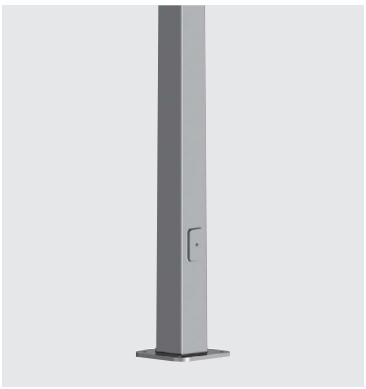
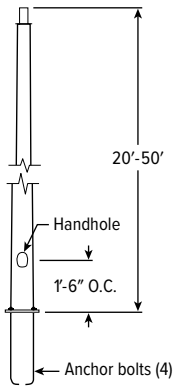
STS Steel Square Tapered Pole





CATALOG #:

Type:

PROJECT:

FEATURES

- One-piece steel construction provides durability
- An assortment of finishes are available to complement the architectural elements of any outdoor space
- Available in heights up to 50′

SPECIFICATIONS

- SHAFT – One-piece assembly conforming to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.11 in/ft
- POLE TOP – Pole top plate and tenon provided for top mount luminaire.
- HANDHOLE – Reinforced and covered handhole with hardware and grounding provision provided. Poles with a 6″ base or smaller are supplied with a 3″ x 5″ nominal rectangular handhole. All other pole assemblies are provided with a 4″ x 6.5″ nominal ovalized handhole.
- BASE COVER – Two-piece standard full base cover fabricated from ABS plastic.
- FINISH – Polyester powder coat bonded to pretreated metal, meets AAMA 2604 specifications for outdoor durability.
- HARDWARE – All structural fasteners are galvanized high-strength carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel. Anchor bolts conform to ASTM F1554 Grade 55, galvanized a minimum of 12″ on the threaded end.
- MOUNTING – Anchor base (base plate) conforms to ASTM A36.

ORDERING EXAMPLE: STS - 200 - 0525 - 11 - TM238 - DBR - AB - OPTIONS

ORDERING INFO

SERIES

STS

HEIGHT

Specify according to chart. See page 3 for LOAD AND DIMENSIONAL DATA.

200	20′-0″
250	25′-0″
300	30′-0″
350	35′-0″
390	39′-0″
450	45′-0″ [3]
500	50′-0″ [4]

SHAFT BASE DIMENSION

20′ POLE	
0525	5.25″
0550	5.50″
25′ POLE	
0600	6.00″
0641	6.41″
30′ POLE	
0641	6.41″
0713	7.13″
35′ POLE	
0681	6.81″
0713	7.13″
0788	7.88″
39′ POLE	
0713	7.13″
0718	7.18″
0875	8.75″
45′ POLE	
0788	7.88″
0875	8.75″
50′ POLE	
0881	8.81″

WALL THICKNESS

7	7-gauge [5]
11	11-gauge [6]

FIXTURE MOUNTING [1]

POLE TOP MOUNT

TM238	2-3/8″ x 4″ Round tenon
TM278	2-7/8″ x 4″ Round tenon
TM3	3″ x 4″ Round tenon
TC___	Custom Round Tenon [2]

FINISH [7]

BLK	Black [8]
DBR	Medium bronze
DBZ	Dark bronze
GRAY	Standard gray
GRN	Green [9]
SLV	Satin aluminum [10]
WHT	White [11]
RAL#____	Specify custom color

ANCHOR BOLTS

AB	Anchor bolts [12]
LAB	Less anchor bolts
PAB	Pre-shipped Anchor Bolts [13]

OPTIONS

FS	Festoon box only [14]
FBCS	Full base cover, steel [15]
NC	Nut covers

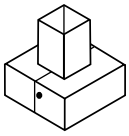
NOTES

1. Designed for pole top tenon mount. See page 2 for MOUNTING DETAILS.
2. Must specify tenon diameter and height, consult factory.
3. 7 gauge wall thickness only.
4. 7 gauge wall thickness only.
5. 0.1793″.
6. 0.1196″.
7. See page 2 for FINISH OPTIONS.
8. RAL #9004.
9. RAL #6005.
10. RAL #9006.
11. RAL #9003.
12. Four L-bolts provided with two hex nuts and two flat washers each, shipped with pole.
13. Four L-bolts provided with two hex nuts and two flat washers each.
14. Casting only. Outlet, cover and hardware by others.
15. H.E. Williams, Inc. reserves the right to provide an optional two-piece steel full base cover on some applications depending upon the finish requirement and/or pole base diameter.

