

Date: _____ Catalog: No: _____

Prepared By: _____ Project: _____



ALUMINUM SQUARE STRAIGHT POLES

Unite is proud to offer a wide range of electro-welded ASTM-A500 Grade C steel poles. All of Unite's poles designed and manufactured in the USA and available to ship in as little as 5 days from our convenient location in the midwest.



ORDERING INFORMATION

Example: UPSSA-20 -40-40-D-AB-SB-FP-MB-D1

Pole Series	Height	Base OD	TOP OD	Thickness	Anchor Bolts	Base	Finish	Finish	Mounting
UP-SSA	8'	40 = 4"	40 = 4"	C = 0.125"	AB = Incl.	SB Standard Base	AN Anodized	DB Dark Bronze	Drill Mounting (Incl Cap) D1 Single D2 2 @180 Deg D4 4 @ 90 Deg D5 2 @ 90 Deg D6 3 @ 90 Deg Tenon Mounting P1 4" OD x 5" Long Tenon P2 2.38" OD x 4" Long Tenon P3 3.5" OD x 6" Long Tenon P4 4" OD x 6" Long Tenon P5 2.88" OD x 4" Long Tenon P6 2.88" OD x 5" Long Tenon P7 2.38" OD x 5" Long Tenon PQ 2.38" OD x 12" Long Tenon PD 3" OD x 3" Long Tenon P9 Custom Size Tenon Other Options PC Cap Only No Drilling PL Open Top No Drilling+
	10'	50 = 5"	50 = 5"	D = 0.188"	LAB = Not Incl.	CB Custom Base	FP Finish Painted	MB Medium Bronze	
	12'	60 = 6"	60 = 6"	E = 0.250"				LG Light Gray	
	13'							DG Dark Green	
	14'							SG Slate Gray	
	15'							BK Black	
	16'							WH White	
	17'							SC Custom	
	17' 6"							NA Natural Alum Paint	
	18'							SA Satin Silver Anod.	
	20'							BA Black Anodized	
	22'								
	22' 6"								
	23'								
	24'								
	25'								
	26'								
	27'								
	28'								
	30'								

Optional Accessory Information

Please contact Unite LtG for specific part numbers for accessories as options vary greatly dependant upon choices made above. Unite will be pleased to provide detail on all accessories ordered.

Description

SPL - Special Cut Length (please specify)
VDA - Internal Vibration Dampener, Factory Installed
VDF - Internal Vibration Dampener, Field Installable
PXDX - Side Spill + Tenon w/Additional Hand Hole
BCSPCL - Special Base Plate to Match Existing Bolt Circle
(Will require Special Base Cover)

HHU - Additional Unreinforced Hand Hole w/Cover Assembly
HHR - Additional Reinforced Hand Hole w/ Cover Assembly
FSTS - Festoon Provision, Electrical By Others
CPL - NPT Pipe Coupling

Description

STAMP - Engineering Services, Signed and Sealed Calcs
STAMPCA - Engineering Services, CA Signed and Sealed Calcs

PRE063 - Pre-Ship Anchor Bolts 0.625" x 1.6" x 2"
PRE075 - Pre-Ship Anchor Bolts 0.75" x 1.7" x 2"
PRE100 - Pre-Ship Anchor Bolts 1" x 3.6" x 4"

FEATURES & SPECIFICATIONS

Pole Shaft

- The pole shaft is extruded from seamless 6063 T6 aluminum

Pole Top

- A removable top cap is provided for poles receiving drilling patterns for the side-mounted luminaire arm assemblies. Other pole top options include Tenon Top, Top Cap Only or Open Top which is typical when the pole top diameter matches the necessary slip fit dimensions.

Hand Hole

- 2" x 4" oval hand hole and grounding provision are provided (dimensions are nominal). Cover and cover attachment hardware are also included.

Anchor Base and Cover

- The anchor base is cast from 356 alloy aluminum and supplied with an aluminum two piece base cover.
- The completed pole assembly is heat treated to a T6 temper.
- Optional decorative base covers available as special order.

Anchor Bolts

- Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers.
- Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

Hardware

- All structural fasteners are galvanized high strength carbon steel.
- All non structural fasteners are galvanized or zinc plated carbon steel or stainless steel.

Design Criteria

- Standard EPA and weight values are based on Standard Commercial and AASHTO Criteria (with 3 second gust factor) for side and top mounted fixtures only.
- Satisfactory performance of light poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.

