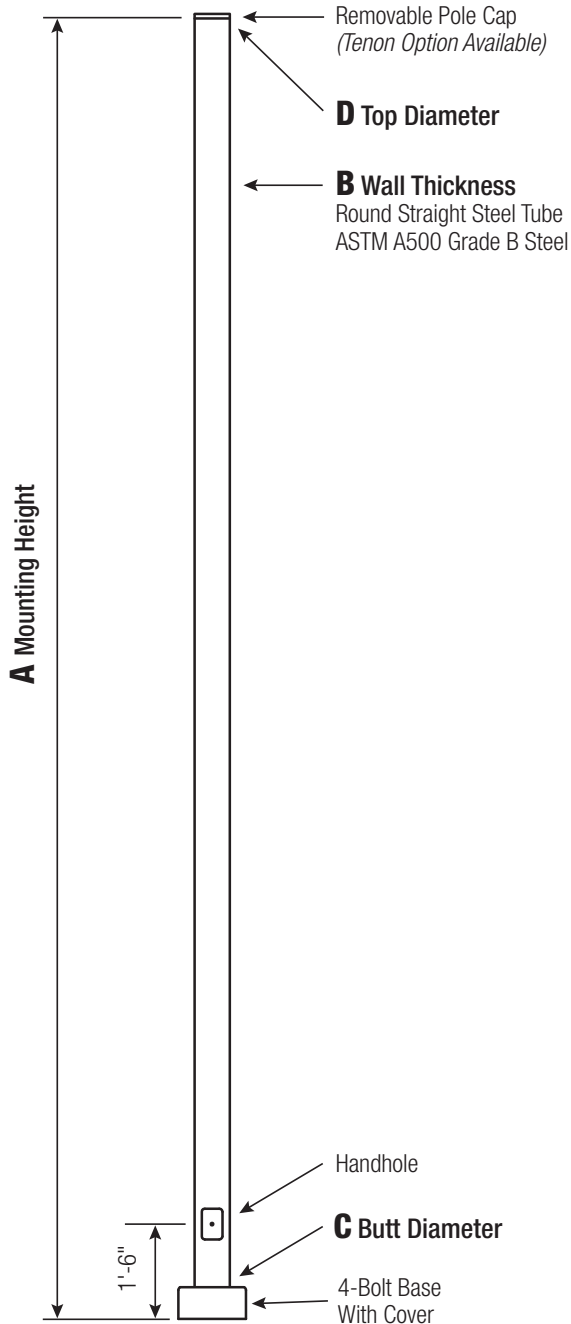


RSS

Round Straight Steel Pole No Arm — 4-Bolt Base



Powder Coated, Galvanized or Powder Coated over Galvanized Finish Per Customer Specification.

C BUTT DIA.	D TOP DIA.	F BOLT CIR. DIA.	G BASE SQ.	H BOLT PROJ.	I BOLT SIZE
3	3	7.5-8.5	8	3.75	.75 x 17 x 3
4	4	7.5-8.5	8	3.75	.75 x 17 x 3
4.5	4.5	7.5-8.5	8	3.75	.75 x 17 x 3
5 (11 Gauge)	5	7.5-8.5	8	3.75	.75 x 17 x 3
5 (7 Gauge)	5	8-9	8.75	4.875	1 x 36 x 4

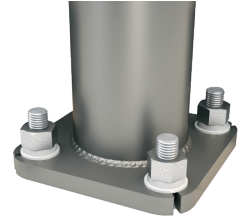
Dimensions in Inches

Pole

Pole shaft shall be weldable-grade, cold-rolled, commercial quality carbon steel tubing conforming to ASTM A500 Grade B. Options include 11 gauge and 7 gauge. All welds shall conform to AWS D1.1 using ER70S-6 electrodes.

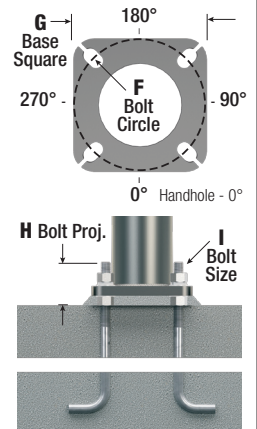
Base Style

4-Bolt Steel Base
Plate of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware.



Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153. Kits will contain eight (8) Hex Nuts, four (4) Lock Washers, and eight (8) Flat Washers (all components Galvanized Steel). A paper bolt circle template will be provided.



