KIM LIGHTING®

RTAK Series Poles

ROUND TAPERED ALUMINUM

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

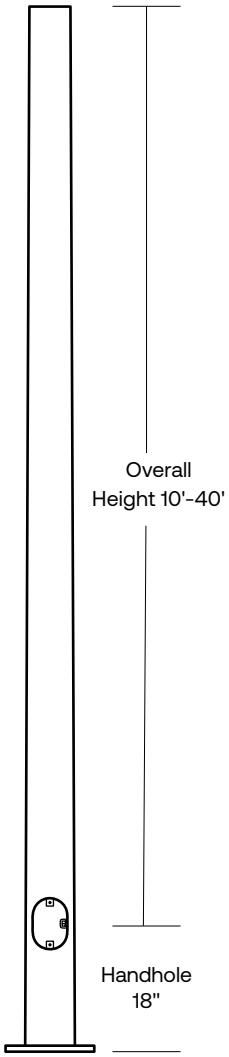
SPECIFICATIONS

CONSTRUCTION

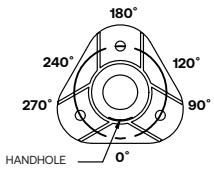
- Shaft: One-piece tapered aluminum with round cross section, made of 6061-T6 shaft and 356-T6 cast aluminum base
- **Group 1:**
  - Anchor bolts: Supplied with (3) galvanized anchor bolts with minimum yield of 55,000 psi (ASTM F1554. Galvanized hardware with two washers and two nuts per bolt for leveling. Top nut is acorn nut.
    - Size: (3) 3/4 x 17 x 3
  - 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.
  - Comes with a one piece round base cover.
- **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.
    - Part number: 1.00 X 36.00 X 4 — TAB-30-M38
  - 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
- Super Durable polyester-TGIC powder coat finish with nominal 3.0 mil thickness. Meets or exceeds AAMA 2604 standards.

INSTALLATION

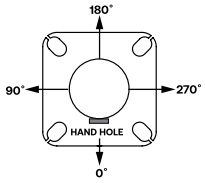
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



BASE

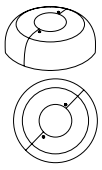


Group 1

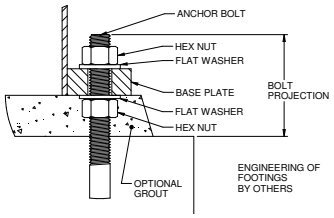


Group 2

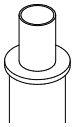
BASE COVER[1]



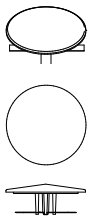
BASE DETAIL



TENON



POLE CAP



1 Group 1 poles only.

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ORDERING INFORMATION

Example: RTAK20-50A–1–K1–DBT

RTAK – [Height] – [Shaft] – [Thickness] – [Mounting] – [Drill Pattern] – [Finish] – [Options]

Series	Height	Shaft	Thickness	Mounting	Drill Pattern	Finish	Options
RTAK Round Tapered Aluminum Pole Kim Lighting	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix A - .125" Wall B - .188" Wall C - .250" Wall	1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 3Y Three fixtures at 120° 4 Four fixtures at 90° TA Tenon (2.375" OD) OT Open Top (includes pole cap)	K1 2 bolt 5 3/16" spacing K2 2 bolt 3 1/2" spacing K3 2 bolt 3" spacing UDP Universal Drill Pattern	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGT Light Grey Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured	GFI[2] 20 Amp GFCI Receptacle and Cover EHH[2] Extra Handhole C05[2] .5" Coupling C07[2] .75" Coupling C20[2] 2" Coupling VM2 2nd mode vibration dampener LAB Less Anchor Bolts UL UL Certified

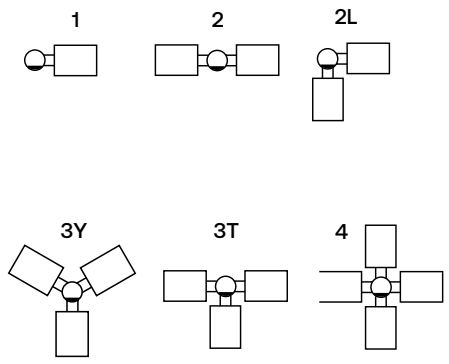
Accessories (Order Separately)

- ☐ 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)

