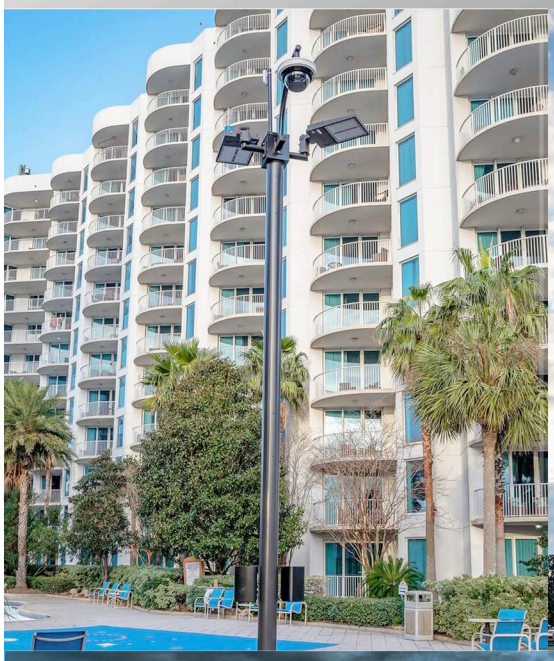
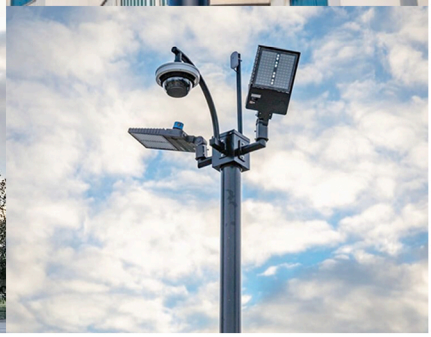
STRONGPOLES
SECURITY MOUNTING SOLUTIONS

Don't Settle for less.
Choose the best.

Home of SteadyMax - The Most Rigid Pole in The World





Don't Settle for a repurposed light pole.
Choose the engineered solution.

StrongPoles.com / 844-669-3537

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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 lite 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 a Ultra Heavy Wall (.250 thick -1 /4") aluminum tapered round pole using 6063-T6 Aluminum,

