



Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Notes \_\_\_\_\_

### APPLICATIONS

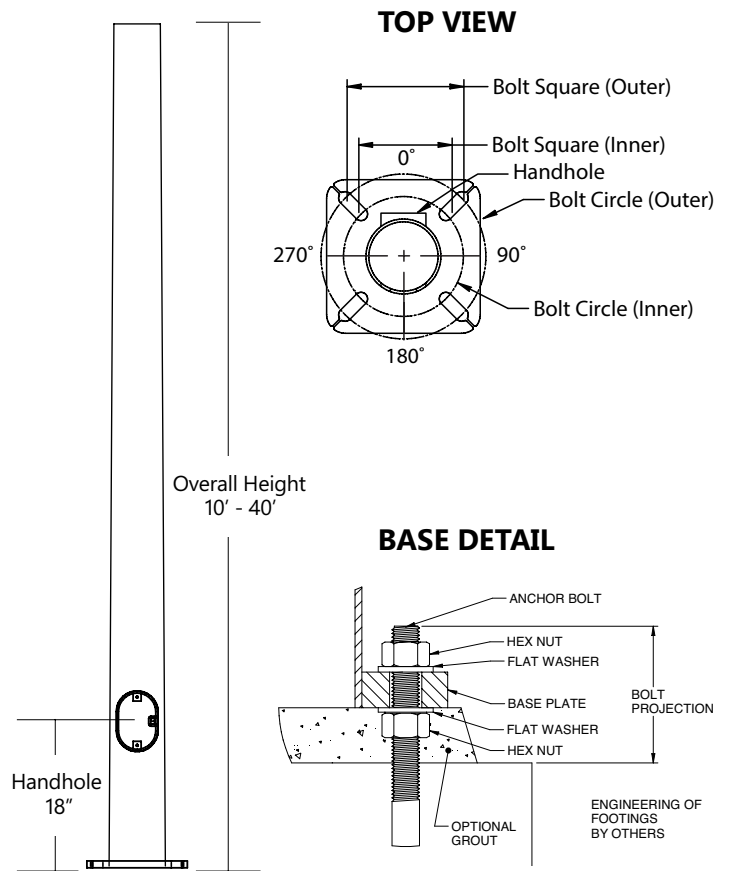
Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location.

### CONSTRUCTION

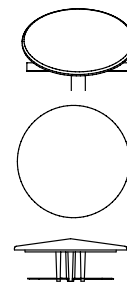
<b>Shaft:</b>	One-piece tapered aluminum with round cross section, made of 6061-T6 shaft and 356-T6 cast aluminum base
<b>Base Cover:</b>	Two-piece square aluminum base cover included standard
<b>GROUP 1</b>	
<b>Anchor Bolts:</b>	Supplied with (3) galvanized anchor bolts with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling. Top nut is acorn nut
<b>Pole Cap:</b>	3" pole top standard; Supplied with removable cover when applicable; Tenon configurations also available
<b>Hand Hole:</b>	2" X 4" handhole opening with cover grounding provision provided opposite handhole opening. The handhole is located 18" from the base of the pole.
<b>GROUP 2</b>	
<b>Anchor Bolts:</b>	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
<b>Bolt Cover:</b>	Four individual bolt covers provided
<b>Pole Cap:</b>	Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
<b>Hand Hole:</b>	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

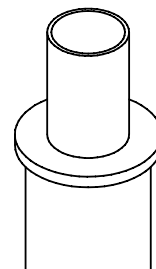
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Decorative finish coat available in three standard colors; Custom colors available; RAL number preferable



### POLE CAP



### TENON



## RTA-E Series Poles

Round | Tapered | Aluminum

Ordering Information

Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Notes \_\_\_\_\_


**Example:** RTA-E-20-60-B-2-DKBZ-VM2

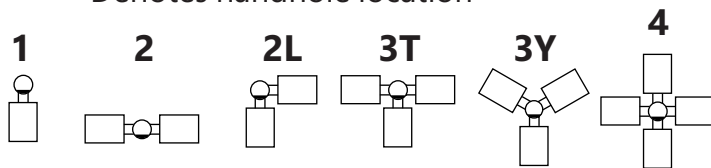
### RTA-E

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	FINISH	OPTIONS
RTA-E = Evolve Round Tapered Aluminum Pole	Reference page 3 Ordering Guide	Reference page 3 Ordering Guide	Reference page 3 Ordering Guide	<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> = No drilling (includes pole cap)	<b>DKBZ</b> = Dark Bronze <b>BLCK</b> = Black <b>GRAY</b> = Gray <i>* Contact factory for custom color options</i>	<b>GFI</b> <sup>1</sup> = 20 Amp GFCI Receptacle and Cover <b>EHH</b> <sup>1</sup> = Extra Handhole <b>C05</b> <sup>1</sup> = 0.5" Coupling <b>C07</b> <sup>1</sup> = 0.75" Coupling <b>C20</b> <sup>1</sup> = 2" Coupling <b>VM2</b> = 2nd mode vibration damper <b>LAB</b> = Less Anchor Bolts

