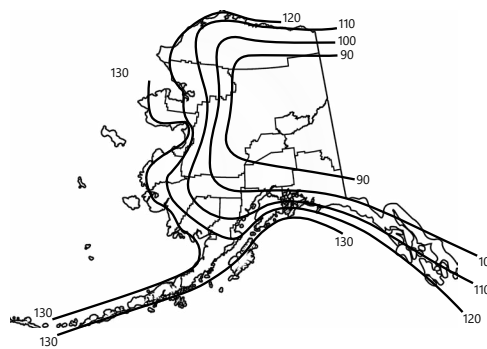
\*Printed with permission from ASCE

**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 (Use for all locations except Florida)									
Catalog Number	Height	85	90	100	110	120	130	140	150
RTSB20-65A	200	231	215	174	144	100	8.3	7.0	6.0
RTSB25-70A	250	212	179	145	118	75	6.0	5.1	4.3
RTSB30-80A	300	195	152	121	98	71	5.8	4.8	3.9
RTSB35-85A	350	149	127	100	8.7	5.3	4.2	3.3	2.6
RTSB39-90A	390	134	106	8.3	6.5	4.5	3.3	2.4	1.8
RTSB10-50A	100	22.0	21.5	17.4	14.4	12.0	10.1	8.7	7.5
RTSB12-50A	120	18.8	17.9	14.5	11.8	9.8	8.2	7.0	6.0
RTSB14-50A	140	17.7	15.2	12.1	9.8	8.1	6.7	5.6	4.8
RTSB16-50A	160	16.5	12.7	10.0	8.0	6.5	5.4	4.5	3.8
RTSB18-50A	180	14.0	10.6	8.3	6.5	5.2	4.2	3.5	2.9
RTSB20-60A	200	12.1	8.9	6.8	5.3	4.1	3.3	2.6	2.2
RTSB25-70B	250	25.0	22.6	18.1	14.7	12.2	10.3	8.8	7.6
RTSB30-80B	300	25.0	25.0	25.0	21.6	18.1	15.4	13.2	11.4
RTSB35-95A	350	20.0	17.7	14.1	11.5	9.4	7.8	6.5	5.4
RTSB40-90A	400	15.5	13.6	10.6	8.3	6.7	5.4	4.4	3.6
RTSB40-90B	400	25.0	25.0	20.2	16.5	13.7	11.4	9.7	8.2
RTSB45-10A	450	12.4	10.8	8.1	6.1	4.8	3.7	2.9	2.1
RTSB50-10A	500	9.5	8.2	5.8	4.2	2.9	2.0	1.2	0.7
RTSB50-10B	500	19.2	17.4	13.6	10.7	8.5	6.9	5.5	4.4

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
RTSB20-65A	25.0	25.0	25.0	21.5	18.3	15.7	13.6	11.9
RTSB25-70A	25.0	23.0	19.2	16.1	13.6	11.5	9.8	8.4
RTSB30-80A	21.1	19.0	15.5	12.8	10.6	8.8	7.3	6.0
RTSB35-85A	17.1	15.3	12.3	9.9	8.0	6.4	5.1	4.0
RTSB39-90A	15.4	13.7	10.8	8.6	6.7	5.2	4.0	3.0
RTSB10-50A	21.8	20.2	17.2	14.7	12.7	11.2	9.7	8.7
RTSB12-50A	17.4	16.7	14.2	12.2	10.5	9.0	8.0	7.0
RTSB14-50A	15.0	14.2	12.0	10.0	8.7	7.5	6.5	5.7
RTSB16-50A	12.2	11.7	9.7	8.2	7.0	6.0	5.2	4.5
RTSB18-50A	11.1	9.7	8.0	6.7	5.5	4.7	4.0	3.5
RTSB20-60A	9.2	8.2	6.7	5.5	4.5	3.7	3.0	2.5
RTSB25-70B	25.0	21.1	17.8	15.2	13.1	11.4	10.0	8.9
RTSB30-80B	25.0	30.2	25.7	22.2	19.4	17.0	15.0	13.4
RTSB35-95A	20.0	16.5	13.9	11.8	10.1	8.7	7.6	6.5
RTSB40-90A	15.5	12.6	10.4	8.6	7.3	6.1	5.2	4.5
RTSB40-90B	25.0	23.5	19.9	17.0	14.6	12.7	11.1	9.8
RTSB45-10A	12.4	9.9	8.0	6.5	5.3	4.3	3.5	2.9
RTSB50-10A	9.5	7.4	5.7	4.4	3.3	2.4	1.8	1.2
RTSB50-10B	19.2	16.1	13.3	11.1	9.3	7.8	6.6	5.6



# RTSB Series Poles

ROUND TAPERED STEEL

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