

RTSH Series Poles

ROUND TAPERED STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

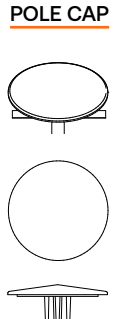
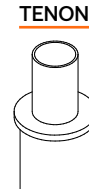
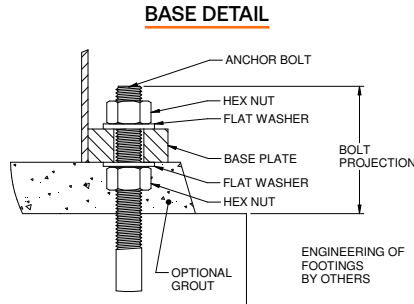
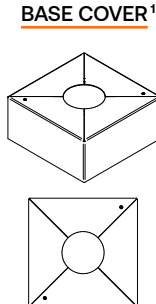
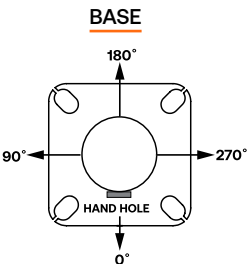
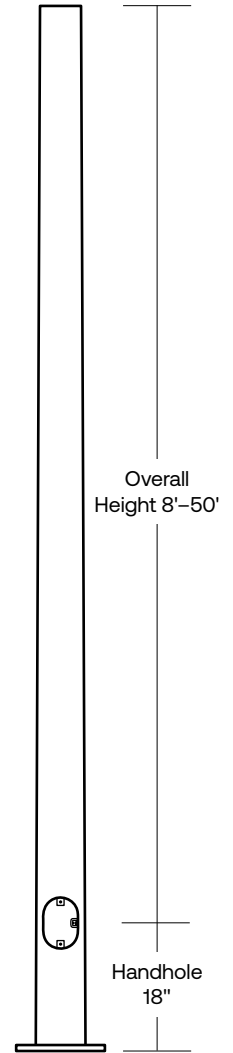
SPECIFICATIONS

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.
- 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



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

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ORDERING INFORMATION

Example: RTSH20-65A-1-B1-BLT

RTSH	Height	Shaft	Thickness	Mounting	Drill Pattern	Finish	Options
Series	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix				
RTSH Round Tapered Steel Pole EXO			A - .125" Wall B - .188" 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) TB Tenon (2.875" OD) TC Tenon (3.5" OD) OT Open Top (includes pole cap)	B1 Cruiser, "AM" arm B3 2 bolt (2-1/2" spacing), Viper "A" arm S2 2 bolt (3-1/2" spacing), Viper "AD" arm 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 VG Verde Green Textured Color Option CC Custom Color ¹	GFI ² 20 Amp GFCI Receptacle and Cover EH 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

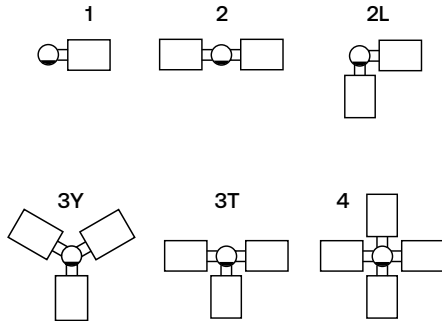
Accessories (Order Separately)

- ☐ **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

- Custom colors available; RAL number preferable
- Specify option location using logic found on page 3 (Option Orientation).
- Not available on the following poles: 20ft 6" .188, 25ft 7" .188, 30ft 8" .188, 35ft 9.5" .125
- Specify if needed for group 1 poles. Not available with Group 2 poles

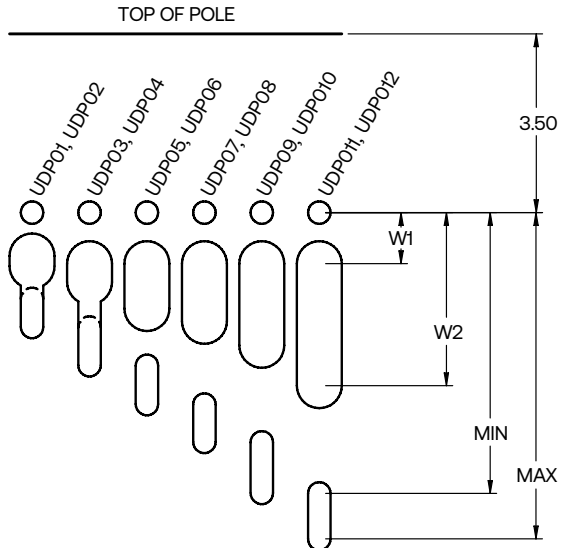
MOUNTING ORIENTATION

○ ← Denotes handhole location



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
3/8" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7/8" to 1/2"	UDP02	UDP04	UDP06	UDP08	UDP10	UDP12
"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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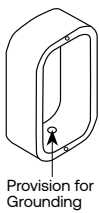
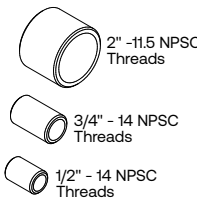
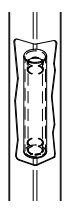