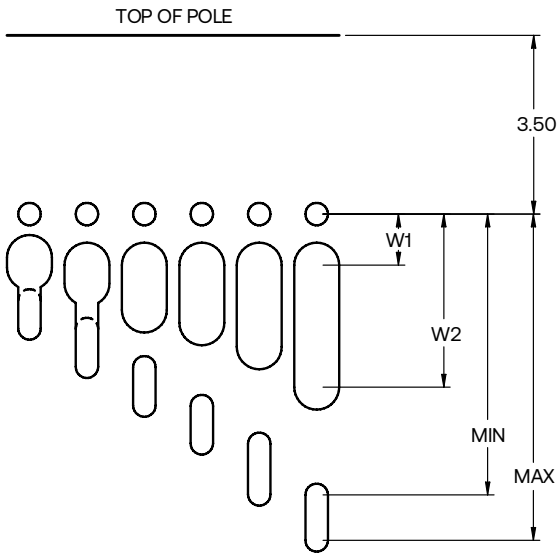
MOUNTING ORIENTATION

Denotes handhole location



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
⅜" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7/16" to ½"	UDP02	UDP04	UDP06	UDP08	UDP010	UDP012
"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

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ORDERING INFORMATION (CONTINUED)

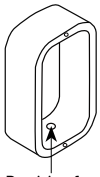
CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE	BOLT CIRCLE RANGE	BASE PLATE SIZE	BASE PLATE SHAPE	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT
	FEET	METERS									
Group 1											
RTAK10-40A	10	3	4" x 3"	.125"	7"	-	7.25	Triangular	3/4x16x3"	3.00"	24
RTAK12-40A	12	3.7	4" x 3"	.125"	7"	-	7.25	Triangular	3/4x16x3"	3.00"	27
RTAK14-40A	14	4.3	4" x 3"	.125"	7"	-	7.25	Triangular	3/4x16x3"	3.00"	32
RTAK16-50A	16	4.9	5" x 3"	.125"	8"	-	8.31	Triangular	3/4x16x3"	3.00"	35
RTAK18-50A	18	5.5	5" x 3"	.125"	8"	-	8.31	Triangular	3/4x16x3"	3.00"	42
RTAK20-50A	20	6.1	5" x 3"	.125"	8"	-	8.31	Triangular	3/4x16x3"	3.00"	47
Group 2											
RTAK20-60B	20	6.1	6" x 4"	.188"	9.5"	9-10"	9.75	Square	1" x 36" x 4"	4.25"	90
RTAK25-70B	25	7.6	7" x 4"	.188"	11"	10-11"	10.5	Square	1" x 36" x 4"	4.25"	120
RTAK30-80B	30	9.1	8" x 4.5"	.188"	11"	11-12"	11.25	Square	1" x 36" x 4"	4.25"	150
RTAK35-80C	35	10.7	8" x 4.5"	.250"	11"	11-12"	11.25	Square	1" x 36" x 4"	4.25"	205
RTAK40-80C	40	12.2	8" x 4.5"	.250"	11"	11-12"	11.25	Square	1" x 36" x 4"	4.25"	260

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.

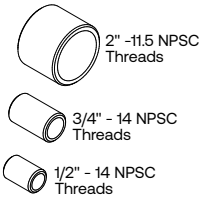
[1] There will be a weld witness mark on the side of the pole with the Factory installed VM2.

EHH
Extra handhole

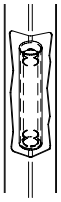


Provision for Grounding

C05 / C07 / C20
Coupling



VM2[1]
2nd mode vibration dampener



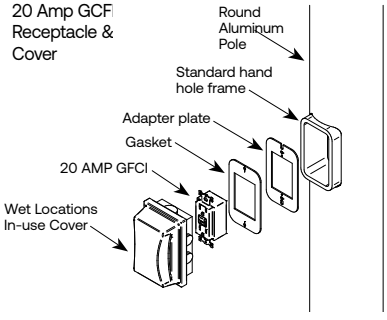
Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX
Field-installed 2nd mode vibration dampener

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

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

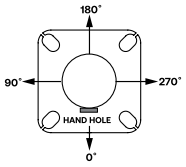
GFI
20 Amp GCFI Receptacle & Cover

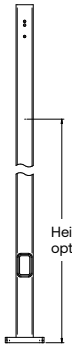


Option Orientation

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: RTAK20-65-A-TA-DB-C05-0-15 (5" coupling on the handhole side of pole, 15' up from the pole base) 1' spacing required between option. Consult factory for other configurations.





