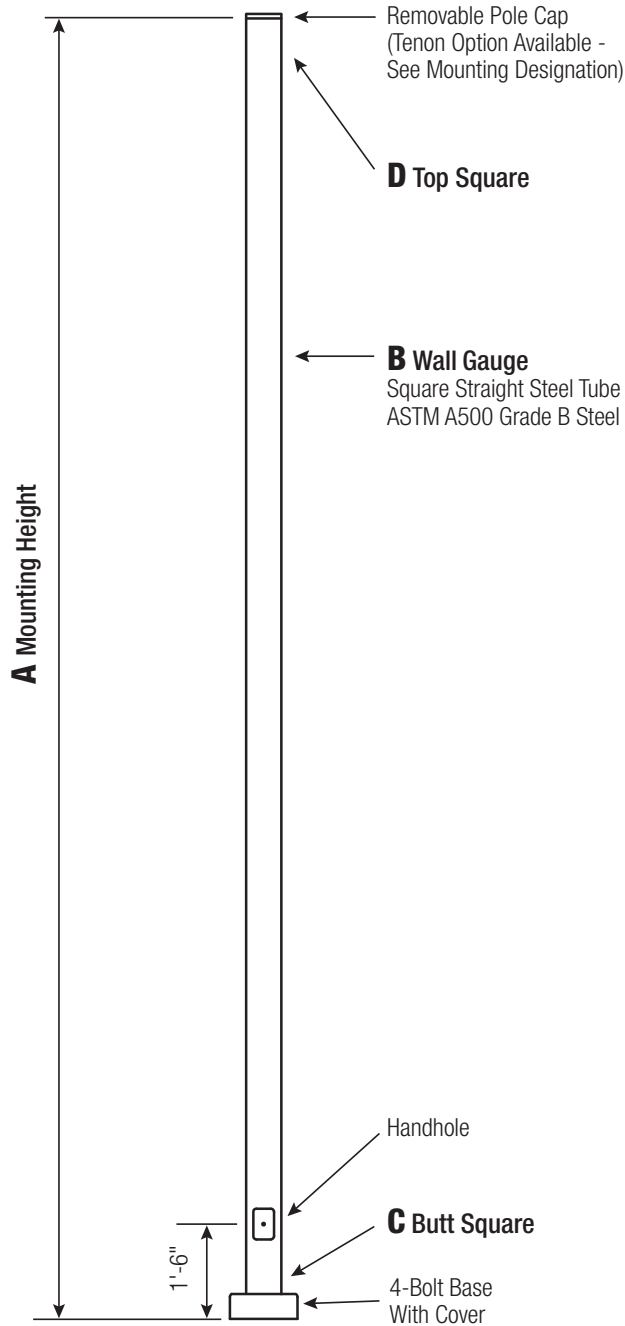


SSS

Square Straight Steel Pole No Arm — 4-Bolt Base



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

C BUTT SQ.	D TOP SQ.	F BOLT CIR. DIA.	G BASE SQ.	H BOLT PROJ.	I BOLT SIZE
4 (11 Gauge)	4	8 - 9	8	3.75	.75 x 17 x 3
4 (7 Gauge)	4	8 - 9	8	3.75	.75 x 30 x 3
5 (11 Gauge)*	5	10 - 12	11	3.75	.75 x 30 x 3
5 (7 Gauge)	5	10 - 12	11	4.875	1 x 36 x 4
6	6	11 - 13	12.5	4.875	1 x 36 x 4

*Requires the use of oversized washers (provided).

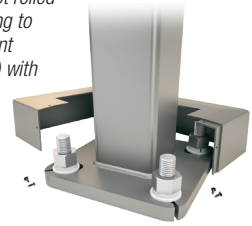
Dimensions in Inches

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 Plate Base
Flange of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware. Base Cover will be fabricated from ABS plastic or metal materials.



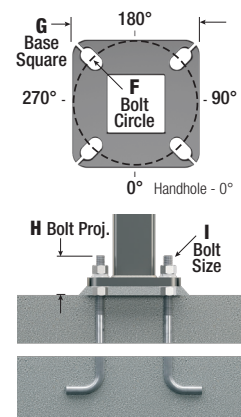
Handhole

Reinforced, 3" x 5" Handhole with Cover, Stainless Steel Screw and Backbar. A Grounding Provision incorporating a tapped 1/2"-13NC hole will be welded to the handhole frame.



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 bolt circle template will be provided.



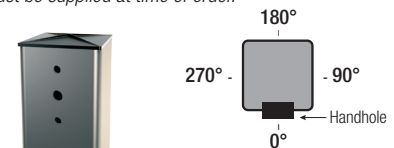
Vibration Damper

If determined necessary by Hapco, a top-mount, field installed First Mode Vibration Damper will be provided. Customer specification of the damper is available.

Mounting Designation

Side Drill Mount

For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time of order.



Tenon Mount

For Tenon Mount applications specify both Tenon diameter (2.375", 2.875", 3.5", 4", etc.) and length (3", 4", 5", 6", etc.).



