

# RTA-B SERIES POLES

ROUND TAPERED ALUMINUM

Cat.#	
Job	Type



Approvals

### 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 tapered aluminum with round cross section, made of 6061-T6 shaft and 356-T6 cast aluminum base

#### GROUP 1

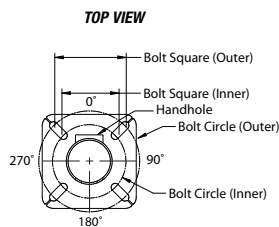
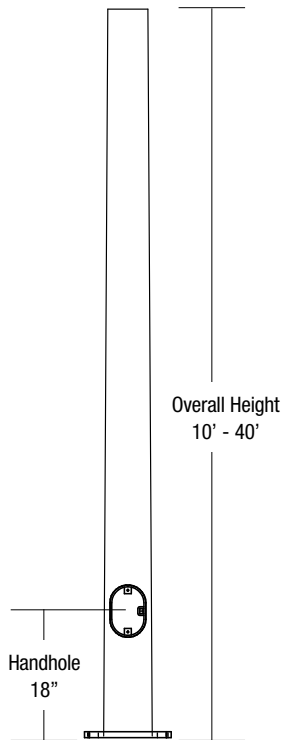
- ANCHOR BOLTS: Supplied with (3) galvanized anchor bolts with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling. Top nut is acorn nut.
- POLE CAP: 3" pole top standard; Supplied with removable cover when applicable; Tenon configurations also available
- HANDHOLE: 2" X 4" handhole opening with cover grounding provision provided opposite handhole opening. The handhole is located 18" from the base of the pole.

#### GROUP 2

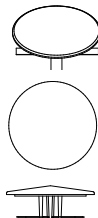
- ANCHOR BOLTS: Supplied with (4) galvanized anchor bolts with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
- BOLT COVER: Four individual bolt covers provided
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HANDHOLE: 4" X 6" handhole opening with cover and grounding provision handhole 3" x 5" for 20' pole. The handhole is located 18" from the base of the pole.

### FINISH

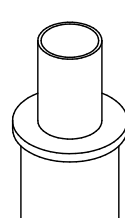
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Decorative finish coat available in six standard colors; Custom colors available, RAL number preferred



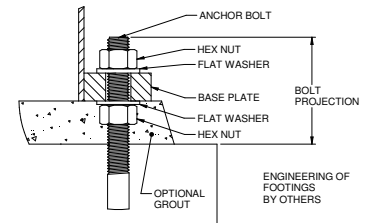
### POLE CAP



### TENON



### BASE DETAIL



## ORDERING INFORMATION

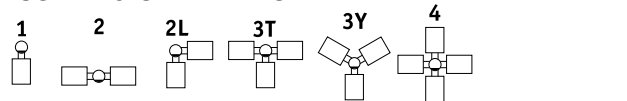
ORDERING EXAMPLE:

**RTA - B - 20 - 60 - B - 2 - B3 - DB - VM2**

Reference page 2 for available configurations

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	DRILL PATTERN	FINISH	OPTIONS
<b>RTA-B</b> Round Tapered Aluminum Pole Beacon	Reference page 2 Ordering matrix	Bottom O.D. Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	<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>TB</b> Tenon (2.875" OD) <b>TC</b> Tenon (3.5" OD) <b>OT</b> Open Top (includes pole cap)	<b>B1</b> Cruzer, "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>DB</b> Dark Bronze Textured <b>BBT</b> Basic Black Textured <b>BL</b> Black Textured <b>BZT</b> Bronze Textured <b>WH</b> White Textured <b>PS</b> Platinum Silver Smooth <b>GT</b> Graphite Textured <b>GYS</b> Gray Smooth <b>CC</b> Custom Color	<b>GFI</b> 20 Amp GFCI Receptacle and Cover <b>EHH</b> Extra Handhole <b>C05</b> .5" Coupling <b>C07</b> .75" Coupling <b>C20</b> 2" Coupling <b>VM2</b> 2nd mode vibration damper <b>LAB</b> Less Anchor Bolts

