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**Home of SteadyMax - The Most Rigid Pole in The World**



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**STEADYMAX**  
the most rigid poles in the world

**STRONG POLES**  
SECURITY MOUNTING SOLUTIONS

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## 150 MPH WIND - 3% MOVEMENT

The SteadyMax series of round, tapered camera poles are the most rigid poles we have ever manufactured. These poles are engineered to withstand 150 mph winds with a full load of cameras, cabinets and sensors - yet are limited to 3% of movement under those conditions.

These engineered camera poles also have a Factory-Installed Vibration Suppression System that consists of two different frequency dampeners that quell high and low frequency vibrations and oscillations that may occur during the life of the pole. The result is the steadiest, most rigid pole we have ever built, yet is very lightweight (our 16' pole weighs only 65 lbs.). This is an amazing Engineering feat to make a pole this steady, yet this lightweight.

- The 16' SteadyMax is a 6", non-tapered, heavy wall (.156 thick), aluminum round pole made out of 6063-T6 Aluminum.
- The 20' SteadyMax is a round tapered pole and is approximately 8" 0.0. at the bottom, and tapers down to 6" 0. D. at the top of the pole where the attachment plate is. This pole is heavy wall (.156 thick) construction, using 6063-T6 Aluminum.
- The 25' SteadyMax is tapered from approximately 8" 0.0. At the bottom, to 6" 0.0. at the top of the pole where the attachment plate is. This pole is an Ultra Heavy Wall (.250 thick -1 /4") aluminum tapered round pole using 6063-T6 Aluminum,
- The 30' SteadyMax is a round tapered pole constructed from 6063-T6 aluminum with ultra heavy wall thickness of 0.250" (1/4"). It tapers from approximately 8" diameter at the base to 6" diameter at the top, where the attachment plate is located.

All can be ordered in our White or Dark Bronze/ Black Powder Coat finishes. The standard Hand Hole is 18" from the base, and an extra Hand Hole it is 5' from the top of the pole.

