BEACON
design . performance . technology

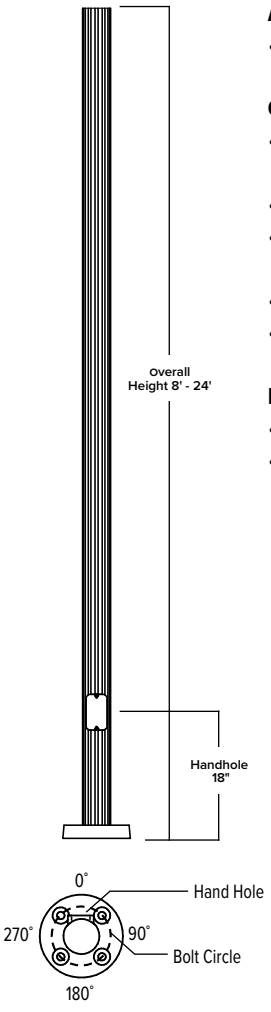
DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

# RSA-B-F Series Poles

ROUND STRAIGHT ALUMNINUM




## 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

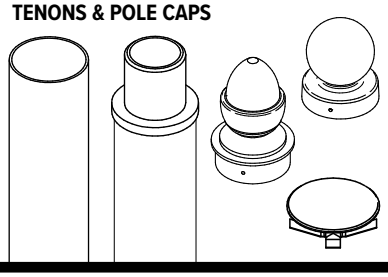
## CONSTRUCTION

- SHAFT: One-piece straight aluminum with fluted cross section; Extruded shafts of 6061-T6 aluminum in 3/16" or 1/4" thickness. Base plate of 356 cast aluminum.
- BOLT COVERS: Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP OR FINALS: Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires.
- HAND HOLE: Aluminum hand hole frame; Mounting provisions for grounding lug located behind 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

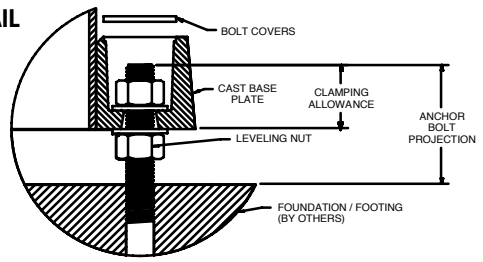
## FINISH

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

**TENONS & POLE CAPS**



**BASE DETAIL**




ORDERING EXAMPLE:

**RSA-B-F - 16 - 40 - A/B/C - 2 - 2L - B3 - DBT - VM2**

| SERIES | HEIGHT | SHAFT | THICKNESS |
|---|---|---|---|
| **RSA-B-F** Round Straight Aluminum Pole Beacon Fluted | Reference page 2 Ordering matrix | Reference page 2 Ordering matrix | Reference page 2 Ordering matrix |

**MOUNTING**

| | |
|---|---|
| **1** | Single arm mount |
| **2** | Two fixtures at 180˚ |
| **2L** | Two fixtures at 90˚ |
| **3T** | Three fixtures at 90˚ |
| **3Y** | Three at 120˚ |
| **4** | Four fixtures at 90˚ |
| **OT**[2] | Open top (includes pole cap) |
| **TN3**[2] | Tenon 3 x 3 |
| **TN4**[2] | Tenon 4 x 4 |
| **TN5**[2] | Tenon 4 x 5 |
| **TN8**[2] | Tenon 4 x 8 |

**FINISH**

| | |
|---|---|
| **BLT** | Black Matte Textured |
| **BLS** | Black Gloss Smooth |
| **DBT** | Dark Bronze Matte Textured |
| **DBS** | Dark Bronze Gloss Smooth |
| **GTT** | Graphite 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**

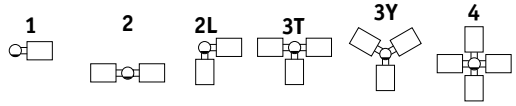
| | |
|---|---|
| **CC** | Custom Color |

