

# RSA-B-DBE-S SERIES POLES ROUND STRAIGHT ALUMINUM

Cat.#

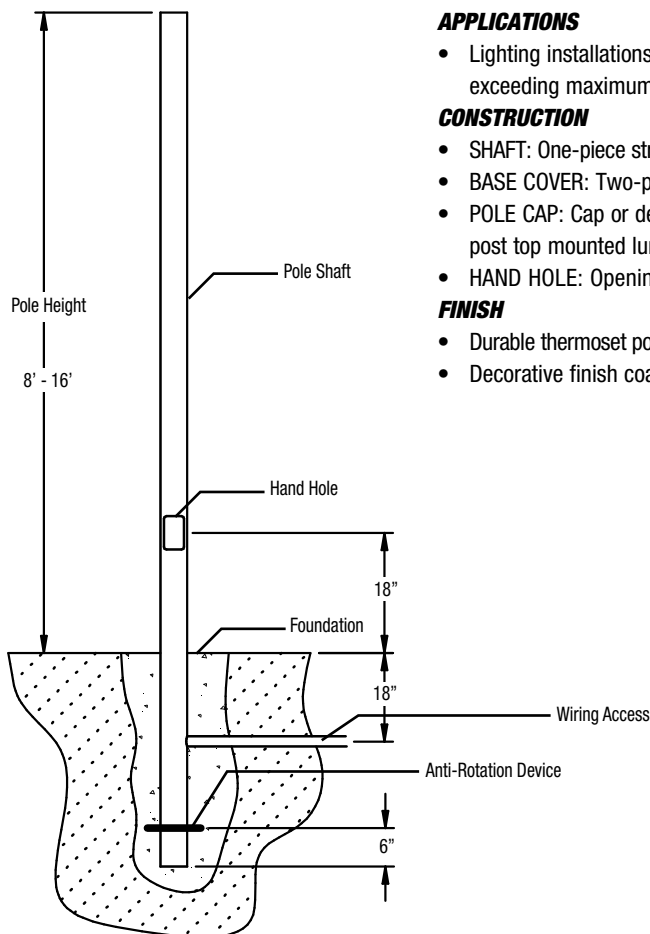
Job

Type

Approvals



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## 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

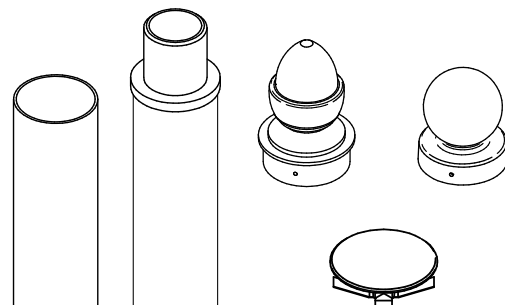
## CONSTRUCTION

- SHAFT: One-piece straight aluminum with round cross section, 6061-T6
- BASE COVER: Two-piece cast aluminum base covers available
- POLE CAP: Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires.
- HAND HOLE: Opening provided with cast aluminum frame reinforcement.

## FINISH

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

## TENONS & POLE CAPS

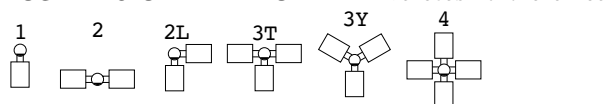


\*Local civil engineer should be consulted for proper foundation design

## ORDERING EXAMPLE:

SERIES		HEIGHT	SHAFT	THICKNESS	MOUNTING		FINISH	OPTIONS
RSA-B-DBE-S		16	40	A/B/C	CAP - 2L - B3		BBT	VM2
Round Straight Aluminum Direct Burial Style Beacon Smooth		Reference page 2 Ordering matrix	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<sup>2</sup></b> Two fixtures at 90° <b>3T<sup>2</sup></b> Three fixtures at 90° <b>3Y<sup>2</sup></b> Three fixtures at 120° <b>4<sup>2</sup></b> Four fixtures at 90° <b>OT<sup>3</sup></b> Open top (no drilling) <b>BAL<sup>3</sup></b> Ball Finial <b>ARC<sup>3</sup></b> Acorn Finial <b>CAP<sup>3</sup></b> Cap Top <b>TN3<sup>3</sup></b> Tenon 3 x 3 <b>TN4<sup>3</sup></b> Tenon 3 x 4 <b>TN5<sup>3</sup></b> Tenon 4 x 5 <b>TN8<sup>3</sup></b> Tenon 4 x 8		<b>BL</b> Black Textured <b>DB</b> Dark Bronze Textured <b>GT</b> Graphite Textured <b>GYS</b> Light Gray Smooth <b>PS</b> Platinum Silver Smooth <b>WH</b> White Textured <b>BBT</b> Basic Black Textured <b>BZT</b> Bronze Textured <b>CC</b> Custom Color	<b>GFI<sup>1,2</sup></b> 20 Amp GFCI Receptacle and Cover <b>EHH<sup>1,2</sup></b> Extra Handhole <b>C05<sup>1</sup></b> .5" Coupling <b>C07<sup>1</sup></b> .75" Coupling <b>C20<sup>1</sup></b> 2" Coupling <b>VM2</b> 2nd mode vibration damper