### Steady Max Wind Load Calculations

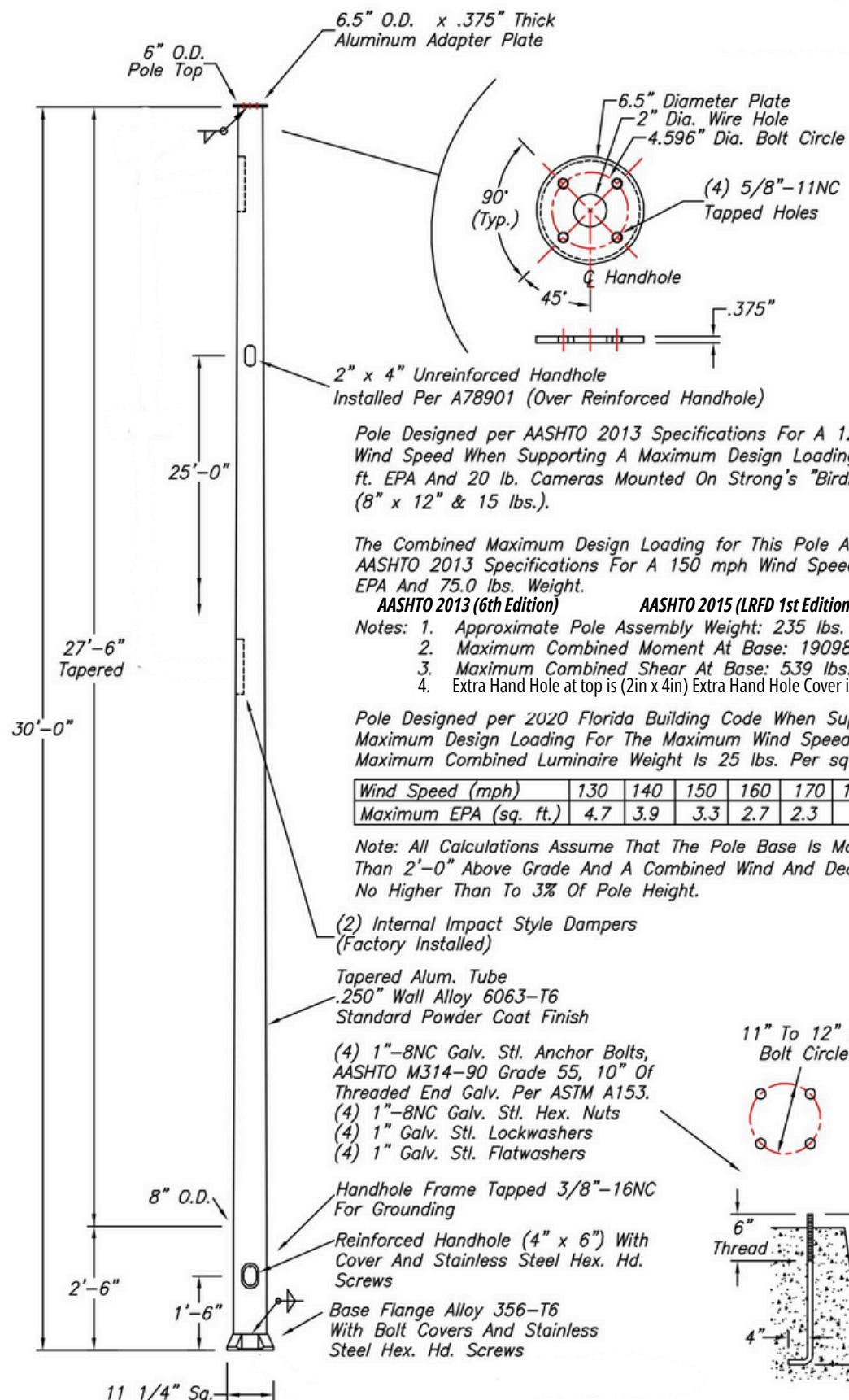
Model	Height	Butt Diameter	Wall Thickness	130 mph	140 mph	150 mph	160 mph	170 mph	180 mph	190 mph
SP-SM12FL	12 ft	6"	0.188"	18.1	15.4	13.3	11.1	10.1	8.9	8.1
SP-SM16	16 ft	6"	0.156"	7.4	5.8	5	4.3	3.7	3.2	2.8
SP-SM20	20 ft	8"	0.156"	10.9	8.7	7.4	6.4	5.5	4.9	4.2
SP-SM25	25 ft	8"	0.25"	10	7.7	6.5	5.6	4.8	4.2	3.6
SP-SM30	30 ft	8"	0.25"	4.7	3.9	3.3	2.7	2.3	1.9	1.5

THE TABLE ABOVE SHOWS THE EFFECTIVE PROJECTED AREA (EPA) WIND VELOCITY RATINGS FOR DIFFERENT STRONG POLES MODELS AT VARIOUS WIND SPEEDS. THE VALUES REPRESENT THE MAXIMUM WIND SPEED (IN MPH) THAT EACH MODEL CAN WITHSTAND, WHILE MAINTAINING OUR MAXIMUM AVAILABLE MOVEMENT CONSIDERING A GUST FACTOR OF 1.3. THIS GUST FACTOR ACCOUNTS FOR SUDDEN INCREASES IN WIND SPEED, ENSURING THE POLES CAN HANDLE SHORT BURSTS OF HIGHER WIND SPEEDS WITHOUT COMPROMISING STABILITY.

Maximum EPA Values (in sq ft) based on Florida Building Code 2020 ratings & AASHTO 2013 Specifications for a combined EPA Loading as indicated above with a maximum combined weight of 25lbs/sq ft of the EPA indicated.

Note: Pole base to be mounted no higher than 2' above grade and with a combined wind and dead load deflection limit of 3% of pole height.

# STEADYMAX<sup>30'</sup>



Pole Designed per AASHTO 2013 Specifications For A 120 mph Maximum Wind Speed When Supporting A Maximum Design Loading Of (3) .7 sq. ft. EPA And 20 lb. Cameras Mounted On Strong's "Birdhouse" Adapter (8" x 12" & 15 lbs.).