### MOUNTING ORIENTATION



### ACCESSORIES- Order Separately

Catalog Number	Description
<b>VM2SXX</b>	2nd mode vibration damper

1 Specify option location using logic found on page 2 (**Option Orientation**)

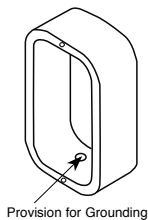


## ORDERING INFORMATION Cont.

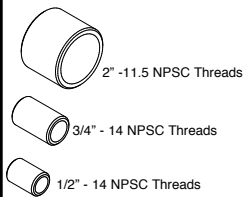
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle	Bolt Circle Range	Base Plate Size	Base Plate Shape	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters									
<b>Group 1</b>											
RTA-B-10-40-A	10	3.0	4" x 3"	.125"	7"	-	7.25	Triangular	3/4x17x3"	3.25"	24
RTA-B-12-40-A	12	3.7	4" x 3"	.125"	7"	-	7.25	Triangular	3/4x17x3"	3.25"	27
RTA-B-14-40-A	14	4.3	4" x 3"	.125"	7"	-	7.25	Triangular	3/4x17x3"	3.25"	32
RTA-B-16-50-A	16	4.9	5" x 3"	.125"	8"	-	8.31	Triangular	3/4x17x3"	3.25"	35
RTA-B-18-50-A	18	5.5	5" x 3"	.125"	8"	-	8.31	Triangular	3/4x17x3"	3.25"	42
RTA-B-20-50-A	20	6.1	5" x 3"	.125"	8"	-	8.31	Triangular	3/4x17x3"	3.25"	47
<b>Group 2</b>											
RTA-B-20-60-B	20	6.1	6" x 4"	.188"	9.5"	9 - 10"	9.75	Square	1" x 36" x 4"	4.25"	90
RTA-B-25-70-B	25	7.6	7" x 4"	.188"	11"	10 - 11"	10.5	Square	1" x 36" x 4"	4.25"	120
RTA-B-30-80-B	30	9.1	8" x 4.5"	.188"	11"	11 - 12"	11.25	Square	1" x 36" x 4"	4.25"	150
RTA-B-35-80-C	35	10.7	8" x 4.5"	.250"	11"	11 - 12"	11.25	Square	1" x 36" x 4"	4.25"	205
RTA-B-40-80-C	40	12.2	8" x 4.5"	.250"	11"	11 - 12"	11.25	Square	1" x 36" x 4"	4.25"	260

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

### EHH - EXTRA HANDHOLE



### C05 - C07 - C20 - COUPLING



### VM2 - VIBRATION DAMPER 2ND MODE (GROUP 2 ONLY)



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

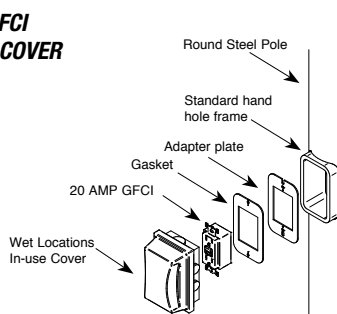
### VM2SXX - VIBRATION DAMPER 2ND MODE (GROUP 2 ONLY)



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

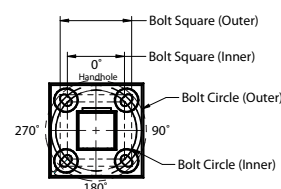
Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

### GFI - 20 AMP GFCI RECEPTACLE & COVER



### 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: **RTA-B-20-60-B-0T-DB-C05-0-15** (.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.



\* Group 2 & 3 poles  
Receptacle ordered separately

For more information about pole vibration and vibration dampers, please consult [http://cdn.hubbelloutdoor.com/content/products/literature/literature\\_files/Pole\\_Wind\\_Induced\\_Flyer\\_HL010022.pdf](http://cdn.hubbelloutdoor.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HL010022.pdf)  
Due to our continued efforts to improve our products, product specifications are subject to change without notice.



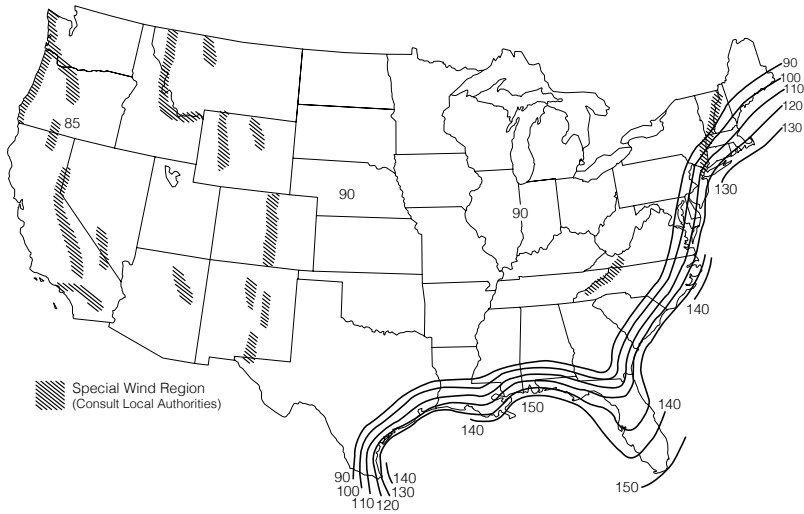
Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

© 2018 BEACON PRODUCTS, All Rights Reserved • For more information visit our website: [www.beaconproducts.com](http://www.beaconproducts.com) • Printed in USA RTA-B POLES-SPEC 07/19