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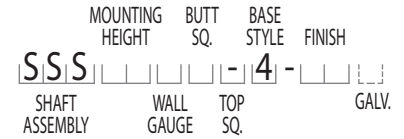
FLORIDA BUILDING CODE GUIDE
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WARNING: Do not install light pole without luminaire.

A MTG. HGT.	B WALL GAUGE	C BUTT SQ.	TOTAL LUM. WEIGHT	MAXIMUM EPA								CATALOG NUMBER
				120	130	140	150	160	170	180		
10	11	4	500	16.3	13.5	11.3	9.7	8.2	6.9	5.9	SSS10B4-4-*	
12	11	4	500	12.6	10.3	8.4	7.1	5.9	4.8	4.0	SSS12B4-4-*	
14	11	4	480	9.8	7.8	6.2	5.1	4.0	3.2	2.4	SSS14B4-4-*	
15	11	4	400	8.7	6.8	5.4	4.3	3.3	2.5	1.8	SSS15B4-4-*	
15	7	4	500	14.1	11.5	9.5	8.0	6.6	5.5	4.5	SSS15D4-4-*	
16	11	4	320	7.8	6.0	4.6	3.6	2.7	1.9	1.4	SSS16B4-4-*	
16	7	4	500	12.8	10.3	8.4	7.0	5.7	4.7	3.8	SSS16D4-4-*	
18	11	4	240	5.9	4.3	3.1	2.3	1.4	0.8	-	SSS18B4-4-*	
18	7	4	480	10.2	8.1	6.4	5.3	4.1	3.2	2.5	SSS18D4-4-*	
20	11	4	200	4.2	2.9	1.8	1.1	-	-	-	SSS20B4-4-*	
20	11	5	280	6.9	4.9	3.3	2.2	1.2	-	-	SSS20B5-4-*	
20	7	4	400	8.2	6.3	4.9	3.8	2.8	2.0	1.4	SSS20D4-4-*	
20	7	5	500	15.1	12.0	9.5	7.8	6.1	4.8	3.7	SSS20D5-4-*	
22	11	4	280	2.6	1.4	-	-	-	-	-	SSS22B4-4-*	
22	11	5	200	4.9	3.2	1.8	0.8	-	-	-	SSS22B5-4-*	
22	7	4	200	6.7	5.1	3.7	2.8	1.9	1.2	0.6	SSS22D4-4-*	
22	7	5	480	12.2	9.5	7.3	5.8	4.3	3.1	2.2	SSS22D5-4-*	
25	11	5	240	2.2	0.8	-	-	-	-	-	SSS25B5-4-*	
25	7	4	220	4.4	3.0	1.9	1.1	-	-	-	SSS25D4-4-*	
25	7	5	280	9.0	6.7	4.8	3.5	2.2	1.2	-	SSS25D5-4-*	
28	7	5	360	6.0	4.0	2.4	1.3	-	-	-	SSS28D5-4-*	
30	7	5	360	4.3	2.4	1.0	-	-	-	-	SSS30D5-4-*	
30	7	6	400	8.3	5.6	3.4	1.8	-	-	-	SSS30D6-4-*	
35	7	5	200	1.0	-	-	-	-	-	-	SSS35D5-4-*	
35	7	6	320	3.4	1.2	-	-	-	-	-	SSS35D6-4-*	

Catalog Number System

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



Catalog Number Example -

SSS 20 D 5 - 4 - BA

Square Straight Steel, 20' 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

4 = 4"
5 = 5"
6 = 6"

Top Square

- = No Taper

Base Style

4 = 4-Bolt Anchor Base

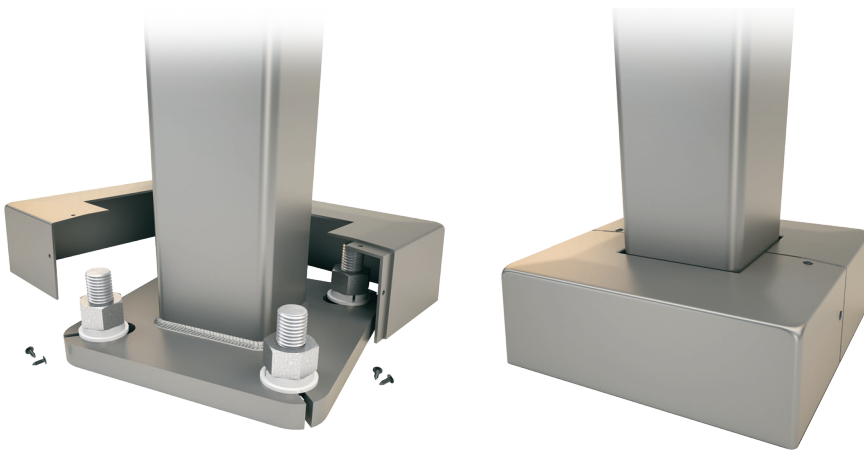
Finish

BA = Black Powder Coat
BH = White Powder Coat
BM = Dark Bronze Powder Coat
BV = Dark Green Powder Coat
GC = Gray Powder Coat
** = Specify Finish
00 = Galvanized Only (No Powder Coat)

Galvanization

G = Galvanized

Code "G" to be used only if pole is to be Galvanized



ABS plastic base covers are standard in all SSS poles specified in BA-Black, BM-Dark Bronze, and BH-White. SSS poles specified in all other colors will be manufactured of metal materials. Metal Base Covers for poles in BA, BM and BH can be specified.