The Combined Maximum Design Loading for This Pole Assembly per AASHTO 2013 Specifications For A 150 mph Wind Speed Is 1.8 sq. ft. EPA And 75.0 lbs. Weight.

AASHTO 2013 (6th Edition)      AASHTO 2015 (LRFD 1st Edition)

Notes: 1. Approximate Pole Assembly Weight: 235 lbs.  
2. Maximum Combined Moment At Base: 19098 ft. lbs.  
3. Maximum Combined Shear At Base: 539 lbs.  
4. Extra Hand Hole at top is (2in x 4in) Extra Hand Hole Cover is (4in x 6in)

Pole Designed per 2020 Florida Building Code When Supporting A Maximum Design Loading For The Maximum Wind Speed As Shown. Maximum Combined Luminaire Weight Is 25 lbs. Per sq. ft. of EPA.

Wind Speed (mph)	130	140	150	160	170	180	190
Maximum EPA (sq. ft.)	4.7	3.9	3.3	2.7	2.3	1.9	1.5

Note: All Calculations Assume That The Pole Base Is Mounted No Higher Than 2'-0" Above Grade And A Combined Wind And Dead Load Deflection No Higher Than To 3% Of Pole Height.

(2) Internal Impact Style Dampers  
(Factory Installed)

Tapered Alum. Tube  
.250" Wall Alloy 6063-T6  
Standard Powder Coat Finish

(4) 1"-8NC Galv. Stl. Anchor Bolts, AASHTO M314-90 Grade 55, 10" Of Threaded End Galv. Per ASTM A153.  
(4) 1"-8NC Galv. Stl. Hex. Nuts  
(4) 1" Galv. Stl. Lockwashers  
(4) 1" Galv. Stl. Flatwashers

Handhole Frame Tapped 3/8"-16NC For Grounding

Reinforced Handhole (4" x 6") With Cover And Stainless Steel Hex. Hd. Screws

Base Flange Alloy 356-T6 With Bolt Covers And Stainless Steel Hex. Hd. Screws

SP-SM30XH

NO.	REVISIONS	DATE



TITLE 30' SteadyMax Series Pole

CUSTOMER Strong Poles

SCALE NTS DATE 09/05/2025

BY DWG. NO.