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

Steady Max Wind Load Calculations

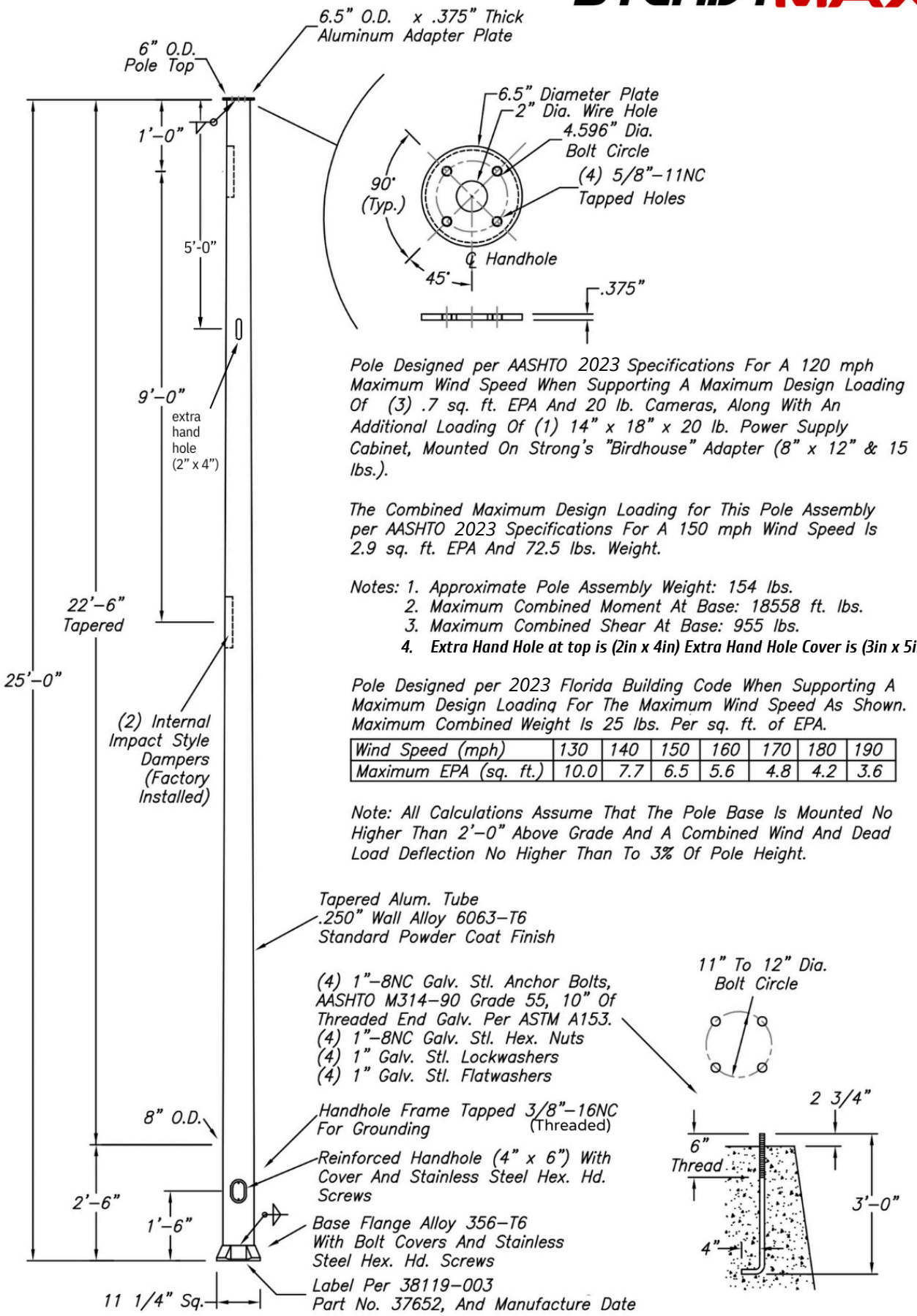
STRONGPOLES SECURITY MOUNTING SOLUTIONS	EPA Wind Velocity (mph)			STEADYMAX the most rigid poles in the world
Model	**90 mph**	**100 mph**	**120 mph**	**150 mph**
SP-SM12FL	17.4	13.5	8.89	5.76
SP-SM16	14.5	11	6.8	3.5
SP-SM20	14.2	10.5	5.7	2.8
SP-SM25	12.6	9.1	4.3	1.5

THE TABLE ABOVE SHOWS THE EFFECTIVE PROJECTED AREA (EPA) WIND VELOCITY RATINGS FOR DIFFERENT STRONGPOLES 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 2017 ratings & AASHTO 2015 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.

The 25′ SteadyMax Camera Pole is a round tapered pole, and is approximately 8” O.D. at the bottom, and tapers up to 6” O.D.

STEADYMAX25’



Pole Designed per AASHTO 2023 Specifications For A 120 mph Maximum Wind Speed When Supporting A Maximum Design Loading Of (3) .7 sq. ft. EPA And 20 lb. Cameras, Along With An Additional Loading Of (1) 14” x 18” x 20 lb. Power Supply Cabinet, Mounted On Strong’s ”Birdhouse” Adapter (8” x 12” & 15 lbs.).

The Combined Maximum Design Loading for This Pole Assembly per AASHTO 2023 Specifications For A 150 mph Wind Speed Is 2.9 sq. ft. EPA And 72.5 lbs. Weight.

Notes: 1. Approximate Pole Assembly Weight: 154 lbs.
2. Maximum Combined Moment At Base: 18558 ft. lbs.
3. Maximum Combined Shear At Base: 955 lbs.
4. Extra Hand Hole at top is (2in x 4in) Extra Hand Hole Cover is (3in x 5in)

Pole Designed per 2023 Florida Building Code When Supporting A Maximum Design Loading For The Maximum Wind Speed As Shown. Maximum Combined Weight Is 25 lbs. Per sq. ft. of EPA.