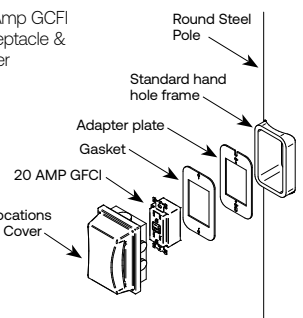
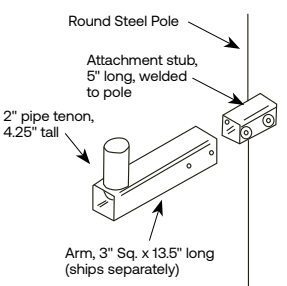
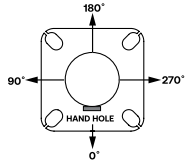
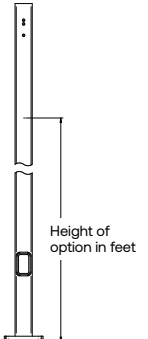
DATE:	LOCATION:
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ORDERING INFORMATION (CONTINUED)

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										
RTSH20-65A	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
RTSH25-70A	25	7.6	7.0" x 3.5"	.119"	11"	10" - 13.0"	12.5" - Square	1" x 36" x 4"	4.25"	226
RTSH30-80A	30	9.1	8.0" x 3.8"	.119"	12"	11" - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	290
RTSH35-85A	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
RTSH39-90A	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										
RTSH10-50A	10	3	4.4" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	60
RTSH12-50A	12	3.7	4.7" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	70
RTSH14-50A	14	4.3	5.0" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	80
RTSH16-50A	16	4.9	5.2" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	95
RTSH18-50A	18	5.5	5.5" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	110
RTSH20-60A	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										
RTSH25-70B	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
RTSH30-80B	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
RTSH35-95A	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
RTSH40-90A	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
RTSH40-90B	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
RTSH45-10A	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
RTSH50-10A	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
RTSH50-10B	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.

<p>EHH Extra handhole</p>  <p>Provision for Grounding</p>	<p>C05 / C07 / C20 Coupling</p>  <p>2" -11.5 NPSC Threads 3/4" - 14 NPSC Threads 1/2" - 14 NPSC Threads</p>	<p>VM2¹ 2nd mode vibration dampener</p>  <p>Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p>	<p>VM2SXX Field-installed 2nd mode vibration dampener</p>  <p>VM2S08 - 8' VM2S12 - 12' VM2S16 - 16' VM2S20 - 20' VM2S24 - 24'</p> <p>Field installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.</p>
<p>GFI 20 Amp GCFI Receptacle & Cover</p>  <p>Wet Locations In-use Cover</p>	<p>MPB Mid Pole Bracket</p>  <p>Attachment stub, 5" long, welded to pole 2" pipe tenon, 4.25" tall Arm, 3" Sq. x 13.5" long (ships separately)</p>	<p>Option Orientation Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).</p> <p>Example: Option C05 should be ordered as: RTSH20-65A-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.</p>  	

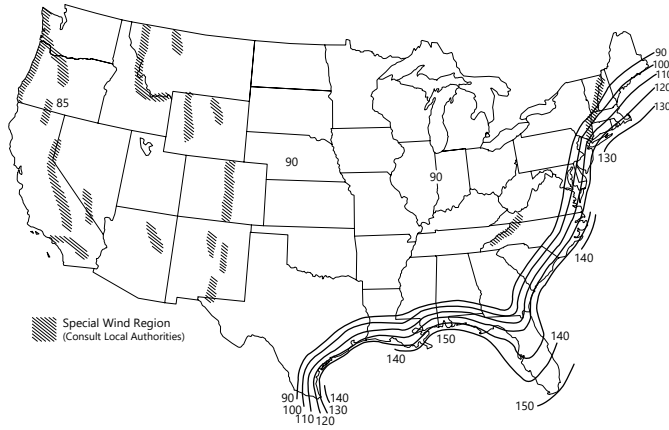
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WIND MAPS