CHK'D

SP-SM30XH



# SteadyMax 20/25/30 Anchor Basket Assembly

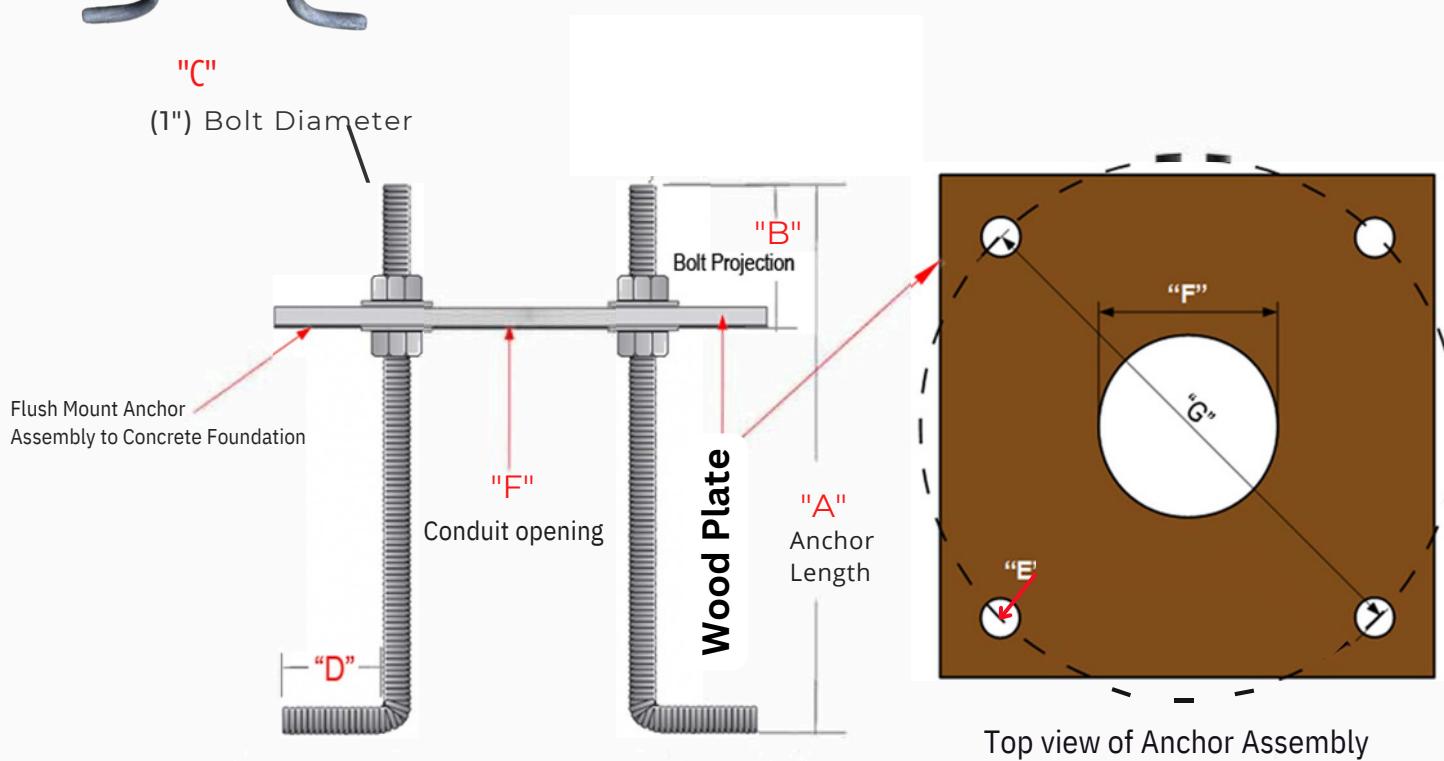


Strong Poles' pre-engineered Anchor Baskets makes installations much faster, and alignment much easier. Simply push the Anchor Basket down into the wet concrete until the template is flush with the top of the concrete, and be sure that the conduit rises well above the hole in the template. Then before the concrete is cured, Remove the template and make sure foundation is level and smooth to mount the pole.

Strong Poles pre-sets each lug to the perfect height for mounting (so the lugs do not sit up too high to get the base cover in place correctly.)

Each Anchor Basket has been preset to have a projection of the bolts above the concrete at the perfect height to allow the finish caps to fit onto the pole base.

**NOTE:** Please do not use a twin nut leveling system, (commonly found on light poles). Our Poles must be fastened directly to the concrete. Then before the concrete is cured, Remove the template and make sure foundation is level and smooth to mount the pole



Top view of Anchor Assembly

POLE SIZE	STRONGFORM	ANCHOR ASSEMBLY PART	"A" ANCHOR LENGTH	"B" BOLT PROJECTION	"C" BOLT DIAMETER	"D" ANCHOR LENGTH	"E" HOLE DIAMETER	CONDUIT SIZE	"G" BCD
SteadyMax SP-SM20	StrongForm-24-5	Included	36"	2-3/4"	1"-8	4-1/4"	1-1/16"	Max OD 5"	11.5"
SteadyMax SP-SM25	StrongForm-30-8	Included	36"	2-3/4"	1"-8	4-1/4"	1-1/16"	Max OD 5"	11.5"
SteadyMax SP-SM30	StrongForm-30-8	Included	36"	2-3/4"	1"-8	4-1/4"	1-1/16"	Max OD 5"	11.5"

## PART 1 GENERAL

### 1.01 SECTION INCLUDES

- A. Accessories.

### 1.02 RELATED REQUIREMENTS

- A. Section 033000 - Cast-in-Place Concrete: Materials and installation requirements for concrete bases for camera poles.
- B. Section 078400 - Firestopping.
- C. Section 260526 - Grounding and Bonding for Electrical Systems.
- D. Section 260529 - Hangers and Supports for Electrical Systems.
- E. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

### 1.03 REFERENCE STANDARDS

- A. AASHTO LTS - Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals 2013 (Revised 2019).
- B. IEEE C2 - National Electrical Safety Code 2017.
- C. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.
- D. NECA 303 - Standard for Installing and Maintaining Closed-Circuit Television (CCTV) Systems 2019.