<sup>1</sup> Specify option location using MOUNTING ORIENTATION logic shown below

### MOUNTING ORIENTATION

 Denotes handhole location



### ACCESSORIES- ORDER SEPARATELY

CATALOG NUMBER	DESCRIPTION
VM2SXX*	2nd mode vibration damper

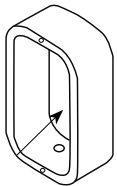
\* XX = 08 for 8', 12 for 12', 15 for 16', 20 for 20', and 24' for 24'

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-E-10-40-A	10	3.0	4" x 3"	0.125"	7"	-	7.25"	Triangular	3/4"x17"x3"	3.25"	24
RTA-E-12-40-A	12	3.7	4" x 3"	0.125"	7"	-	7.25"	Triangular	3/4"x17"x3"	3.25"	27
RTA-E-14-40-A	14	4.3	4" x 3"	0.125"	7"	-	7.25"	Triangular	3/4"x17"x3"	3.25"	32
RTA-E-16-50-A	16	4.9	5" x 3"	0.125"	8"	-	8.31"	Triangular	3/4"x17"x3"	3.25"	35
RTA-E-18-50-A	18	5.5	5" x 3"	0.125"	8"	-	8.31"	Triangular	3/4"x17"x3"	3.25"	42
RTA-E-20-50-A	20	6.1	5" x 3"	0.125"	8"	-	8.31"	Triangular	3/4"x17"x3"	3.25"	47
<b>GROUP 2</b>											
RTA-E-20-60-B	20	6.1	6" x 4"	0.188"	9.5"	9"-10"	9.75"	Square	1"x36"x4"	4.25"	90
RTA-E-25-70-B	25	7.6	7" x 4"	0.188"	11"	10"-11"	10.5"	Square	1"x36"x4"	4.25"	120
RTA-E-30-80-B	30	9.1	8" x 4.5"	0.188"	11"	11"-12"	11.25"	Square	1"x36"x4"	4.25"	150
RTA-E-35-80-C	35	10.7	8" x 4.5"	0.250"	11"	11"-12"	11.25"	Square	1"x36"x4"	4.25"	205
RTA-E-40-80-C	40	12.2	8" x 4.5"	0.250"	11"	11"-12"	11.25"	Square	1"x36"x4"	4.25"	260

**NOTES:**

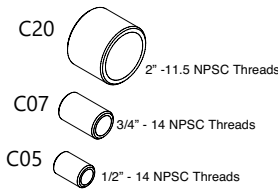
1. Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

**EHH EXTRA HANDHOLE**

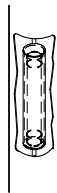


Provision for Grounding

**C05 - C07 - C20 - COUPLING**



**VM2 - VIBRATION DAMPER 2ND MODE**



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

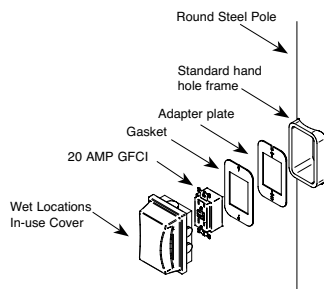
**VM2SXX - VIBRATION DAMPER 2ND MODE**



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

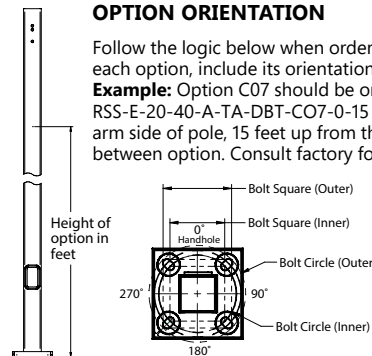
Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

**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 C07 should be ordered as: RSS-E-20-40-A-TA-DBT-C07-0-15 (.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.