Wind Speed (mph)	130	140	150	160	170	180	190
Maximum EPA (sq. ft.)	10.0	7.7	6.5	5.6	4.8	4.2	3.6

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.

STRONGPOLES

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

STRONGPOLES SECURITY MOUNTING SOLUTIONS — EPA Wind Velocity (mph) — STEADYMAX the most rigid poles in the world

Model	90 mph	100 mph	120 mph	150 mph
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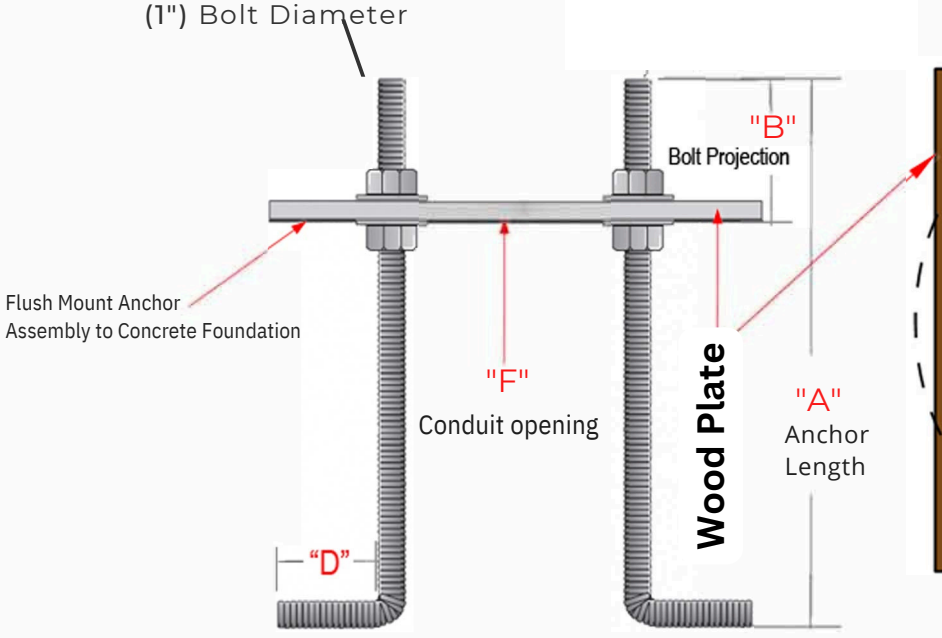
SteadyMax 20/25 Anchor Basket Assembly

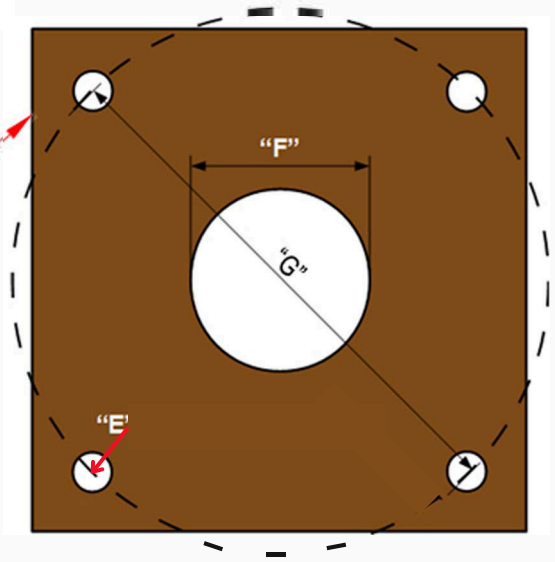
Strong Poles' pre-engineered Anchor Baskets makes installations much faster, and alignment much easier. Simply push the Anchor Basket down into the wet concrete until the template is flush with the top of the concrete, and be sure that the conduit rises well above the hole in the template. Then before 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	"F" 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 4"	11.5"
SteadyMax SP•SM25	StrongForm-30-6	Included	36"	2-3/4"	1"-8	4 -1/4"	1-1/16"	Max OD 4"	11.5"

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