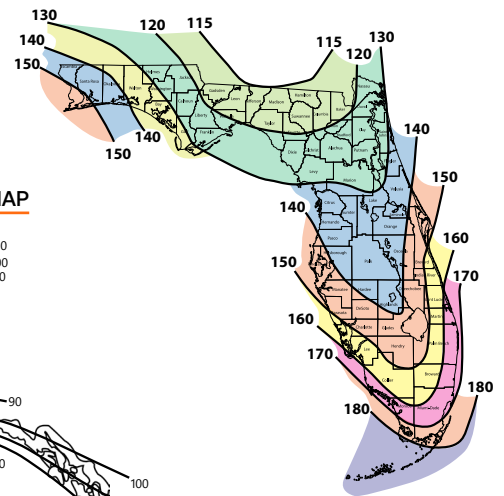
ASCE 7-22 WIND MAP



HAWAII – 105 mph
PUERTO RICO – 145 mph

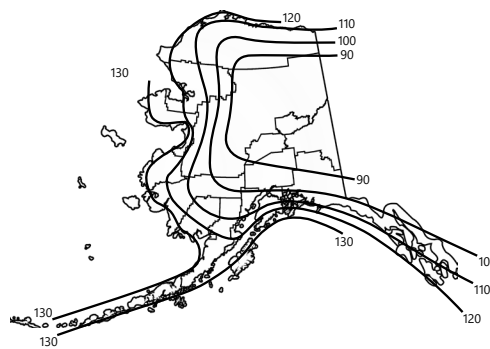
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**AASHTO LRFDLTS-1

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 7-22 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	
RTSH20-65A	20.0	23.1	21.5	17.4	14.4	10.0	8.3	7.0	6.0	
RTSH25-70A	25.0	21.2	17.9	14.5	11.8	7.5	6.0	5.1	4.3	
RTSH30-80A	30.0	19.5	15.2	12.1	9.8	7.1	5.8	4.8	3.9	
RTSH35-85A	35.0	14.9	12.7	10.0	8.7	5.3	4.2	3.3	2.6	
RTSH39-90A	39.0	13.4	10.6	8.3	6.5	4.5	3.3	2.4	1.8	
RTSH10-50A	10.0	22.0	21.5	17.4	14.4	12.0	10.1	8.7	7.5	
RTSH12-50A	12.0	18.8	17.9	14.5	11.8	9.8	8.2	7.0	6.0	
RTSH14-50A	14.0	17.7	15.2	12.1	9.8	8.1	6.7	5.6	4.8	
RTSH16-50A	16.0	16.5	12.7	10.0	8.0	6.5	5.4	4.5	3.8	
RTSH18-50A	18.0	14.0	10.6	8.3	6.5	5.2	4.2	3.5	2.9	
RTSH20-60A	20.0	12.1	8.9	6.8	5.3	4.1	3.3	2.6	2.2	
RTSH25-70B	25.0	25.0	22.6	18.1	14.7	12.2	10.3	8.8	7.6	
RTSH30-80B	30.0	25.0	25.0	25.0	21.6	18.1	15.4	13.2	11.4	
RTSH35-95A	35.0	20.0	17.7	14.1	11.5	9.4	7.8	6.5	5.4	
RTSH40-90A	40.0	15.5	13.6	10.6	8.3	6.7	5.4	4.4	3.6	
RTSH40-90B	40.0	25.0	25.0	20.2	16.5	13.7	11.4	9.7	8.2	
RTSH45-10A	45.0	12.4	10.8	8.1	6.1	4.8	3.7	2.9	2.1	
RTSH50-10A	50.0	9.5	8.2	5.8	4.2	2.9	2.0	1.2	0.7	
RTSH50-10B	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	
RTSH20-65A	25.0	25.0	25.0	21.5	18.3	15.7	13.6	11.9	
RTSH25-70A	25.0	23.0	19.2	16.1	13.6	11.5	9.8	8.4	
RTSH30-80A	21.1	19.0	15.5	12.8	10.6	8.8	7.3	6.0	
RTSH35-85A	17.1	15.3	12.3	9.9	8.0	6.4	5.1	4.0	
RTSH39-90A	15.4	13.7	10.8	8.6	6.7	5.2	4.0	3.0	
RTSH10-50A	21.8	20.2	17.2	14.7	12.7	11.2	9.7	8.7	
RTSH12-50A	17.4	16.7	14.2	12.2	10.5	9.0	8.0	7.0	
RTSH14-50A	15.0	14.2	12.0	10.0	8.7	7.5	6.5	5.7	
RTSH16-50A	12.2	11.7	9.7	8.2	7.0	6.0	5.2	4.5	
RTSH18-50A	11.1	9.7	8.0	6.7	5.5	4.7	4.0	3.5	
RTSH20-60A	9.2	8.2	6.7	5.5	4.5	3.7	3.0	2.5	
RTSH25-70B	25.0	21.1	17.8	15.2	13.1	11.4	10.0	8.9	
RTSH30-80B	25.0	30.2	25.7	22.2	19.4	17.0	15.0	13.4	
RTSH35-95A	20.0	16.5	13.9	11.8	10.1	8.7	7.6	6.5	
RTSH40-90A	15.5	12.6	10.4	8.6	7.3	6.1	5.2	4.5	
RTSH40-90B	25.0	23.5	19.9	17.0	14.6	12.7	11.1	9.8	
RTSH45-10A	12.4	9.9	8.0	6.5	5.3	4.3	3.5	2.9	
RTSH50-10A	9.5	7.4	5.7	4.4	3.3	2.4	1.8	1.2	
RTSH50-10B	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 7-22 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