Handhole

3" Butt Diameter - Reinforced, 2" x 4" Handhole with cover and stainless steel screws. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

4"+ Butt Diameters - Reinforced, 3" x 5" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.



Vibration Damper

If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.



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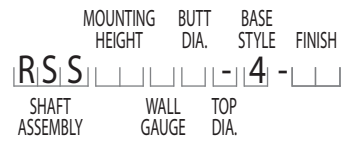
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WARNING: Do not install light pole without luminaire.

A MTG. HGT.	B WALL THICKNESS	C BUTT DIA.	TOTAL LUM. WEIGHT	MAXIMUM EPA								CATALOG NUMBER
				120	130	140	150	160	170	180		
8	11	3	267	10.3	8.6	7.3	6.2	5.3	4.6	4.0	RSS08B3-4-**	
8	11	4	300	19.9	16.8	14.3	12.3	10.7	9.4	8.4	RSS08B4-4-**	
10	11	3	170	8.1	6.7	5.6	4.7	4.0	3.4	2.9	RSS10B3-4-**	
10	11	4	300	15.7	13.1	11.1	9.4	8.2	7.2	6.4	RSS10B4-4-**	
10	11	4.5	300	20.5	17.2	14.7	12.7	11.1	9.8	8.7	RSS10BG-4-**	
12	11	3	118	6.5	5.3	4.3	3.6	3.0	2.4	2.0	RSS12B3-4-**	
12	11	4	288	12.6	10.4	8.7	7.3	6.3	5.5	4.8	RSS12B4-4-**	
12	11	4.5	300	16.6	13.8	11.7	10.1	8.8	7.7	6.8	RSS12BG-4-**	
14	11	3	86	5.1	4.1	3.3	2.6	2.1	1.6	1.2	RSS14B3-4-**	
14	11	4	211	10.3	8.4	6.9	5.7	4.9	4.3	3.7	RSS14B4-4-**	
14	11	4.5	300	13.6	11.2	9.4	8.1	7.0	6.1	5.4	RSS14BG-4-**	
16	11	3	66	4.0	3.1	2.4	1.8	1.3	0.9	0.6	RSS16B3-4-**	
16	11	4	161	8.4	6.8	5.4	4.4	3.7	3.2	2.7	RSS16B4-4-**	
16	11	4.5	232	11.2	9.1	7.6	6.4	5.5	4.8	4.2	RSS16BG-4-**	
18	11	3	52	3.0	2.2	1.6	1.1	0.6	-	-	RSS18B3-4-**	
18	11	4	127	6.7	5.3	4.1	3.2	2.6	2.2	1.9	RSS18B4-4-**	
18	11	4.5	183	9.1	7.2	5.9	5.0	4.3	3.7	3.2	RSS18BG-4-**	
20	11	3	42	2.1	1.4	0.9	-	-	-	-	RSS20B3-4-**	
20	11	4	102	5.3	4.0	3.0	2.1	1.7	1.4	1.1	RSS20B4-4-**	
20	11	4.5	148	7.3	5.6	4.5	3.8	3.2	2.7	2.3	RSS20BG-4-**	
20	11	5	204	9.6	7.9	6.6	5.6	4.8	4.1	3.6	RSS20B5-4-**	
20	7	5	296	15.8	13.2	11.2	9.6	8.3	7.2	6.4	RSS20D5-4-**	
22	11	4.5	122	5.8	4.3	3.3	2.7	2.2	1.8	1.5	RSS22BG-4-**	
22	11	5	169	7.7	6.3	5.3	4.4	3.7	3.2	2.7	RSS22B5-4-**	
22	7	5	244	13.3	11.1	9.3	8.0	6.9	5.9	5.2	RSS22D5-4-**	
25	11	4	65	2.4	1.4	0.7	-	-	-	-	RSS25B4-4-**	
25	11	4.5	94	3.8	2.5	1.8	1.3	1.0	0.7	-	RSS25BG-4-**	
25	11	5	130	5.4	4.3	3.5	2.8	2.3	1.9	1.6	RSS25B5-4-**	
25	7	5	188	10.2	8.4	7.0	5.9	5.0	4.3	3.7	RSS25D5-4-**	
30	11	4.5	64	1.2	-	-	-	-	-	-	RSS30BG-4-**	
30	11	5	89	2.3	1.5	1.1	0.7	-	-	-	RSS30B5-4-**	
30	7	5	130	6.1	4.8	3.9	3.2	2.6	2.1	1.7	RSS30D5-4-**	
35	7	5	94	2.9	2.0	1.4	1.0	0.6	-	-	RSS35D5-4-**	

Catalog Number System

The catalog number for Hapco poles utilizes the following identification system.