## MOUNTING ORIENTATION



## DRILL PATTERN

- B1** Cruiser, "AM" arm  
**B3** 2 bolt (2-1/2" spacing), Viper "A" arm  
**S2** 2 bolt (3-1/2" spacing), Viper "AD" arm

## ACCESSORIES- Order Separately

Catalog Number	Description
VM2SXX	2nd mode vibration damper

- 1 Specify option location using logic found on page 2 (**Option Orientation**)  
 2 Not available with 3" diameter poles.  
 3 Specify Pole Top



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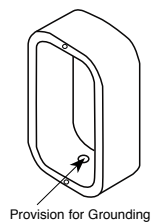
**HUBBELL**  
Lighting

RSA-B-DBE-S POLES-SPEC APRIL 15, 2019 11:48 AM

## ORDERING INFORMATION Cont.

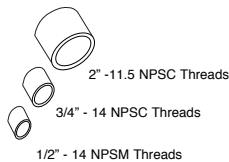
Catalog Number	Pole Height		Nominal Shaft Dimensions	Wall Thickness	Pole weight (lbs)
	Feet	Meters			
RSA-B-DBE-S-08-30-A	08	2.4	3" Round	0.125"	15
RSA-B-DBE-S-10-30-A	10	3.0	3" Round	0.125"	18
RSA-B-DBE-S-12-30-A	12	3.7	3" Round	0.125"	22
RSA-B-DBE-S-14-30-A	14	4.3	3" Round	0.125"	25
RSA-B-DBE-S-08-30-C	08	2.4	3" Round	.25"	28
RSA-B-DBE-S-10-30-C	10	3.0	3" Round	.25"	34
RSA-B-DBE-S-12-30-C	12	3.7	3" Round	.25"	41
RSA-B-DBE-S-14-30-C	14	4.3	3" Round	.25"	48
RSA-B-DBE-S-08-40-A	08	2.4	4" Round	0.125"	20
RSA-B-DBE-S-10-40-A	10	3.0	4" Round	0.125"	24
RSA-B-DBE-S-12-40-A	12	3.7	4" Round	0.125"	29
RSA-B-DBE-S-14-40-A	14	4.3	4" Round	0.125"	34
RSA-B-DBE-S-16-40-A	16	4.9	4" Round	0.125"	39
RSA-B-DBE-S-08-40-B	08	2.4	4" Round	0.188"	29
RSA-B-DBE-S-10-40-B	10	3.0	4" Round	0.188"	36
RSA-B-DBE-S-12-40-B	12	3.7	4" Round	0.188"	43
RSA-B-DBE-S-14-40-B	14	4.3	4" Round	0.188"	50
RSA-B-DBE-S-16-40-B	16	4.9	4" Round	0.188"	57
RSA-B-DBE-S-08-40-C	08	2.4	4" Round	0.25"	37
RSA-B-DBE-S-10-40-C	10	3.0	4" Round	0.25"	47
RSA-B-DBE-S-12-40-C	12	3.7	4" Round	0.25"	56
RSA-B-DBE-S-14-40-C	14	4.3	4" Round	0.25"	65
RSA-B-DBE-S-16-40-C	16	4.9	4" Round	0.25"	74
RSA-B-DBE-S-08-50-B	08	2.4	5" Round	0.188"	36
RSA-B-DBE-S-10-50-B	10	3.0	5" Round	0.188"	45
RSA-B-DBE-S-12-50-B	12	3.7	5" Round	0.188"	54
RSA-B-DBE-S-14-50-B	14	4.3	5" Round	0.188"	63
RSA-B-DBE-S-16-50-B	16	4.9	5" Round	0.188"	71
RSA-B-DBE-S-10-60-A	10	3.0	6" Round	0.125"	37
RSA-B-DBE-S-12-60-A	12	3.7	6" Round	0.125"	44
RSA-B-DBE-S-14-60-A	14	4.3	6" Round	0.125"	51
RSA-B-DBE-S-16-60-A	16	4.9	6" Round	0.125"	58

