architectural arealighting

RTS-A Series Poles

ROUND TAPERED STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

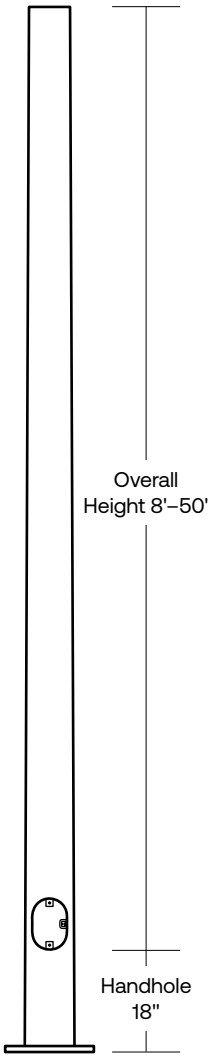
SPECIFICATIONS

CONSTRUCTION

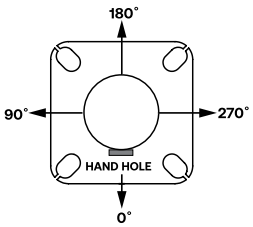
- Shaft: One-piece tapered steel with round cross section, Minimum yield of 55,000 psi; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36) Pole shafts taper at 0.14"/ft.
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- 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.
  Anchor bolt part numbers:
  Group 1: 1 X 36 X 4 — TAB-36-M38
  Group 2: 3/4 X 30 X 3 — TAB-30-M38
  Group 3: 1.25 X 42 X 6 - TAB-42-M38 AND 1 X 36 X 4 - TAB-36-M38
- Base cover:
  Group 1: Optional Square Base Cover (SBC), include option in ordering logic. If not selected, poles will be shipped with bolt covers only.
  Group 2: Poles have triangle base and do not have base covers.
  Group 3: Poles come standard with a Square Base Cover.
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over “white metal” steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable

INSTALLATION

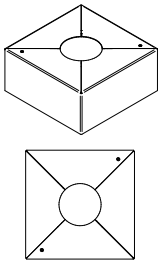
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



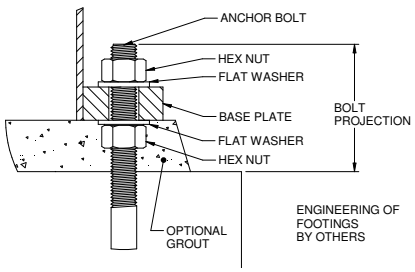
BASE



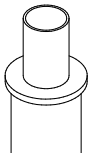
BASE COVER[1]



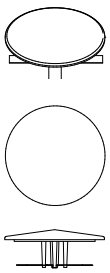
BASE DETAIL



TENON



POLE CAP



1 Optional for group 1 poles, standard for group 3 poles.

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ORDERING INFORMATION

Example: RTS-A–20–65–A–2L–DBT–SBC

RTS-A – [Height] – [Shaft] – [Thickness] – [Mounting] – [Finish] – [Options]

Series

RTS-A	Round Tapered Steel Pole EXO

Height

Reference page 3 Ordering matrix

Shaft

Reference page 3 Ordering matrix

Thickness

Reference page 3 Ordering matrix

A - .125" Wall

B - .188" Wall

Mounting

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)
TB	Tenon (2.875" OD)
TC	Tenon (3.5" OD)
OT	Open Top (includes pole cap)

Finish

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

Color Option

CC	Custom Color[1]

Options

GFI[2]	20 Amp GFCI Receptacle and Cover
EHH[2]	Extra Handhole
C05[2]	.5" Coupling
C07[2]	.75" Coupling
C20[2]	2" Coupling
MPB[2,3]	Mid-pole Luminaire Bracket
VM2	2nd mode vibration dampener
LAB	Less Anchor Bolts
UL	UL Certified
SBC[4]	Square Base Cover