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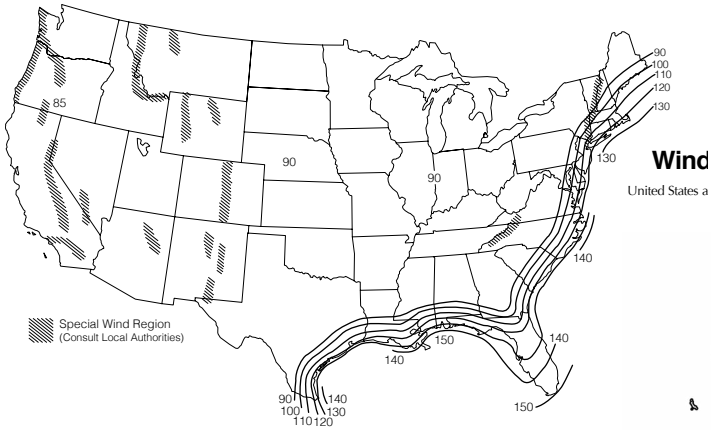
WIND MAPS

ASCE7-05 WIND MAP

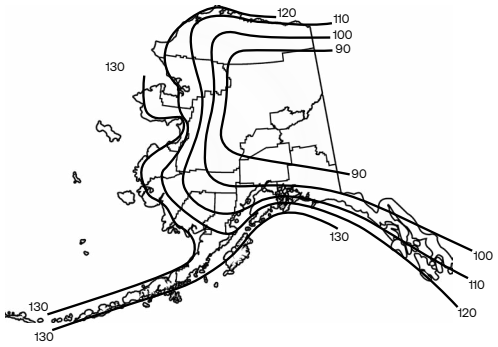


HAWAII – 105 mph
PUERTO RICO – 145 mph

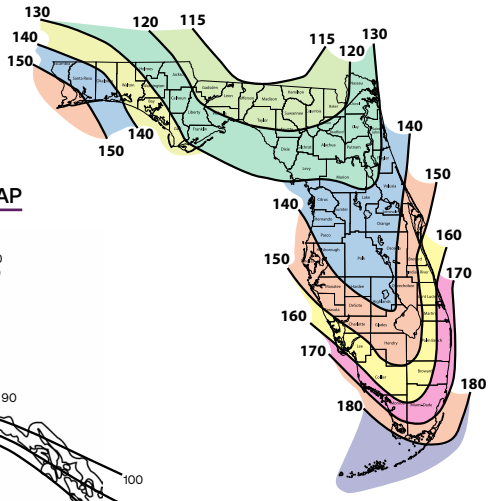
*Printed with permission from ASCE

Wind
United States a

ALASKA REGION WIND MAP



FLORIDA REGION WIND MAP



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

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
Group 1									
RTAK10-40A	10.0	11.4	10.0	7.8	6.2	5.0	4.0	3.4	2.8
RTAK12-40A	12.0	9.0	7.8	6.0	4.6	3.6	2.8	2.2	1.8
RTAK14-40A	14.0	7.0	6.0	4.4	3.4	2.4	1.8	1.4	1.0
RTAK16-50A	16.0	9.8	8.6	6.4	4.8	3.8	3.0	2.4	2.0
RTAK18-50A	18.0	8.0	6.8	4.8	3.6	2.8	2.0	1.6	1.2
RTAK20-50A	20.0	6.2	5.2	3.6	2.4	1.8	1.2	N/R	N/R
Group 2									
RTAK20-60B	20.0	15.0	12.8	9.9	7.8	6.2	5.0	4.2	3.5
RTAK25-70B	25.0	14.5	12.5	9.4	7.2	5.5	4.5	3.7	3.0
RTAK30-80B	30.0	13.9	11.8	8.7	6.6	5.2	4.1	3.3	2.6
RTAK35-80C	35.0	12.8	10.5	7.6	5.6	4.3	3.4	2.6	1.9
RTAK40-80C	40.0	8.6	6.9	4.4	2.8	1.9	1.2	N/R	N/R

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
Group 1								
RTAK10-40A	10.2	9.2	7.6	6.4	5.4	4.6	3.8	3.4
RTAK12-40A	8.0	7.0	5.8	4.8	4.0	3.2	2.6	2.2
RTAK14-40A	6.2	5.4	4.4	3.6	2.8	2.2	1.8	1.4
RTAK16-50A	8.8	7.8	6.2	5.2	4.2	3.4	2.8	2.4
RTAK18-50A	6.8	6.0	4.8	3.8	3.0	2.4	2.0	1.6
RTAK20-50A	5.4	4.6	3.4	2.6	2.0	1.6	1.2	N/R
Group 2								
RTAK20-60B	10.2	9.0	8.8	7.3	6.0	4.9	4.0	3.3
RTAK25-70B	11.7	10.5	8.4	6.8	5.4	4.4	3.5	2.7
RTAK30-80B	11.2	9.9	7.8	6.1	4.7	3.5	2.6	1.8
RTAK35-80C	10.6	9.3	7.1	5.4	4.0	2.9	1.9	1.1
RTAK40-80C	7.5	6.4	4.5	3.1	1.9	1.0	N/R	N/R

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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