### EHH - EXTRA HANDHOLE



Provision for Grounding

### C05 - C07 - C20 - COUPLING



### VM2SXX - VIBRATION DAMPER 2ND MODE



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

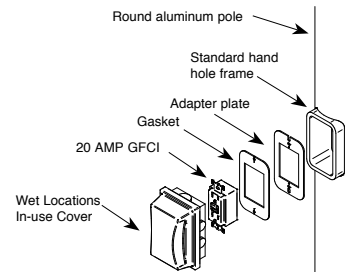
VM2S08 - 8'  
VM2S12 - 12'  
VM2S16 - 16'  
VM2S20 - 20'  
VM2S24 - 24'

### 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-DBE-S-16-40A-TN3-BBT-C05-0-10.** (.5" coupling on the handhole/arm side of pole, 10 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.

For more information about pole vibration and vibration dampers, please consult [http://cdn.beaconproducts.com/content/products/literature/literature\\_files/Pole\\_Wind\\_Induced\\_Flyer\\_HL010022.pdf](http://cdn.beaconproducts.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HL010022.pdf)  
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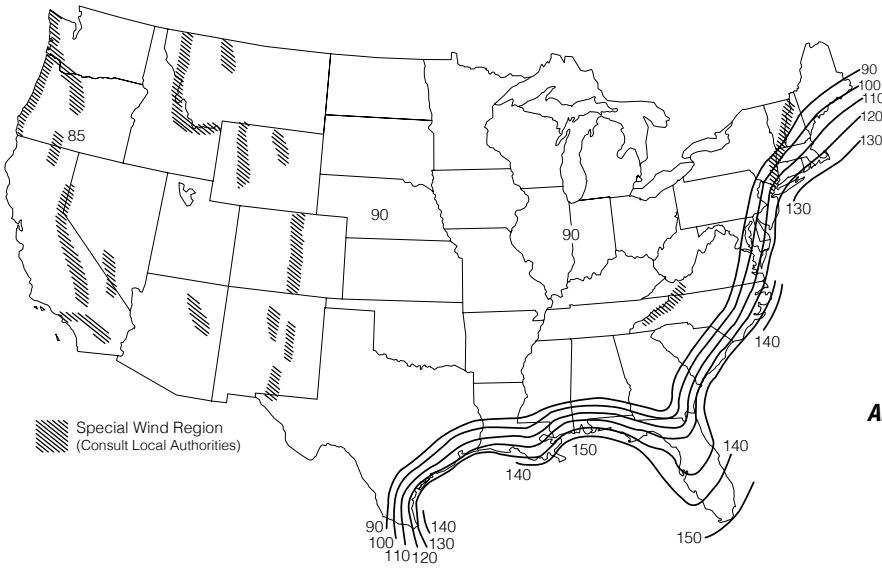
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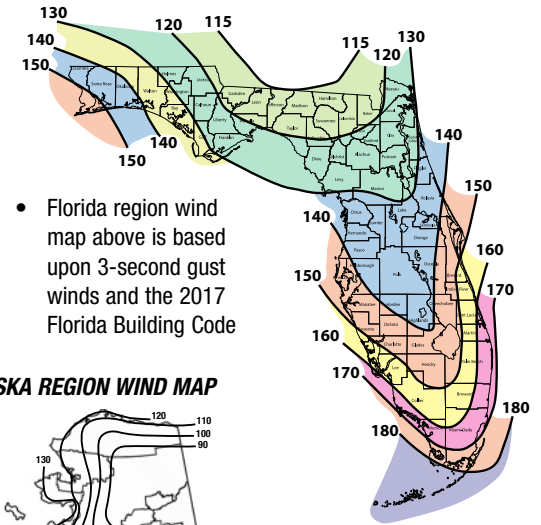
RSA-B-DBE-S POLES-SPEC APRIL 15, 2019 11:48 AM