## RTA-E Series Poles

Round | Tapered | Aluminum

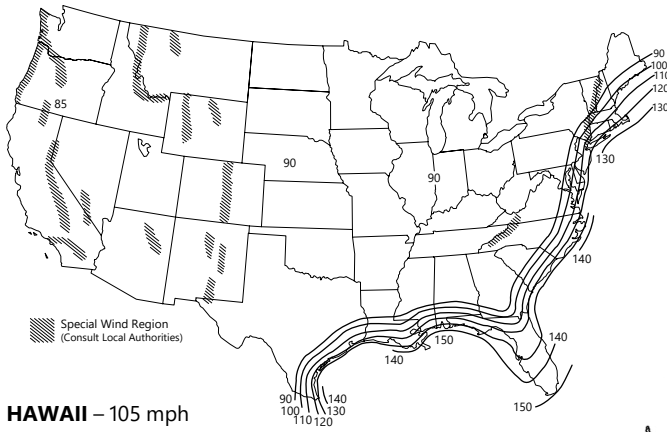
EPA Load Rating - Wind Maps

Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Notes \_\_\_\_\_

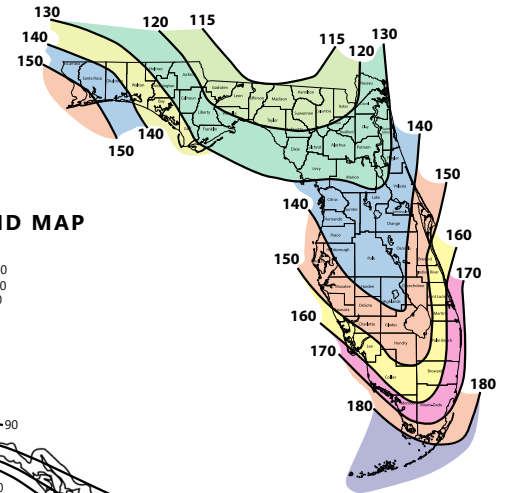
**ASCE7-05 WIND MAP**



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

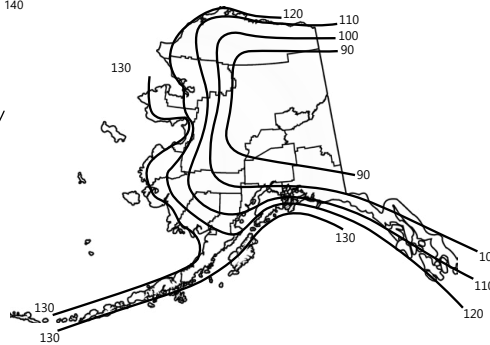
\*Printed with permission from ASCE

**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
<b>GROUP 1</b>									
RTA-E-10-40-A	10	11.4	10.0	7.8	6.2	5.0	4.0	3.4	2.8
RTA-E-12-40-A	12	9.0	7.8	6.0	4.6	3.6	2.8	2.2	1.8
RTA-E-14-40-A	14	7.0	6.0	4.4	3.4	2.4	1.8	1.4	1.0
RTA-E-16-50-A	16	9.8	8.6	6.4	4.8	3.8	3.0	2.4	2.0
RTA-E-18-50-A	18	8.0	6.8	4.8	3.6	2.8	2.0	1.6	1.2
RTA-E-20-50-A	20	6.2	5.2	3.6	2.4	1.8	1.2	NR	NR
<b>GROUP 2</b>									
RTA-E-20-60-B	20	15.0	12.8	9.9	7.8	6.2	5.0	4.2	3.5
RTA-E-25-70-B	25	14.5	12.5	9.4	7.2	5.5	4.5	3.7	3.0
RTA-E-30-80-B	30	13.9	11.8	8.7	6.6	5.2	4.1	3.3	2.6
RTA-E-35-80-C	35	12.8	10.5	7.6	5.6	4.3	3.4	2.6	1.9
RTA-E-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-E-10-40-A	10.2	9.2	7.6	6.5	5.4	4.6	3.8	3.4
RTA-E-12-40-A	8.0	7.0	5.8	4.8	4.0	3.2	2.6	2.2
RTA-E-14-40-A	6.2	5.4	4.4	3.6	2.8	2.2	1.8	1.4
RTA-E-16-50-A	8.8	7.8	6.2	5.2	4.2	3.4	2.8	2.4
RTA-E-18-50-A	6.8	6.0	4.8	3.8	3.0	2.4	2.0	1.6
RTA-E-20-50-A	5.4	4.6	3.4	2.6	2.0	1.6	1.2	NR
<b>GROUP 2</b>								
RTA-E-20-60-B	10.2	9.0	8.8	7.3	6.0	4.9	4.0	3.3
RTA-E-25-70-B	11.7	10.5	8.4	6.8	5.4	4.4	3.5	2.7
RTA-E-30-80-B	11.2	9.9	7.8	6.1	4.7	3.5	2.6	1.8
RTA-E-35-80-C	10.6	9.3	7.1	5.4	4.0	2.9	1.9	1.1
RTA-E-40-80-C	7.5	6.4	4.5	3.1	1.9	1.0	NR	NR

## NOTES

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1. Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
2. 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
3. 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
4. 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
5. Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Current's Pole Vibration Application Guide for environmental risk factors and design considerations:  
<http://images.salsify.com/image/upload/s--Uk0Lfj10--/bf7prkg0aey64uqoipso>
6. 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.**