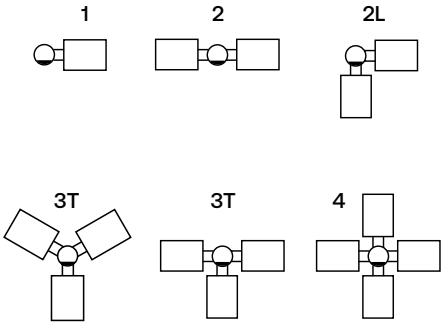
Accessories (Order Separately)

- ☐ **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)
3 Not available on the following poles: 20ft 6" .188, 25ft 7" .188, 30ft, 8" .188, 35ft 9.5" .125
4 Specify if needed for group 1 poles. Not available with Group 2 poles

MOUNTING ORIENTATION

Denotes handhole location



RTS-A Series Poles

ROUND TAPERED STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

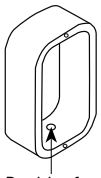
ORDERING INFORMATION (CONTINUED)

CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE (SUGGESTED)	BOLT CIRCLE (RANGE)	BASE PLATE SQUARE	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT
	FEET	METERS								
Group 1										
RTS-A-20-65-A	20	6.1	6.5" x 3.7"	.119"	10"	9.5" - 13.0"	12.5" - Square	1" x 36" x 4"	4.25"	187
RTS-A-25-70-A	25	7.6	7.0" x 3.5"	.119"	11"	10" - 13.0"	12.5" - Square	1" x 36" x 4"	4.25"	226
RTS-A-30-80-A	30	9.1	8.0" x 3.8"	.119"	12"	11" - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	290
RTS-A-35-85-A	35	10.7	8.5" x 3.6"	.119"	13"	11.5" - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	340
RTS-A-39-90-A	39	11.9	9.0" x 3.5"	.119"	13"	12.5' - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	382
Group 2										
RTS-A-10-50-A	10	3	4.4" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	60
RTS-A-12-50-A	12	3.7	4.7" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	70
RTS-A-14-50-A	14	4.3	5.0" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	80
RTS-A-16-50-A	16	4.9	5.2" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	95
RTS-A-18-50-A	18	5.5	5.5" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	110
RTS-A-20-60-A	20	6.1	5.8" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	125
Group 3										
RTS-A-25-70-B	25	7.6	7.0" x 3.5"	.179"	10.0"	9.5 - 10.5"	10.88" - Square	1" x 36" x 4"	4.25"	280
RTS-A-30-80-B	30	9.1	8.0" x 3.8"	.179"	11.0"	10.5 - 11.5"	11.5" - Square	1.25" x 42" x 6"	5.0"	380
RTS-A-35-95-A	35	10.7	9.5" x 4.6"	.119"	13.0"	12.5 - 13.5"	13.0" - Square	1" x 36" x 4"	4.25"	370
RTS-A-40-90-A	40	12.2	9.0" x 3.6"	.119"	12.5"	12 - 13.0"	12.38" - Square	1" x 36" x 4"	4.25"	355
RTS-A-40-90-B	40	12.2	9.0" x 3.6"	.179"	12.5"	12 - 13.0"	12.38" - Square	1.25" x 42" x 6"	5.0"	515
RTS-A-45-10-A	45	13.7	10.0" x 3.7"	.119"	13.5"	13 - 14.0"	14.0" - Square	1" x 36" x 4"	4.25"	450
RTS-A-50-10-A	50	15.2	10.0" x 3.0"	.119"	13.5"	13 - 14.0"	14.0" - Square	1" x 36" x 4"	4.25"	475
RTS-A-50-10-B	50	15.2	10.0" x 3.0"	.179"	13.5"	13 - 14.0"	14.0" - Square	1.25" x 42" x 6"	5.0"	680

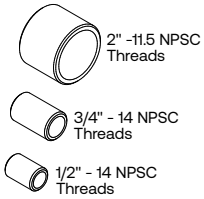
Notes:
- Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.
- For more information about pole vibration and vibration dampeners, please consult factory.
- 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