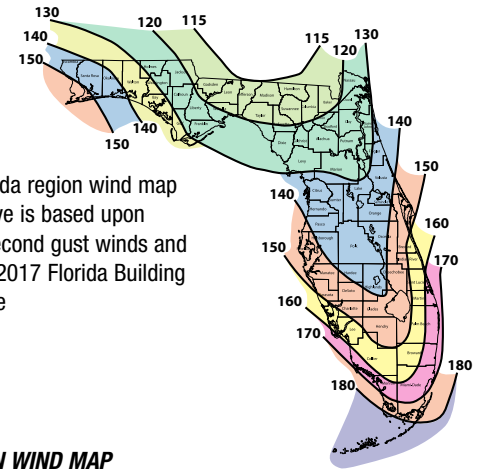
# ASCE7-05 WIND MAP



\*PRINTED WITH PERMISSION FROM ASCE

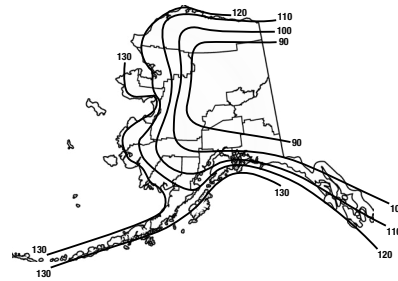
HAWAII – 105 mph  
 PUERTO RICO – 145 mph

# 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	Height	85	90	100	110	120	130	140	150
<b>Group 1</b>									
RTA-B-10-40-A	10	11.4	10.0	7.8	6.2	5.0	4.0	3.4	2.8
RTA-B-12-40-A	12	9.0	7.8	6.0	4.6	3.6	2.8	2.2	1.8
RTA-B-14-40-A	14	7.0	6.0	4.4	3.4	2.4	1.8	1.4	1.0
RTA-B-16-50-A	16	9.8	8.6	6.4	4.8	3.8	3.0	2.4	2.0
RTA-B-18-50-A	18	8.0	6.8	4.8	3.6	2.8	2.0	1.6	1.2
RTA-B-20-50-A	20	6.2	5.2	3.6	2.4	1.8	1.2	nr	nr
<b>Group 2</b>									
RTA-B-20-60-B	20	15.0	12.8	9.9	7.8	6.2	5.0	4.2	3.5
RTA-B-25-70-B	25	14.5	12.5	9.4	7.2	5.5	4.5	3.7	3.0
RTA-B-30-80-B	30	13.9	11.8	8.7	6.6	5.2	4.1	3.3	2.6
RTA-B-35-80-C	35	12.8	10.5	7.6	5.6	4.3	3.4	2.6	1.9
RTA-B-40-80-C	40	8.6	6.9	4.4	2.8	1.9	1.2	nr	nr

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds								
Catalog Number	115	120	130	140	150	160	170	180
<b>Group 1</b>								
RTA-B-10-40-A	10.2	9.2	7.6	6.4	5.4	4.6	3.8	3.4
RTA-B-12-40-A	8.0	7.0	5.8	4.8	4.0	3.2	2.6	2.2
RTA-B-14-40-A	6.2	5.4	4.4	3.6	2.8	2.2	1.8	1.4
RTA-B-16-50-A	8.8	7.8	6.2	5.2	4.2	3.4	2.8	2.4
RTA-B-18-50-A	6.8	6.0	4.8	3.8	3.0	2.4	2.0	1.6
RTA-B-20-50-A	5.4	4.6	3.4	2.6	2.0	1.6	1.2	nr
<b>Group 2</b>								
RTA-B-20-60-B	10.2	9.0	8.8	7.3	6.0	4.9	4.0	3.3
RTA-B-25-70-B	11.7	10.5	8.4	6.8	5.4	4.4	3.5	2.7
RTA-B-30-80-B	11.2	9.9	7.8	6.1	4.7	3.5	2.6	1.8
RTA-B-35-80-C	10.6	9.3	7.1	5.4	4.0	2.9	1.9	1.1
RTA-B-40-80-C	7.5	6.4	4.5	3.1	1.9	1.0	nr	nr

## NOTES

- 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 2017 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 Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. [http://cdn.hubbelloutdoor.com/content/products/literature/literature\\_files/Pole\\_Wind\\_Induced\\_Flyer\\_HL010022.pdf](http://cdn.hubbelloutdoor.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HL010022.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

Due to our continued efforts to improve our products, product specifications are subject to change without notice.



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

© 2018 BEACON PRODUCTS, All Rights Reserved • For more information visit our website: [www.beaconproducts.com](http://www.beaconproducts.com) • Printed in USA RTA-B POLES-SPEC 07/19

