RTS-H SERIES POLES

ROUND TAPERED STEEL

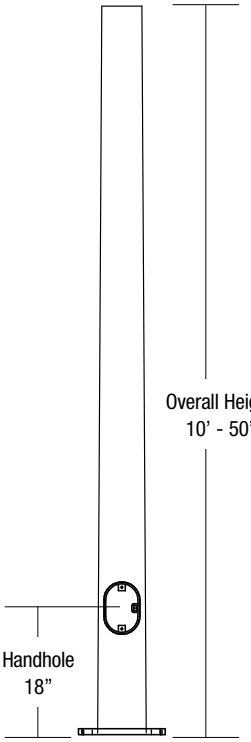
Cat.#

Job

Type

HUBBELL Outdoor Lighting

Approvals



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 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 .14"/ft.

GROUP 1

- 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
- BOLT COVERS: Individual anchor bolt nut covers provided as standard
- BASE COVER: Optional two-piece square base cover available
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HANDHOLE: 4" X 6.5" handhole opening with cover and grounding provision. The handhole is located 18" from the base of the pole.

GROUP 2

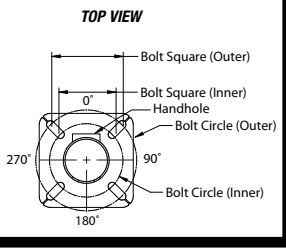
- ANCHOR BOLTS: Supplied with (3) galvanized anchor bolts with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling. Top nut is acorn nut.
- POLE CAP: 3" pole top standard; Supplied with removable cover when applicable; Tenon configurations also available
- HANDHOLE: 3" X 5" handhole opening with cover and grounding provision. The handhole is located 18" from the base of the pole.

GROUP 3

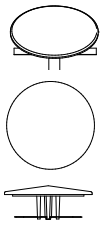
- ANCHOR BOLTS: Supplied with (4) galvanized anchor bolts with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
- BASE COVER: Two-piece square base cover supplied as standard.
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HANDHOLE: 4" X 6.5" handhole opening with cover and grounding provision. The handhole is located 18" from the base of the pole.

FINISH

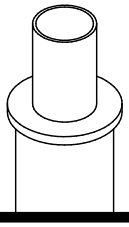
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in six standard colors; Custom colors available, RAL number preferred



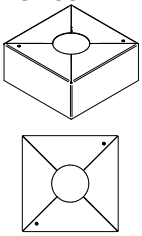
POLE CAP



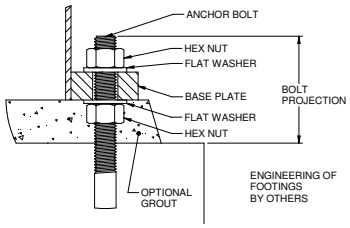
TENON



BASE COVER



BASE DETAIL



ORDERING INFORMATION

Reference page 2 for available configurations

ORDERING EXAMPLE:

RTS-H - 20 - 65 - A - 2 - S2 - DB - SBC

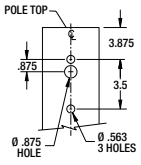
SERIES	HEIGHT	SHAFT	THICKNESS
RTS-H Round Tapered Steel Pole Hubbell Outdoor	Reference page 2 Ordering matrix	Bottom O.D. Reference page 2 Ordering matrix	Reference page 2 Ordering matrix

MOUNTING

- **1** Single arm mount
- **2** Two fixtures at 180°
- **2L** Two fixtures at 90°
- **3T** Three fixtures at 90°
- **3Y** Three 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)

DRILL PATTERN

- **S2** #2 2 bolt 3.5" pattern



#2 DRILL PATTERN

FINISH

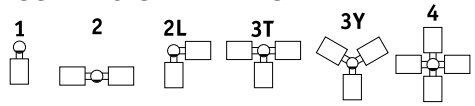
- **DB** Dark Bronze Textured
- **BL** Black Textured
- **WH** White Textured
- **PS** Platinum Silver Smooth
- **GT** Graphite Textured
- **GYS** Gray Smooth
- **CC** Custom Color

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
- **MPB**[1] Mid-pole Luminaire Bracket
- **VM2** 2nd mode vibration damper
- **LAB** Less Anchor Bolts
- **SBC** Square Base Cover

MOUNTING ORIENTATION

Denotes handhole location



ACCESSORIES- Order Separately

Catalog Number	Description
VM2SXX	2nd mode vibration damper

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

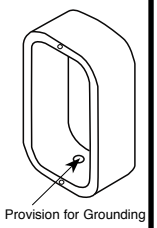
HUBBELL Lighting

ORDERING INFORMATION Cont.