Pole Vibration Damper

- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

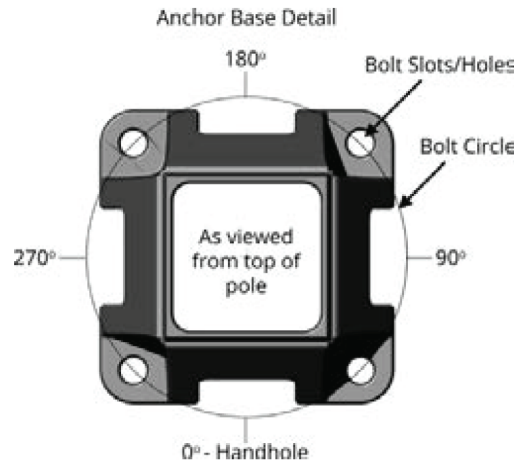
Finishes

- Finishes include anodized or painted.
- When storing poles outside remove all wrapping immediately to prevent damage.
- Please consult factory for special finishing colors and fixture matching options.

Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart
- Select pole height
- Select MPH to match wind speed in the application area (See wind-speed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets

BOLT CIRCLE



DESIGN AND DIMENSIONAL INFORMATION

BASE MODEL	POLE DIMENSIONS					BASE PLATE		ANCHOR BOLTS	
	NOMINAL MOUNTING HEIGHT	TOP SQ (IN)	BASE SQ (IN)	WALL THK (IN)	STRUCTURE WEIGHT (LBS)	BOLT CIRCLE DIA (IN)	SQ (IN) x THK (IN)	DIA x LENGTH x HOOK (IN)	PROJECTION (IN)
NP-SSAA-08-4040-C	8'-0"	4	4	0.125	39	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-10-4040-C	10'-0"	4	4	0.125	43	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-12-4040-C	12'-0"	4	4	0.125	48	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-14-4040-C	14'-0"	4	4	0.125	52	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-15-4040-C	15'-0"	4	4	0.125	54	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-15-4040-D	15'-0"	4	4	0.188	71	9.25	8.625 x 8.625 x 0.75	0.75 x 17.00 x 2.00	2.75
NP-SSAA-15-5050-D	15'-0"	5	5	0.188	84	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-16-4040-C	16'-0"	4	4	0.125	57	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-16-4040-D	16'-0"	4	4	0.188	74	9.25	8.625 x 8.625 x 0.75	0.75 x 17.00 x 2.00	2.75
NP-SSAA-16-5050-D	16'-0"	5	5	0.188	88	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-18-4040-C	18'-0"	4	4	0.125	61	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-18-4040-D	18'-0"	4	4	0.188	81	9.25	8.625 x 8.625 x 0.75	0.75 x 17.00 x 2.00	2.75
NP-SSAA-18-4040-E	18'-0"	4	4	0.250	100	9.25	8.625 x 8.625 x 0.75	0.75 x 17.00 x 2.00	2.75
NP-SSAA-18-5050-D	18'-0"	5	5	0.188	97	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-20-4040-C	20'-0"	4	4	0.125	65	9.25	8.625 x 8.625 x 0.75	0.625 x 16.00 x 2.00	2.75
NP-SSAA-20-4040-D	20'-0"	4	4	0.188	88	9.25	8.625 x 8.625 x 0.75	0.75 x 17.00 x 2.00	2.75
NP-SSAA-20-4040-E	20'-0"	4	4	0.250	109	9.25	8.625 x 8.625 x 0.75	0.75 x 17.00 x 2.00	2.75
NP-SSAA-20-5050-D	20'-0"	5	5	0.188	105	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-20-5050-E	20'-0"	5	5	0.250	133	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-20-6060-E	20'-0"	6	6	0.250	157	12.00 - 14.750	12.625 x 12.625 x 0.875	1.00 x 36.00 x 4.00	3.5
NP-SSAA-22-5050-D	22'-0"	5	5	0.188	114	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-22-5050-E	22'-0"	5	5	0.250	144	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-22-6060-E	22'-0"	6	6	0.250	170	12.00 - 14.750	12.625 x 12.625 x 0.875	1.00 x 36.00 x 4.00	3.5
NP-SSAA-24-5050-D	24'-0"	5	5	0.188	122	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-24-5050-E	24'-0"	5	5	0.250	155	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-24-6060-E	24'-0"	6	6	0.250	183	12.00 - 14.750	12.625 x 12.625 x 0.875	1.00 x 36.00 x 4.00	3.5
NP-SSAA-25-5050-D	25'-0"	5	5	0.188	126	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-25-5050-E	25'-0"	5	5	0.250	160	11.00 - 12.750	11.625 x 11.625 x 1	1.00 x 36.00 x 4.00	3.5
NP-SSAA-25-6060-E	25'-0"	6	6	0.250	190	12.00 - 14.750	12.625 x 12.625 x 0.875	1.00 x 36.00 x 4.00	3.5
NP-SSAA-26-6060-E +	26'-0"	6	6	0.250	197	12.00 - 14.750	12.625 x 12.625 x 0.875	1.00 x 36.00 x 4.00	3.5
NP-SSAA-28-6060-E +	28'-0"	6	6	0.250	210	12.00 - 14.750	12.625 x 12.625 x 0.875	1.00 x 36.00 x 4.00	3.5
NP-SSAA-30-6060-E +	30'-0"	6	6	0.250	221	12.00 - 14.750	12.625 x 12.625 x 0.875	1.00 x 36.00 x 4.00	3.5