**OPTIONS**

| | |
|---|---|
| **GFI**[1] | 20 Amp GFCI Receptacle and Cover |
| **EHH**[1] | Extra Handhole |
| **C05**[1] | .5" Coupling |
| **C07**[1] | .75" Coupling |
| **C20**[1] | 2" Coupling |
| **VM2** | 2nd mode vibration damper |
| **LAB** | Less Anchor Bolts |

**MOUNTING ORIENTATION**

Denotes handhole location




**DRILL PATTERN**

| | |
|---|---|
| **B1** | Cruzer, "AM" arm |
| **B3** | 2 bolt (2-½" spacing), Viper "A" arm |
| **S2** | 2 bolt (3-½" spacing), Viper "AD" arm |

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

**ACCESSORIES- Order Separately**

| Catalog Number | Description |
|---|---|
| **VM2SXX** | 2nd mode vibration damper |

BEACON
design . performance . technology

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

# RSA-B-F Series Poles

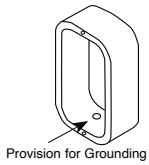
ROUND STRAIGHT ALUMNINUM

## ORDERING INFORMATION Cont.

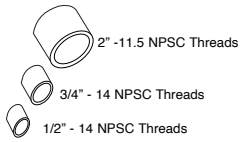
| Catalog Number | Height | | Nominal Shaft Dimensions | Wall Thick-ness | Bolt Circle (suggested) | Bolt Square | Base Plate Size | Anchor Bolt Size | Bolt Projection | Pole weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Feet | Meters | | | | | | | | |
| RSA-B-F-08-40-B | 8 | 2.4 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 28 |
| RSA-B-F-10-40-B | 10 | 3.0 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 34 |
| RSA-B-F-12-40-B | 12 | 3.7 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 39 |
| RSA-B-F-14-40-B | 14 | 4.3 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 45 |
| RSA-B-F-16-40-B | 16 | 4.9 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 51 |
| RSA-B-F-18-40-B | 18 | 5.5 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 57 |
| RSA-B-F-20-40-B | 20 | 6.1 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 63 |
| RSA-B-F-22-40-B | 22 | 6.7 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 69 |
| RSA-B-F-24-40-B | 24 | 7.3 | 4" Fluted | .188 | 6.75" | 4.77 | 9.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 74 |
| | | | | | | | | | | |
| RSA-B-F-08-50-B | 8 | 2.4 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 34 |
| RSA-B-F-10-50-B | 10 | 3.0 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 41 |
| RSA-B-F-12-50-B | 12 | 3.7 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 48 |
| RSA-B-F-14-50-B | 14 | 4.3 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 55 |
| RSA-B-F-16-50-B | 16 | 4.9 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 62 |
| RSA-B-F-18-50-B | 18 | 5.5 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 69 |
| RSA-B-F-20-50-B | 20 | 6.1 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 76 |
| RSA-B-F-22-50-B | 22 | 6.7 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 83 |
| RSA-B-F-24-50-B | 24 | 7.3 | 5" Fluted | .188 | 7.75" | 5.48" | 10.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 90 |
| | | | | | | | | | | |
| RSA-B-F-12-60-C | 12 | 3.7 | 6" Fluted | .25 | 8.75" | 6.19" | 11.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 72 |
| RSA-B-F-14-60-C | 14 | 4.3 | 6" Fluted | .25 | 8.75" | 6.19" | 11.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 83 |
| RSA-B-F-16-60-C | 16 | 4.9 | 6" Fluted | .25 | 8.75" | 6.19" | 11.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 94 |
| RSA-B-F-18-60-C | 18 | 5.5 | 6" Fluted | .25 | 8.75" | 6.19" | 11.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 105 |
| RSA-B-F-20-60-C | 20 | 6.1 | 6" Fluted | .25 | 8.75" | 6.19" | 11.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 116 |
| RSA-B-F-22-60-C | 22 | 6.7 | 6" Fluted | .25 | 8.75" | 6.19" | 11.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 127 |
| RSA-B-F-24-60-C | 24 | 7.3 | 6" Fluted | .25 | 8.75" | 6.19" | 11.62" Dia x 1.88" Thk | 3/4 x 30 x 3 | 2-3/4" | 138 |