Catalog Number Example -

RSS 25 D 5 - 4 - BA

Round Straight Steel, 25' Mounting Height, 7 Gauge, 5" Butt Square, No Taper, 4-Bolt Base, Black Powder Coat Finish.

Wall Gauge

B = 11 Gauge
D = 7 Gauge

Butt Square

3 = 3"
4 = 4"
G = 4.5"
5 = 5"

Top Square

- = No Taper

Base Style

4 = 4-Bolt Anchor Base

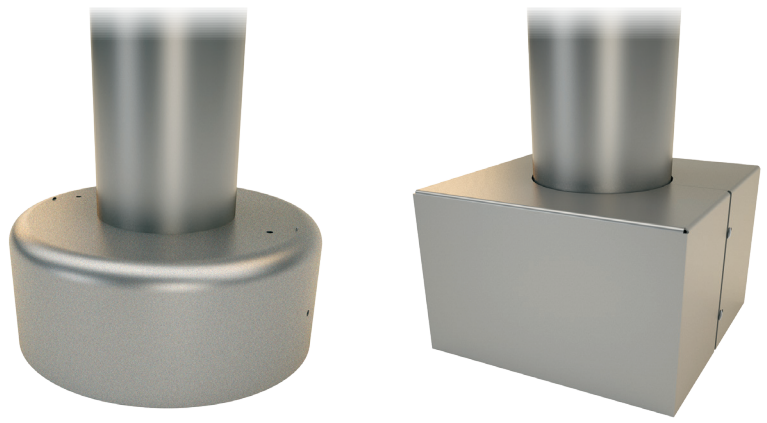
Finish

BA = Black Powder Coat
BH = White Powder Coat
BM = Dark Bronze Powder Coat
BV = Dark Green Powder Coat
GC = Gray Powder Coat
** = Specify Finish

Galvanized

1Q = Galvanized Only
1C = Black PC Over Galv.
1D = White PC Over Galv.
1B = D. Bronze PC Over Galv.
1Y = D. Green PC Over Galv.
1J = Gray PC Over Galv.
XX = Special PC Over Galv.*

* Provide RAL # or Sample Color Chip



Round ABS plastic Base Covers are standard in all 11 Gauge RSS poles specified in powder coat finishes BA-Black, BM-Dark Bronze and BH-White.

Square metal powder coated Base Covers are standard in all 11 Gauge RSS poles that are specified in colors other than BA, BM, and BH and in all 7 Gauge poles in ALL COLORS. Custom specification of RSS Square Metal style Base Covers in BA, BM and BH powder coated finishes is available.