EPA LOAD INFORMATION

BASE MODEL	80 MPH w/3sec Gust		90 MPH w/3sec Gust		100 MPH w/3sec Gust		110 MPH w/3sec Gust		120 MPH w/3sec Gust	
	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)
NP-SSAA-08-4040-C	17.5	100	13.8	100	10.8	100	9.5	100	7.7	100
NP-SSAA-10-4040-C	13.5	100	10.2	100	7.9	100	6.9	100	5.4	100
NP-SSAA-12-4040-C	10.5	100	7.8	100	5.8	100	5	100	3.8	100
NP-SSAA-14-4040-C	8.2	100	5.9	100	4.2	100	3.5	100	2.4	100
NP-SSAA-15-4040-C	7.2	100	5.1	100	3.5	100	2.8	100	1.9	100
NP-SSAA-15-4040-D	12.2	100	9	100	6.7	100	5.7	100	4.3	100
NP-SSAA-15-5050-D	21.2	125	15.5	125	12	125	10.3	125	7.9	125
NP-SSAA-16-4040-C	6.3	100	4.3	100	2.8	100	2.2	100	1.3	100
NP-SSAA-16-4040-D	11	100	8	100	5.8	100	4.9	100	3.6	100
NP-SSAA-16-5050-D	19.3	125	14.2	125	10.6	125	9.1	125	6.9	125
NP-SSAA-18-4040-C	4.6	100	2.9	100	1.6	100	1	100	N/A	N/A
NP-SSAA-18-4040-D	8.6	100	6	100	4.2	100	3.4	100	2.2	100
NP-SSAA-18-4040-E	12.3	100	8.9	100	6.5	100	5.5	100	2.9	75
NP-SSAA-18-5050-D	15.6	125	11.2	125	8.1	125	6.7	125	4.8	125
NP-SSAA-20-4040-C	3.1	100	1.6	100	0.5	100	N/A	N/A	N/A	N/A
NP-SSAA-20-4040-D	6.7	100	4.4	100	2.7	100	2	100	1	100
NP-SSAA-20-4040-E	9.9	100	6.9	100	4.8	100	3.9	100	2.6	100
NP-SSAA-20-5050-D	12.4	125	8.6	125	5.8	125	4.6	125	3	125
NP-SSAA-20-5050-E	17.9	125	12.9	125	9.4	125	7.8	125	5.6	125
NP-SSAA-20-6060-E	27.5	150	20	150	15	150	12.7	150	9.5	150
NP-SSAA-22-5050-D	9.7	125	6.3	125	3.9	125	2.9	125	1.4	125
NP-SSAA-22-5050-E	14.6	125	10.2	125	7	125	5.7	125	3.7	125
NP-SSAA-22-6060-E	23	150	16.5	150	11.8	150	9.7	150	6.9	150
NP-SSAA-24-5050-D	7.5	125	4.4	125	2.2	125	1.3	125	N/A	N/A
NP-SSAA-24-5050-E	11.8	125	7.9	125	5	125	3.8	125	2.1	125
NP-SSAA-24-6060-E	19.2	150	13.2	150	9	150	7.2	150	4.6	150
NP-SSAA-25-5050-D	6.4	125	3.5	125	1.5	125	0.6	125	N/A	N/A
NP-SSAA-25-5050-E	10.6	125	6.8	125	4.1	125	3	125	1.3	125
NP-SSAA-25-6060-E	17.4	150	11.8	150	7.8	150	6	150	3.6	150
NP-SSAA-26-6060-E +	15.8	150	10.4	150	6.6	150	4.9	150	2.6	150
NP-SSAA-28-6060-E +	12.9	150	7.9	150	4.4	150	2.9	150	0.8	150
NP-SSAA-30-6060-E +	10.9	150	6.3	150	3	150	1.5	150	N/A	N/A