### 1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
  - 1. Coordinate the placement of cameras with structural members, ductwork, piping, equipment, luminaires, diffusers, fire suppression system components, and other potential conflicts installed under other sections or by others.
  - 2. Coordinate the work with other installers to provide power for cameras and equipment at required locations.
  - 3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

### 1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.
  - 1. Camera Poles: Include information on maximum supported effective projected area (EPA) and weight for design wind speed.
- C. Camera Poles: Certify that products and associated supports comply with specified structural design criteria.

## PART 2 PRODUCTS

### 2.01 ACCESSORIES

- A. Camera Mounting Supports: Where not factory installed, provide mounting supports necessary for installation.
  - 1. Products:
    - a. StrongPoles, LLC; HD Parapet Camera Mount: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
    - b. StrongPoles, LLC; Parapet Mount: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
    - c. StrongPoles, LLC; Surface Mount Pole: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
- B. Camera Poles:
  - 1. Provide poles suitable for cameras, supports, and accessories to be installed.
  - 2. Structural Design Criteria:

- a. Comply with AASHTO LTS.
- b. Wind Load: Include effective projected area (EPA) of cameras, supports, and accessories to be installed.
  - 1) Design Wind Speed: [ ] mph ([ ] kph), with gust factor of 1.3.
- c. Dead Load: Include weight of proposed cameras, supports, and accessories.
- d. [ ].

3. Pole Configuration: As indicated on drawings.

4. Pole Configuration:

- a. Material: Use steel or aluminum.
- b. Shape: Use square or round, straight or tapered.
- c. Mounting Height: [ ], unless otherwise indicated.
- d. Mounting: Install on concrete foundation, height as indicated on the drawings, unless otherwise indicated.

5. Provide ground lug, accessible from handhole.

6. Provide the following:

- a. Top cap.
- b. Handhole.
- c. Anchor bolts with leveling nuts or leveling shims.
- d. Anchor base cover.
- e. Pole-top tenon, size as required for installed camera/bracket.

7. Products:

- a. StrongPoles, LLC; SteadyMax Camera Poles: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
- b. StrongPoles, LLC; 4 Inch Square Camera Poles: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).
- c. StrongPoles, LLC; 5 Inch Square Direct-Burial Camera Poles: [www.strongpoles.com/#sle](http://www.strongpoles.com/#sle).

C. Provide components as indicated or as required for connection of video surveillance system to devices and other systems indicated.

D. Provide cables as indicated or as required for connections between system components.

E. Provide accessory racks/cabinets as indicated or as required for equipment mounting.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that ratings and configurations of system components are consistent with the indicated requirements.
- C. Verify that mounting surfaces are ready to receive system components.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system where applicable.
- E. Verify that conditions are satisfactory for installation prior to starting work.

### 3.02 INSTALLATION

- A. Install video surveillance system in accordance with NECA 1 (general workmanship) and NECA 303.
- B. Install products in accordance with manufacturer's instructions.
- C. Provide required support and attachment in accordance with Section 260529.
- D. Pole-Mounted Cameras:
  1. Maintain the following minimum clearances:
    - a. Comply with IEEE C2.
    - b. Comply with utility company requirements.
  2. Foundation-Mounted Poles:
    - a. Provide cast-in-place concrete foundations for poles as indicated; see Section 033000.

- 1) Install anchor bolts plumb using template furnished by pole manufacturer.
- 2) Position conduits to enter pole shaft.

b. Install foundations plumb.

c. Install poles plumb, using shims as required to adjust to plumb.

d. Tighten anchor bolt nuts to manufacturer's recommended torque.

e. Install anchor base covers or anchor bolt covers as indicated.

3. Embedded Poles: Install poles plumb.

E. Provide grounding and bonding in accordance with Section 260526.

F. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.

G. Identify system wiring and components in accordance with Section 260553.

END OF SECTION

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