NOTE 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



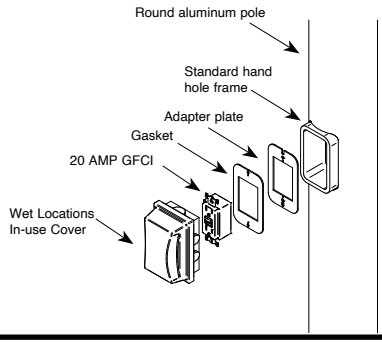

### C05 - C07 - C20 - COUPLING




### 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.

### 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: **RSA-B-F16-40B-TN3-DBT-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.

### VM2SXX - VIBRATION DAMPER 2ND MODE

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

For more information about pole vibration and vibration dampers, please consult our website.
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

BEACON
design . performance . technology

# RSA-B-F Series Poles

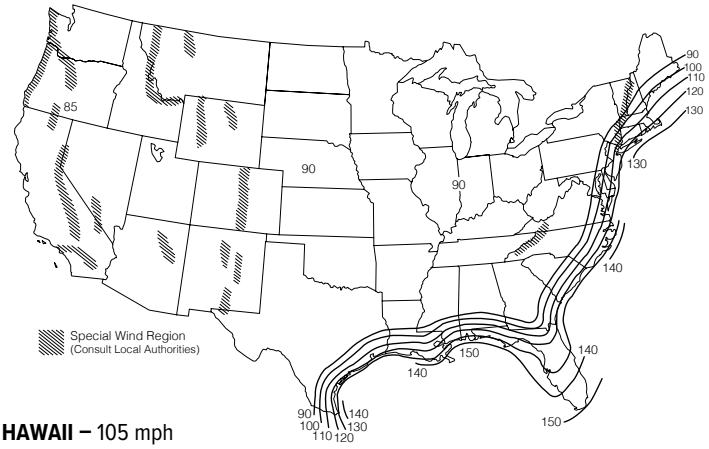
ROUND STRAIGHT ALUMNINUM

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

## ASCE7-05 WIND MAP

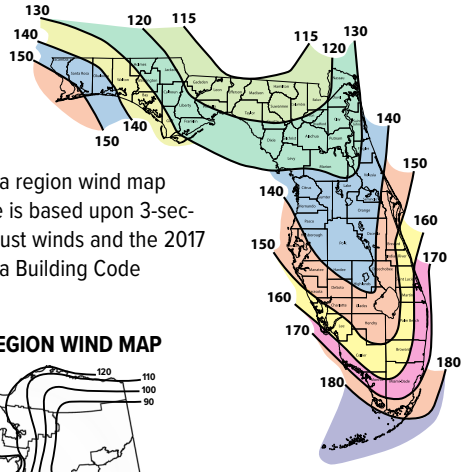



**HAWAII –** 105 mph

**PUERTO RICO –** 145 mph

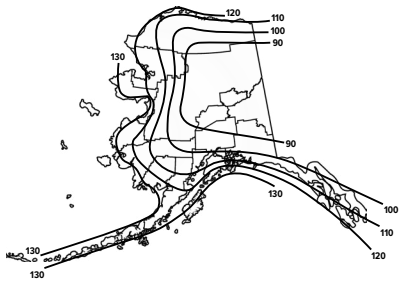
***PRINTED WITH PERMISSION FROM ASCE**

## 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 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Catalog Number** | **85** | **90** | **100** | **105** | **110** | **120** | **130** | **140** | **145** | **150** |
| RSA-B-F-08-40-B | 18.0 | 16.0 | 12.8 | 11.5 | 10.4 | 8.6 | 7.1 | 5.9 | 5.4 | 5.0 |
| RSA-B-F-10-40-B | 13.6 | 12.0 | 9.5 | 8.5 | 7.6 | 6.1 | 4.9 | 4.0 | 3.6 | 3.2 |
| RSA-B-F-12-40-B | 10.5 | 9.2 | 7.1 | 6.3 | 5.6 | 4.3 | 3.4 | 2.6 | 2.3 | 2.0 |
| RSA-B-F-14-40-B | 8.2 | 7.1 | 5.4 | 4.6 | 4.0 | 3.0 | 2.2 | 1.5 | 1.2 | 1.0 |
| RSA-B-F-16-40-B | 6.4 | 5.5 | 3.9 | 3.3 | 2.8 | 1.9 | 1.1 | 0.6 | NR | NR |