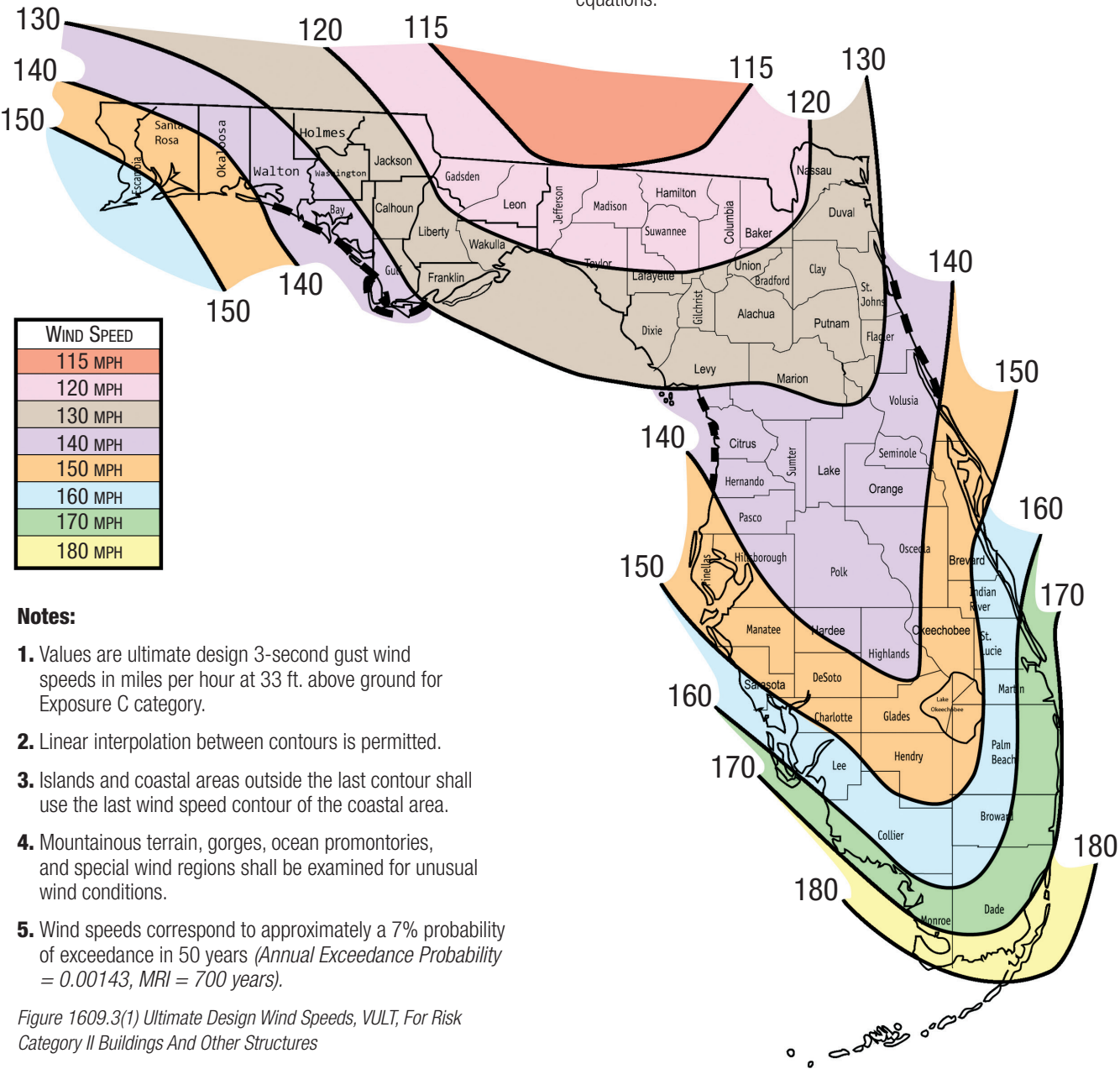
EPA Note:

EPAs based on side mounted fixture(s) not exceeding the height of the pole.

This Hapco Florida Building Code Guide has been developed to provide a quick reference for EPAs (Effective Projected Areas) meeting the 2023 FBC.

The EPAs in this publication are based on the 3-second gust wind map taken from the 2023 Florida Building Code (Figure 1609.3(1); Wind map shown below). These EPAs cannot be used with older or newer maps.

This wind map is to be used in conjunction with ASCE 7 Wind Pressure and AASHTO LTS-6 Design Equations. Wind regions from maps other than the one shown below may not represent the EPA values listed in this catalog. Please contact Hapco for more detailed information about EPA equations.



Notes:

1. Values are ultimate design 3-second gust wind speeds in miles per hour at 33 ft. above ground for Exposure C category.
2. Linear interpolation between contours is permitted.
3. Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
4. Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
5. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (Annual Exceedance Probability = 0.00143, MRI = 700 years).

Figure 1609.3(1) Ultimate Design Wind Speeds, VULT, For Risk Category II Buildings And Other Structures

Shielding Factor

The table shown at right will assist you in calculating the total EPA for many of the popular luminaire configurations. Using the shielding factor to calculate total EPA prevents an over-designed pole being used, resulting in cost savings.

LUMINAIRE CONFIGURATION	EPA	SHIELDING FACTOR	TOTAL EPA
2 @ 180°	1.5	X 2.0	= 3.0
3 @ 180°	1.5	X 3.0	= 4.5
4 @ 180°	1.5	X 4.0	= 6.0
3 @ 120°	1.5	X 2.3	= 3.45 (Shielded)
4 @ 90°	1.5	X 3.2	= 4.8 (Shielded)

Example assumes a single luminaire EPA of 1.5.

ASCE 7 Wind Load Design Assumptions:

- Risk Cat. II, MRI = 700 yrs., Exp. And Surface Roughness Cat. "C"
- $K_{zt} = 1.0, K_d = 1.0, G = 1.14, V_{ASD} = \sqrt{0.6} \cdot V_{ULT}$ (2024 FBC 1609.3.1)
- C_f = Drag Coefficients calculated per AASHTO LTS-6 (ASCE 7-16 C29.4)
- Strength Equations per AASHTO LTS-6 Allowable Stress Increase = 1.33 (ASCE 7-16 C29.4)

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