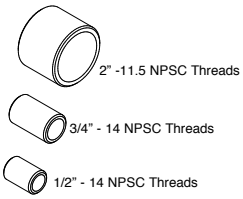
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)		Base Plate Square	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters								
Group 1										
RTS-H-20-65-A	20	6.1	6.5" x 3.7"	.119"	10"	9.5" - 13.0"	12.5" - Square	1" x 36" x 4"	4.25"	187
RTS-H-25-70-A	25	7.6	7.0" x 3.5"	.119"	10"	10" - 13.0"	12.5" - Square	1" x 36" x 4"	4.25"	226
RTS-H-30-80-A	30	9.1	8.0" x 3.8"	.119"	11"	11" - 13.5"	12.5" - Square	1" x 36" x 4"	4.25"	290
RTS-H-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-H-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-H-10-50-A	10	3.0	4.4" x 3.0"	.119"	8"	8"	8.5" - Triangular	3/4" x 17" x 3"	3.5"	60
RTS-H-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-H-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-H-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-H-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-H-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-H-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-H-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-H-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-H-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-H-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-H-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-H-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-H-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

NOTE Factory supplied template must be used when setting anchor bolts. Hubbell Lighting 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

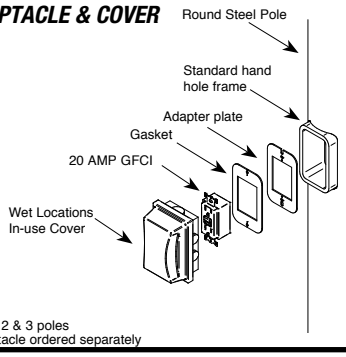
Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX - VIBRATION DAMPER 2ND MODE

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

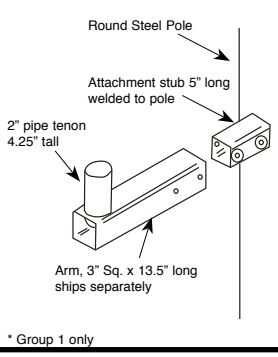
Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI – 20 AMP GFCI RECEPTACLE & COVER



* Group 2 & 3 poles
Receptacle ordered separately

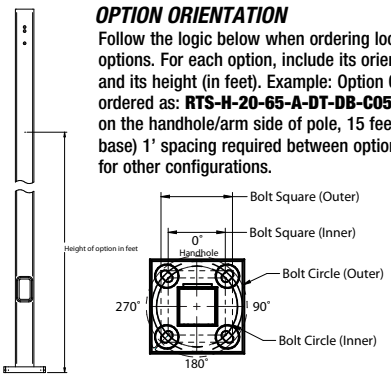
MPB - MID POLE BRACKET



* Group 1 only

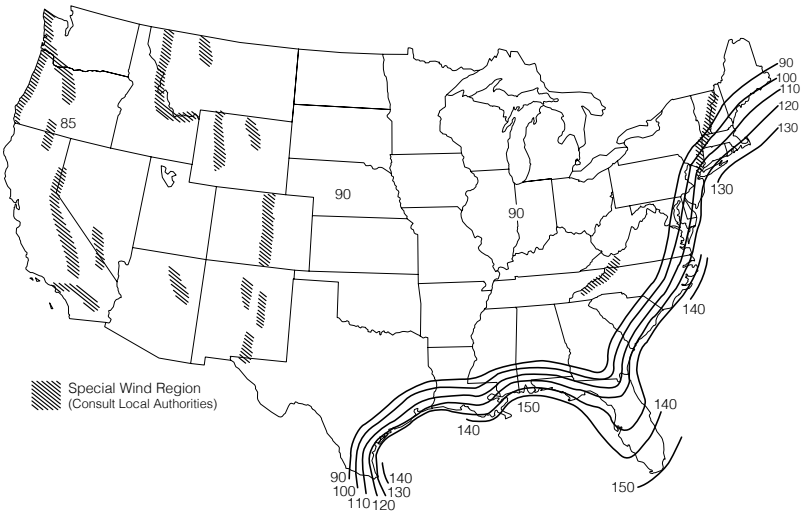
OPTION ORIENTATION

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: **RTS-H-20-65-A-DT-DB-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.



For more information about pole vibration and vibration dampers, please consult http://cdn.hubbelloutdoor.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