| RSA-B-F-18-40-B | 4.9 | 4.0 | 2.7 | 2.2 | 1.7 | 0.9 | NR | NR | NR | NR |
| RSA-B-F-20-40-B | 3.6 | 2.8 | 1.7 | 1.2 | 0.8 | NR | NR | NR | NR | NR |
| RSA-B-F-22-40-B | 2.5 | 1.8 | 0.8 | NR | NR | NR | NR | NR | NR | NR |
| RSA-B-F-24-40-B | 1.5 | 0.9 | NR | NR | NR | NR | NR | NR | NR | NR |
| | | | | | | | | | | |
| RSA-B-F-08-50-B | 25.0 | 25.0 | 21.2 | 19.2 | 17.3 | 14.3 | 12.0 | 10.1 | 9.3 | 8.6 |
| RSA-B-F-10-50-B | 22.7 | 20.2 | 16.1 | 14.4 | 13.0 | 10.6 | 8.7 | 7.2 | 6.5 | 6.0 |
| RSA-B-F-12-50-B | 17.9 | 15.8 | 12.4 | 11.1 | 9.9 | 7.9 | 6.3 | 5.1 | 4.5 | 4.0 |
| RSA-B-F-14-50-B | 14.4 | 12.6 | 9.7 | 8.5 | 7.5 | 5.8 | 4.5 | 3.4 | 3.0 | 2.5 |
| RSA-B-F-16-50-B | 11.6 | 10.0 | 7.5 | 6.5 | 5.6 | 4.2 | 3.0 | 2.1 | 1.7 | 1.3 |
| RSA-B-F-18-50-B | 9.2 | 7.9 | 5.7 | 4.8 | 4.0 | 2.7 | 1.7 | 0.9 | 0.5 | NR |
| RSA-B-F-20-50-B | 7.2 | 6.0 | 4.1 | 3.3 | 2.6 | 1.5 | 0.6 | NR | NR | NR |
| RSA-B-F-22-50-B | 5.5 | 4.4 | 2.7 | 2.0 | 1.4 | NR | NR | NR | NR | NR |
| RSA-B-F-24-50-B | 4.0 | 3.1 | 1.6 | 0.9 | NR | NR | NR | NR | NR | NR |
| | | | | | | | | | | |
| RSA-B-F-12-60-C | 25.0 | 25.0 | 24.2 | 21.6 | 19.4 | 15.7 | 12.9 | 10.6 | 9.6 | 8.7 |
| RSA-B-F-14-60-C | 25.0 | 25.0 | 19.7 | 17.4 | 15.5 | 12.4 | 9.9 | 7.9 | 7.1 | 6.4 |
| RSA-B-F-16-60-C | 24.1 | 20.9 | 16.1 | 14.1 | 12.4 | 9.7 | 7.5 | 5.8 | 5.1 | 4.4 |
| RSA-B-F-18-60-C | 20.0 | 17.2 | 13.0 | 11.3 | 9.8 | 7.4 | 5.5 | 4.0 | 3.3 | 2.8 |
| RSA-B-F-20-60-C | 16.5 | 14.1 | 10.3 | 8.8 | 7.5 | 5.3 | 3.7 | 2.4 | 1.8 | 1.3 |
| RSA-B-F-22-60-C | 13.5 | 11.4 | 8.0 | 6.7 | 5.5 | 3.6 | 2.1 | 1.0 | 0.5 | NR |
| RSA-B-F-24-60-C | 11.0 | 9.1 | 6.1 | 4.9 | 3.8 | 2.1 | 0.8 | NR | NR | NR |

| Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Catalog Number** | **115** | **120** | **130** | **140** | **150** | **160** | **170** | **180** |
| RSA-B-F-08-40-B | 13.5 | 12.3 | 10.4 | 8.8 | 7.5 | 6.4 | 5.5 | 4.8 |
| RSA-B-F-10-40-B | 10.1 | 9.1 | 7.6 | 6.3 | 5.3 | 4.4 | 3.7 | 3.1 |
| RSA-B-F-12-40-B | 7.6 | 6.9 | 5.6 | 4.5 | 3.7 | 2.9 | 2.4 | 1.9 |
| RSA-B-F-14-40-B | 5.8 | 5.1 | 4.0 | 3.1 | 2.4 | 1.8 | 1.3 | 0.9 |
| RSA-B-F-16-40-B | 4.3 | 3.7 | 2.7 | 2.0 | 1.3 | 0.8 | NR | NR |
| RSA-B-F-18-40-B | 3.0 | 2.5 | 1.7 | 1.0 | NR | NR | NR | NR |
| RSA-B-F-20-40-B | 1.9 | 1.5 | 0.7 | NR | NR | NR | NR | NR |
| RSA-B-F-22-40-B | 1.0 | 0.6 | NR | NR | NR | NR | NR | NR |
| | | | | | | | | |
| RSA-B-F-08-50-B | 22.3 | 20.4 | 17.3 | 14.7 | 12.6 | 10.9 | 9.5 | 8.3 |
| RSA-B-F-10-50-B | 17.0 | 15.5 | 12.9 | 10.9 | 9.2 | 7.8 | 6.7 | 5.7 |
| RSA-B-F-12-50-B | 13.2 | 12.0 | 9.9 | 8.2 | 6.8 | 5.6 | 4.7 | 3.9 |
| RSA-B-F-14-50-B | 10.4 | 9.3 | 7.5 | 6.1 | 4.9 | 3.9 | 3.1 | 2.4 |
| RSA-B-F-16-50-B | 8.0 | 7.1 | 5.6 | 4.3 | 3.3 | 2.5 | 1.7 | 1.1 |
| RSA-B-F-18-50-B | 6.1 | 5.3 | 3.9 | 2.8 | 2.0 | 1.2 | 0.6 | NR |
| RSA-B-F-20-50-B | 4.4 | 3.7 | 2.5 | 1.6 | 0.8 | NR | NR | NR |
| RSA-B-F-22-50-B | 3.0 | 2.4 | 1.4 | NR | NR | NR | NR | NR |
| RSA-B-F-24-50-B | 1.8 | 1.3 | NR | NR | NR | NR | NR | NR |
| | | | | | | | | |
| RSA-B-F-12-60-C | 25.0 | 24.7 | 20.7 | 17.5 | 14.9 | 12.7 | 10.9 | 9.4 |
| RSA-B-F-14-60-C | 22.1 | 20.1 | 16.6 | 13.9 | 11.7 | 9.8 | 8.2 | 6.9 |
| RSA-B-F-16-60-C | 18.0 | 16.2 | 13.3 | 10.9 | 9.0 | 7.4 | 6.0 | 4.9 |
| RSA-B-F-18-60-C | 14.5 | 12.9 | 10.4 | 8.3 | 6.7 | 5.3 | 4.1 | 3.1 |
| RSA-B-F-20-60-C | 11.6 | 10.3 | 8.0 | 6.2 | 4.8 | 3.5 | 2.5 | 1.6 |
| RSA-B-F-22-60-C | 9.2 | 8.0 | 6.1 | 4.4 | 3.1 | 2.0 | 1.1 | NR |
| RSA-B-F-24-60-C | 7.2 | 6.1 | 4.3 | 2.9 | 1.7 | 0.7 | NR | NR |

# RSA-B-F Series Poles

ROUND STRAIGHT ALUMNINUM

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 Pole Vibration Application Guide for environmental risk factors and design considerations. http://cdn.spauldinglighting.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HLOI0022.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.