C05 / C07 / C20
Coupling



VM2 [1]
2nd mode vibration dampener

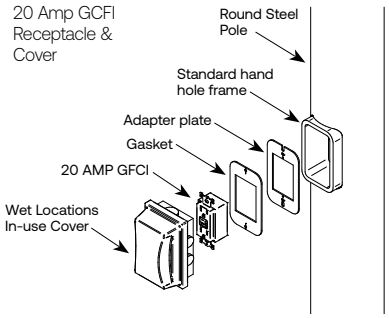
Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX
Field-installed 2nd mode vibration dampener

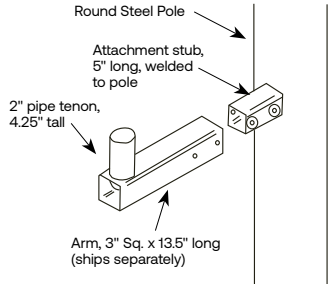
VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

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



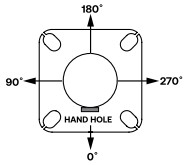
MPB
Mid Pole Bracket

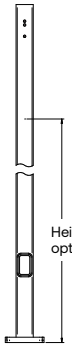


Option Orientation

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: RTS-A-20-65-A-TA-DB-C05-0-15 (.5" coupling on the handhole/arm side of pole, 15' up from the pole base) 1' spacing required between option. Consult factory for other configurations.





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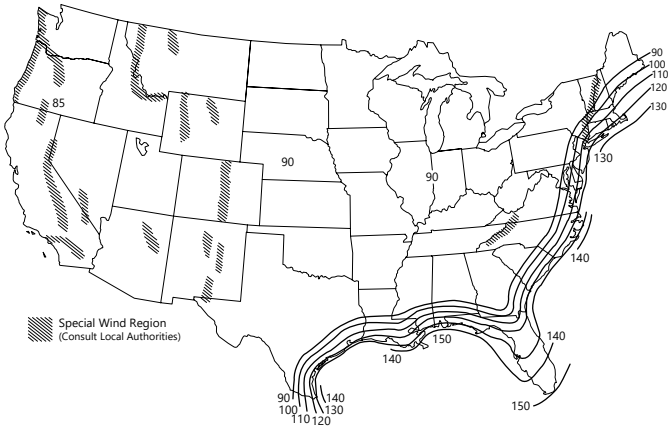
WIND MAPS

ASCE7-05 WIND MAP



HAWAII – 105 mph
PUERTO RICO – 145 mph

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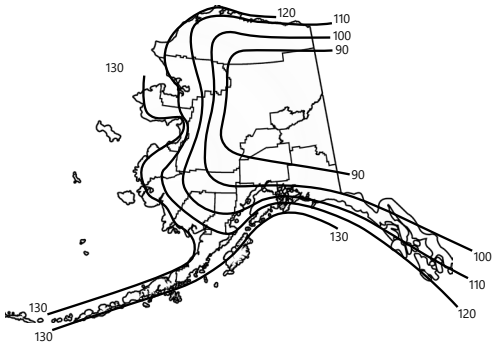
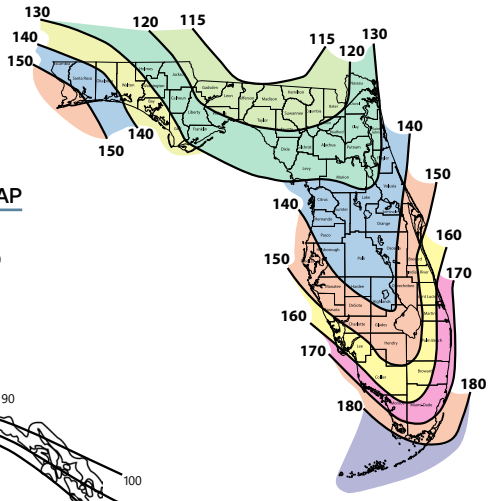
ALASKA REGION WIND MAP