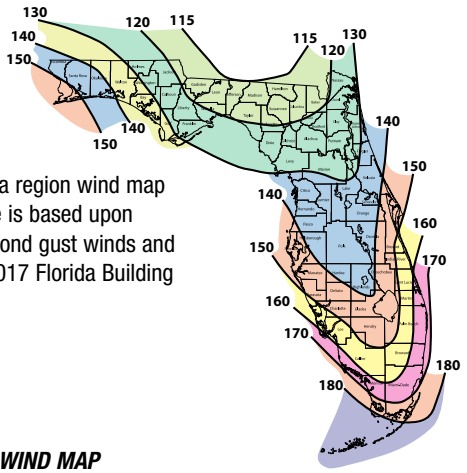
ASCE7-05 WIND MAP



***PRINTED WITH PERMISSION FROM ASCE**

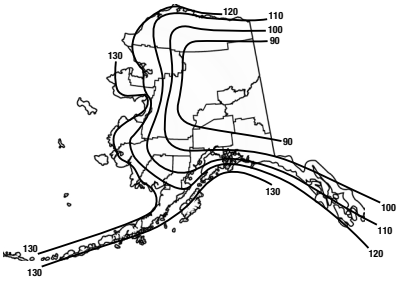
HAWAII – 105 mph
PUERTO RICO – 145 mph

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	**Height**	**85**	**90**	**100**	**110**	**120**	**130**	**140**	**150**
RTS-H-20-65-A	20	23.1	21.5	17.4	14.4	10.0	8.3	7.0	6.0
RTS-H-25-70-A	25	21.2	17.9	14.5	11.8	7.5	6.0	5.1	4.3
RTS-H-30-80-A	30	19.5	15.2	12.1	9.8	7.1	5.8	4.8	3.9
RTS-H-35-85-A	35	14.9	12.7	10.0	8.7	5.3	4.2	3.3	2.6
RTS-H-39-90-A	39	13.4	10.6	8.3	6.5	4.5	3.3	2.4	1.8
RTS-H-10-50-A	10	22.0	21.5	17.4	14.4	12	10.1	8.7	7.5
RTS-H-12-50-A	12	18.8	17.9	14.5	11.8	9.8	8.2	7	6
RTS-H-14-50-A	14	17.7	15.2	12.1	9.8	8.1	6.7	5.6	4.8
RTS-H-16-50-A	16	16.5	12.7	10	8	6.5	5.4	4.5	3.8
RTS-H-18-50-A	18	14.0	10.6	8.3	6.5	5.2	4.2	3.5	2.9
RTS-H-20-60-A	20	12.1	8.9	6.8	5.3	4.1	3.3	2.6	2.2
RTS-H-25-70-B	25	25.0	22.6	18.1	14.7	12.2	10.3	8.8	7.6
RTS-H-30-80-B	30	25.0	25.0	25.0	21.6	18.1	15.4	13.2	11.4
RTS-H-35-95-A	35	20.0	17.7	14.1	11.5	9.4	7.8	6.5	5.4
RTS-H-40-90-A	40	15.5	13.6	10.6	8.3	6.7	5.4	4.4	3.6
RTS-H-40-90-B	40	25.0	25.0	20.2	16.5	13.7	11.4	9.7	8.2
RTS-H-45-10-A	45	12.4	10.8	8.1	6.1	4.8	3.7	2.9	2.1
RTS-H-50-10-A	50	9.5	8.2	5.8	4.2	2.9	2.0	1.2	0.7
RTS-H-50-10-B	50	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								
Catalog Number	**115**	**120**	**130**	**140**	**150**	**160**	**170**	**180**
RTS-H-20-65-A	25.0	25.0	25.0	21.5	18.3	15.7	13.6	11.9
RTS-H-25-70-A	25.0	23.0	19.2	16.1	13.6	11.5	9.8	8.4
RTS-H-30-80-A	21.1	19.0	15.5	12.8	10.6	8.8	7.3	6.0
RTS-H-35-85-A	17.1	15.3	12.3	9.9	8.0	6.4	5.1	1.0
RTS-H-39-90-A	15.4	13.7	10.8	8.6	6.7	5.2	4.0	3.0
RTS-H-10-50-A	21.8	20.2	17.2	14.7	12.7	11.2	9.7	8.7
RTS-H-12-50-A	17.4	16.7	14.2	12.2	10.5	9.0	8.0	7.0
RTS-H-14-50-A	15.0	14.2	12.0	10.0	8.7	7.5	6.5	5.7
RTS-H-16-50-A	12.2	11.7	9.7	8.2	7.0	6.0	5.2	4.5
RTS-H-18-50-A	11.1	9.7	8.0	6.7	5.5	4.7	4.0	3.5
RTS-H-20-60-A	9.2	8.2	6.7	5.5	4.5	3.7	3.0	2.5
RTS-H-25-70-B	25.0	21.1	17.8	15.2	13.1	11.4	10	8.9
RTS-H-30-80-B	25.0	30.2	25.7	22.2	19.4	17	15	13.4
RTS-H-35-95-A	20.0	16.5	13.9	11.8	10.1	8.7	7.6	6.5
RTS-H-40-90-A	15.5	12.6	10.4	8.6	7.3	6.1	5.2	4.5
RTS-H-40-90-B	25.0	23.5	19.9	17	14.6	12.7	11.1	9.8
RTS-H-45-10-A	12.4	9.9	8	6.5	5.3	4.3	3.5	2.9
RTS-H-50-10-A	9.5	7.4	5.7	4.4	3.3	2.4	1.8	1.2
RTS-H-50-10-B	19.2	16.1	13.3	11.1	9.3	7.8	6.6	5.6

NOTES

- 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 2017 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.hubbelloutdoor.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.