HAWAII – 105 mph  
PUERTO RICO – 145 mph

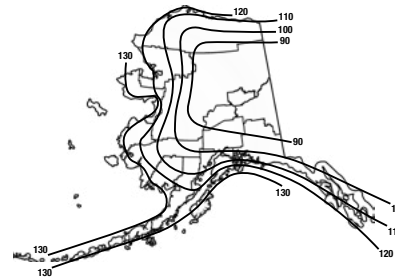
\*PRINTED WITH PERMISSION FROM ASCE

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-DBE-S-08-30-A	11.2	10.1	8.2	7.4	6.7	5.5	4.6	3.9	3.5	3.2
RSA-B-DBE-S-10-30-A	8.3	7.4	5.9	5.3	4.8	3.9	3.1	2.5	2.3	2.1
RSA-B-DBE-S-12-30-A	6.3	5.6	4.4	3.9	3.4	2.7	2.1	1.6	1.4	1.2
RSA-B-DBE-S-14-30-A	4.8	4.2	3.2	2.8	2.4	1.8	1.3	0.9	0.7	0.5
RSA-B-DBE-S-08-30-C	20.6	18.5	15.1	13.7	12.5	10.5	8.9	7.6	7.0	6.5
RSA-B-DBE-S-10-30-C	15.6	14.0	11.4	10.3	9.4	7.8	6.5	5.5	5.1	4.6
RSA-B-DBE-S-12-30-C	12.2	10.9	8.8	8.0	7.2	5.9	4.9	4.0	3.7	3.3
RSA-B-DBE-S-14-30-C	9.7	8.7	6.9	6.2	5.6	4.5	3.6	2.9	2.6	2.3
RSA-B-DBE-S-08-40-A	21.8	19.5	15.8	14.3	13.0	10.9	9.3	8.0	7.4	6.9
RSA-B-DBE-S-10-40-A	16.5	14.8	11.9	10.7	9.7	8.0	6.8	5.9	5.4	5.1
RSA-B-DBE-S-12-40-A	12.9	11.5	9.2	8.2	7.4	6.0	5.1	4.3	4.0	3.7
RSA-B-DBE-S-14-40-A	10.3	9.1	7.1	6.3	5.6	4.5	3.7	3.2	2.9	2.7
RSA-B-DBE-S-16-40-A	8.2	7.2	5.5	4.8	4.3	3.3	2.7	2.2	2.0	1.8
RSA-B-DBE-S-08-40-B	25.0	25.0	23.2	21.1	19.2	16.1	13.8	11.9	11.1	10.4
RSA-B-DBE-S-10-40-B	24.3	21.8	17.7	16.0	14.5	12.1	10.4	8.9	8.3	7.8
RSA-B-DBE-S-12-40-B	19.2	17.2	13.9	12.5	11.3	9.4	8.0	6.9	6.4	5.9
RSA-B-DBE-S-14-40-B	15.5	13.8	11.1	10.0	9.0	7.3	6.2	5.3	4.9	4.6
RSA-B-DBE-S-16-40-B	12.7	11.3	8.9	8.0	7.1	5.7	4.8	4.1	3.8	3.5
RSA-B-DBE-S-08-40-C	25.0	25.0	25.0	25.0	24.7	20.8	17.8	15.4	14.4	13.4
RSA-B-DBE-S-10-40-C	25.0	25.0	22.9	20.8	18.9	15.9	13.6	11.7	10.9	10.2
RSA-B-DBE-S-12-40-C	24.9	22.3	18.2	16.4	14.9	12.5	10.6	9.2	8.5	8.0
RSA-B-DBE-S-14-40-C	20.3	18.2	14.7	13.3	12.0	9.9	8.4	7.3	6.7	6.3
RSA-B-DBE-S-16-40-C	16.8	15.0	12.0	10.8	9.7	8.0	6.7	5.8	5.3	5.0
RSA-B-DBE-S-08-50-B	25.0	25.0	25.0	25.0	25.0	23.2	20.1	18.7	17.5	
RSA-B-DBE-S-10-50-B	25.0	25.0	25.0	25.0	24.8	21.0	17.9	15.5	14.5	13.5
RSA-B-DBE-S-12-50-B	25.0	25.0	23.8	21.7	19.9	16.8	14.3	12.4	11.5	10.8
RSA-B-DBE-S-14-50-B	25.0	23.8	19.4	17.7	16.2	13.7	11.6	10.0	9.3	8.7
RSA-B-DBE-S-16-50-B	22.2	19.8	16.1	14.6	13.4	11.2	9.6	8.2	7.6	7.1
RSA-B-DBE-S-10060-A	25.0	25.0	25.0	25.0	25.0	21.4	18.2	15.8	14.7	13.7
RSA-B-DBE-S-12060-A	25.0	25.0	24.4	22.2	20.3	17.1	14.6	12.6	11.8	11.0
RSA-B-DBE-S-14060-A	25.0	24.4	20.0	18.2	16.6	14.0	12.0	10.3	9.6	8.9
RSA-B-DBE-S-16060-A	22.7	20.4	16.6	15.1	13.8	11.6	9.9	8.5	7.9	7.3



Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

ALASKA REGION WIND MAP



Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds								
Catalog Number	115	120	130	140	150	160	170	180
RSA-B-DBE-S-08-30-A	11.0	10.1	8.6	7.4	6.3	5.5	4.8	4.2
RSA-B-DBE-S-10-30-A	8.1	7.4	6.3	5.3	4.5	3.8	3.3	2.8
RSA-B-DBE-S-12-30-A	6.1	5.5	4.6	3.8	3.2	2.6	2.2	1.8
RSA-B-DBE-S-14-30-A	4.6	4.2	3.4	2.7	2.2	1.7	1.3	1.0
RSA-B-DBE-S-08-30-C	20.2	18.7	16.0	13.9	12.1	10.6	9.3	8.2
RSA-B-DBE-S-10-30-C	15.3	14.1	12.1	10.4	9.0	7.8	6.8	6.0
RSA-B-DBE-S-12-30-C	11.9	11.0	9.3	8.0	6.9	5.9	5.1	4.4
RSA-B-DBE-S-14-30-C	9.4	8.7	7.3	6.2	5.3	4.5	3.8	3.2
RSA-B-DBE-S-08-40-A	21.2	19.6	16.7	14.4	12.4	10.8	10.1	9.0
RSA-B-DBE-S-10-40-A	16.0	14.7	12.5	10.7	9.2	7.9	7.6	6.7
RSA-B-DBE-S-12-40-A	12.5	11.4	9.6	8.1	6.9	5.8	5.6	5.1
RSA-B-DBE-S-14-40-A	9.8	8.9	7.4	6.2	5.1	4.2	4.0	3.9
RSA-B-DBE-S-16-40-A	7.7	7.0	5.7	4.6	3.7	2.9	2.5	2.0
RSA-B-DBE-S-08-40-B	25.0	25.0	24.6	21.3	18.5	16.2	14.9	13.3
RSA-B-DBE-S-10-40-B	23.8	21.9	18.7	16.1	14.0	12.1	11.4	10.1
RSA-B-DBE-S-12-40-B	18.8	17.3	14.7	12.6	10.8	9.3	9.0	7.9
RSA-B-DBE-S-14-40-B	15.1	13.9	11.7	9.9	8.5	7.2	6.7	6.3
RSA-B-DBE-S-16-40-B	12.2	11.1	9.3	7.8	6.5	5.5	5.2	5.0
RSA-B-DBE-S-08-40-C	25.0	25.0	25.0	25.0	23.9	21.0	19.2	17.1
RSA-B-DBE-S-10-40-C	25.0	25.0	24.3	21.0	18.2	15.9	14.8	13.2
RSA-B-DBE-S-12-40-C	24.4	22.5	19.2	16.5	14.3	12.4	11.8	10.4
RSA-B-DBE-S-14-40-C	19.8	18.3	15.6	13.3	11.4	9.8	9.6	8.4
RSA-B-DBE-S-16-40-C	16.2	14.9	12.6	10.7	9.1	7.7	7.1	6.8
RSA-B-DBE-S-08-50-B	25.0	25.0	25.0	25.0	25.0	24.4	21.8	
RSA-B-DBE-S-10-50-B	25.0	25.0	25.0	25.0	24.3	21.4	18.9	16.8
RSA-B-DBE-S-12-50-B	25.0	25.0	24.9	22.5	19.6	17.2	15.1	13.4
RSA-B-DBE-S-14-50-B	25.0	23.8	20.2	18.6	16.1	14.1	12.4	10.9
RSA-B-DBE-S-16-50-B	21.3	19.5	16.4	15.4	13.3	11.6	10.1	8.8
RSA-B-DBE-S-10060-A	25.0	25.0	25.0	25.0	24.4	21.4	18.9	16.7
RSA-B-DBE-S-12060-A	25.0	25.0	25.0	22.6	19.6	17.1	15.0	13.3
RSA-B-DBE-S-14060-A	25.0	25.0	21.6	18.6	16.1	14.0	12.2	10.7
RSA-B-DBE-S-16060-A	22.9	21.1	17.9	15.3	13.2	11.4	9.9	8.6

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## NOTES

### Wind-speed Website disclaimer:

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

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