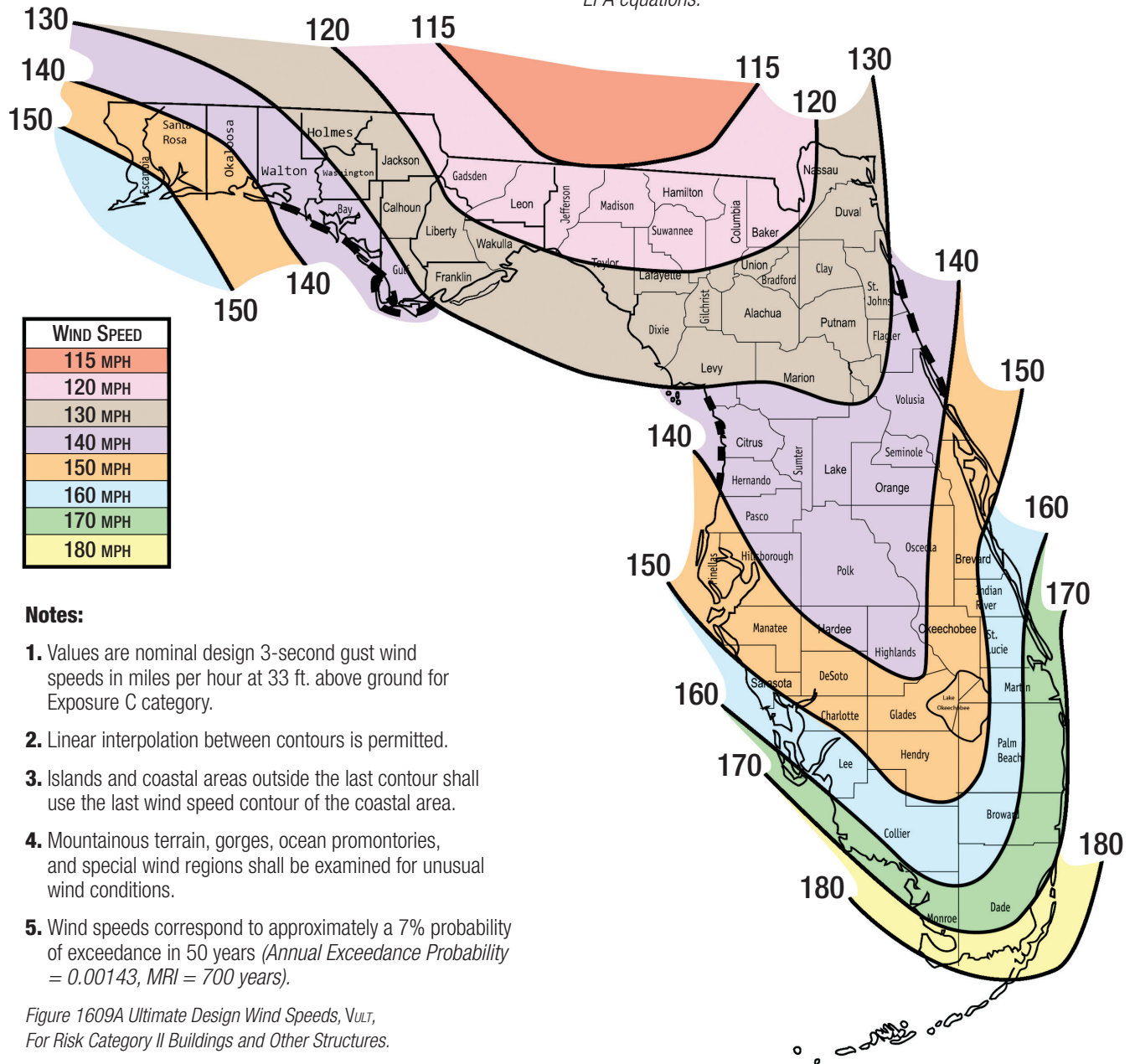
EPA Note:

EPA's based on symmetrically placed side mounted fixture(s) not exceeding 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 2017 FBC.

The EPA's in this publication are based on the 3-second gust wind map taken from the 2017 Florida Building Code (Figure 1609A Wind Map shown below). These EPA's cannot be used with older or newer maps.

This Wind Map is to be used in conjunction with ASCE 7-16 Wind Pressure and 2009 AASHTO 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.



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 7-16 Wind Load Design Assumptions:

- Risk Cat. II, MRI = 700 yrs., Exp. and Surface Roughness Cat. "C"
- $K_{zt} = 1.0$, $K_d = 1.0$, $G = 1.14$, $V_{ASD} = \sqrt{0.6} V_{ULT}$ (FBC 2017 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

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