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
RTS-A-20-65-A	20.0	23.1	21.5	17.4	14.4	10.0	8.3	7.0	6.0
RTS-A-25-70-A	25.0	21.2	17.9	14.5	11.8	7.5	6.0	5.1	4.3
RTS-A-30-80-A	30.0	19.5	15.2	12.1	9.8	7.1	5.8	4.8	3.9
RTS-A-35-85-A	35.0	14.9	12.7	10.0	8.7	5.3	4.2	3.3	2.6
RTS-A-39-90-A	39.0	13.4	10.6	8.3	6.5	4.5	3.3	2.4	1.8
RTS-A-10-50-A	10.0	22.0	21.5	17.4	14.4	12.0	10.1	8.7	7.5
RTS-A-12-50-A	12.0	18.8	17.9	14.5	11.8	9.8	8.2	7.0	6.0
RTS-A-14-50-A	14.0	17.7	15.2	12.1	9.8	8.1	6.7	5.6	4.8
RTS-A-16-50-A	16.0	16.5	12.7	10.0	8.0	6.5	5.4	4.5	3.8
RTS-A-18-50-A	18.0	14.0	10.6	8.3	6.5	5.2	4.2	3.5	2.9
RTS-A-20-60-A	20.0	12.1	8.9	6.8	5.3	4.1	3.3	2.6	2.2
RTS-A-25-70-B	25.0	25.0	22.6	18.1	14.7	12.2	10.3	8.8	7.6
RTS-A-30-80-B	30.0	25.0	25.0	25.0	21.6	18.1	15.4	13.2	11.4
RTS-A-35-95-A	35.0	20.0	17.7	14.1	11.5	9.4	7.8	6.5	5.4
RTS-A-40-90-A	40.0	15.5	13.6	10.6	8.3	6.7	5.4	4.4	3.6
RTS-A-40-90-B	40.0	25.0	25.0	20.2	16.5	13.7	11.4	9.7	8.2
RTS-A-45-10-A	45.0	12.4	10.8	8.1	6.1	4.8	3.7	2.9	2.1
RTS-A-50-10-A	50.0	9.5	8.2	5.8	4.2	2.9	2.0	1.2	0.7
RTS-A-50-10-B	50.0	19.2	17.4	13.6	10.7	8.5	6.9	5.5	4.4

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
RTS-A-20-65-A	25.0	25.0	25.0	21.5	18.3	15.7	13.6	11.9
RTS-A-25-70-A	25.0	23.0	19.2	16.1	13.6	11.5	9.8	8.4
RTS-A-30-80-A	21.1	19.0	15.5	12.8	10.6	8.8	7.3	6.0
RTS-A-35-85-A	17.1	15.3	12.3	9.9	8.0	6.4	5.1	1.0
RTS-A-39-90-A	15.4	13.7	10.8	8.6	6.7	5.2	4.0	3.0
RTS-A-10-50-A	21.8	20.2	17.2	14.7	12.7	11.2	9.7	8.7
RTS-A-12-50-A	17.4	16.7	14.2	12.2	10.5	9.0	8.0	7.0
RTS-A-14-50-A	15.0	14.2	12.0	10.0	8.7	7.5	6.5	5.7
RTS-A-16-50-A	12.2	11.7	9.7	8.2	7.0	6.0	5.2	4.5
RTS-A-18-50-A	11.1	9.7	8.0	6.7	5.5	4.7	4.0	3.5
RTS-A-20-60-A	9.2	8.2	6.7	5.5	4.5	3.7	3.0	2.5
RTS-A-25-70-B	25.0	21.1	17.8	15.2	13.1	11.4	10.0	8.9
RTS-A-30-80-B	25.0	30.2	25.7	22.2	19.4	17.0	15.0	13.4
RTS-A-35-95-A	20.0	16.5	13.9	11.8	10.1	8.7	7.6	6.5
RTS-A-40-90-A	15.5	12.6	10.4	8.6	7.3	6.1	5.2	4.5
RTS-A-40-90-B	25.0	23.5	19.9	17.0	14.6	12.7	11.1	9.8
RTS-A-45-10-A	12.4	9.9	8.0	6.5	5.3	4.3	3.5	2.9
RTS-A-50-10-A	9.5	7.4	5.7	4.4	3.3	2.4	1.8	1.2
RTS-A-50-10-B	19.2	16.1	13.3	11.1	9.3	7.8	6.6	5.6

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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