STS Steel Square Tapered Pole

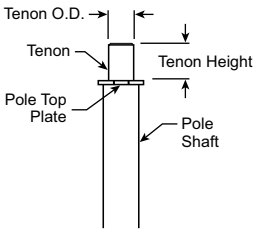
FIXTURE DETAILS

FULL BASE COVER



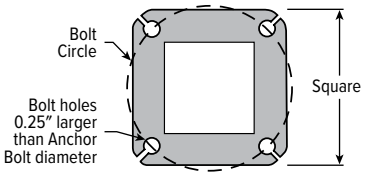
MOUNTING DETAILS

POLE TOP MOUNT TYPICAL TENON



ANCHORAGE DATA

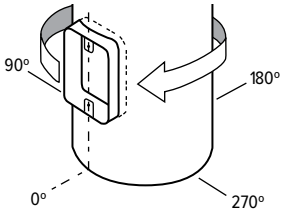
ANCHOR BASE



POLE		ANCHOR BASE				ANCHOR BOLTS		
BASE SQ.	WALL THK. (GA)	BOLT CIRCLE DIA.	±	SQ.	THK.	DIA. X LENGTH X HOOK	PROJECTION	±
5-1/4"	11	10-3/4"	N/A	10-3/4"	3/4"	1" x 36" x 4"	4"	1/4"
5-1/2"	7	11"	N/A	11"	1"	1" x 36" x 4"	4-1/4"	1/4"
6"	11	12"	N/A	11-1/2"	7/8"	1" x 36" x 4"	4-1/8"	1/4"
6-7/16"	11	12-1/2"	N/A	11-7/8"	7/8"	1" x 36" x 4"	4-1/8"	1/4"
6-7/16"	7	12-1/2"	N/A	11-7/8"	1-1/4"	1" x 36" x 4"	4-1/2"	1/4"
6-13/16"	11	13"	N/A	12-1/4"	7/8"	1" x 36" x 4"	4-1/8"	1/4"
7-1/8"	7	13-1/2"	N/A	12-5/8"	1-1/4"	1" x 36" x 4"	4-1/2"	1/4"
7-3/16"	11	13-1/2"	N/A	12-5/8"	7/8"	1" x 36" x 4"	4-1/8"	1/4"
7-7/8"	7	14-1/2"	N/A	13-3/8"	1-1/4"	1" x 36" x 4"	4-1/2"	1/4"
8-3/4"	7	15-3/4"	N/A	14-1/4"	1-1/2"	1-1/4" x 42" x 6"	5-1/4"	1/4"
8-13/16"	7	16"	N/A	15-1/2"	1-1/4"	1-1/4" x 42" x 6"	5"	1/4"

OPTION DETAILS

STEEL FESTOON BOX



NOTE: The festoon box is located above the access door at 0.

FINISH OPTIONS

WHITE | BLACK | GREEN | MEDIUM BRONZE | DARK BRONZE | SATIN ALUMINUM GRAY

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

STS Steel Square Tapered Pole

LOAD AND DIMENSIONAL DATA

NOM. MTG. HEIGHT (FT)	CATALOG NUMBER	POLE DIMENSIONS				80 MPH [1]		90 MPH [1]		100 MPH [1]	
		BASE SQ. (IN)	TOP SQ. (IN)	WALL THK. (GA)	STRUC. WT (LBS) [2]	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)	MAX EPA (SQ FT)	MAX WEIGHT (LBS)
20	STS-200-0525-11 [3]	5.25	3.05	11	155	18.0	452	13.8	345	10.7	268
	STS-200-0550-7 [3]	5.50	3.30	7	235	30.5	764	24.0	602	19.0	477
25	STS-250-0600-11 [3]	6.00	3.25	11	205	16.8	422	12.6	315	9.5	238
	STS-250-0641-7	6.41	3.66	7	310	28.5	713	22.5	563	18.2	455
30	STS-300-0641-11	6.41	3.11	11	260	13.6	340	9.8	245	7.0	175
	STS-300-0641-7	6.41	3.11	7	375	23.6	590	17.9	448	13.7	343
	STS-300-0713-7	7.13	3.83	7	431	27.4	687	21.6	542	17.3	434
35	STS-350-0681-11	6.81	2.96	11	305	10.7	269	7.3	184	4.8	120
	STS-350-0713-7	7.13	3.28	7	475	23.4	585	17.4	435	13.0	325
	STS-350-0788-7	7.88	4.03	7	540	25.7	643	18.8	470	13.8	345
39	STS-390-0718-11	7.18	2.92	11	345	8.6	215	5.4	135	3.0	75
	STS-390-0713-7	7.13	2.87	7	500	19.3	483	14.2	355	10.4	260
	STS-390-0875-7	8.75	4.49	7	670	26.1	654	20.6	517	16.2	405
45	STS-450-0788-7	7.88	2.93	7	620	16.0	400	11.1	278	7.4	187
	STS-450-0875-7	8.75	3.80	7	730	23.5	588	16.6	415	11.4	287
50	STS-500-0881-7	8.81	3.31	7	780	19.4	485	13.2	332	8.7	218

[1] Maximum weight and Effective Projected Area (EPA) values are based on top mounted luminaires and/or brackets having a centroid 2'-6" above the nominal mounting height. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design. See page 4 for WIND MAP.

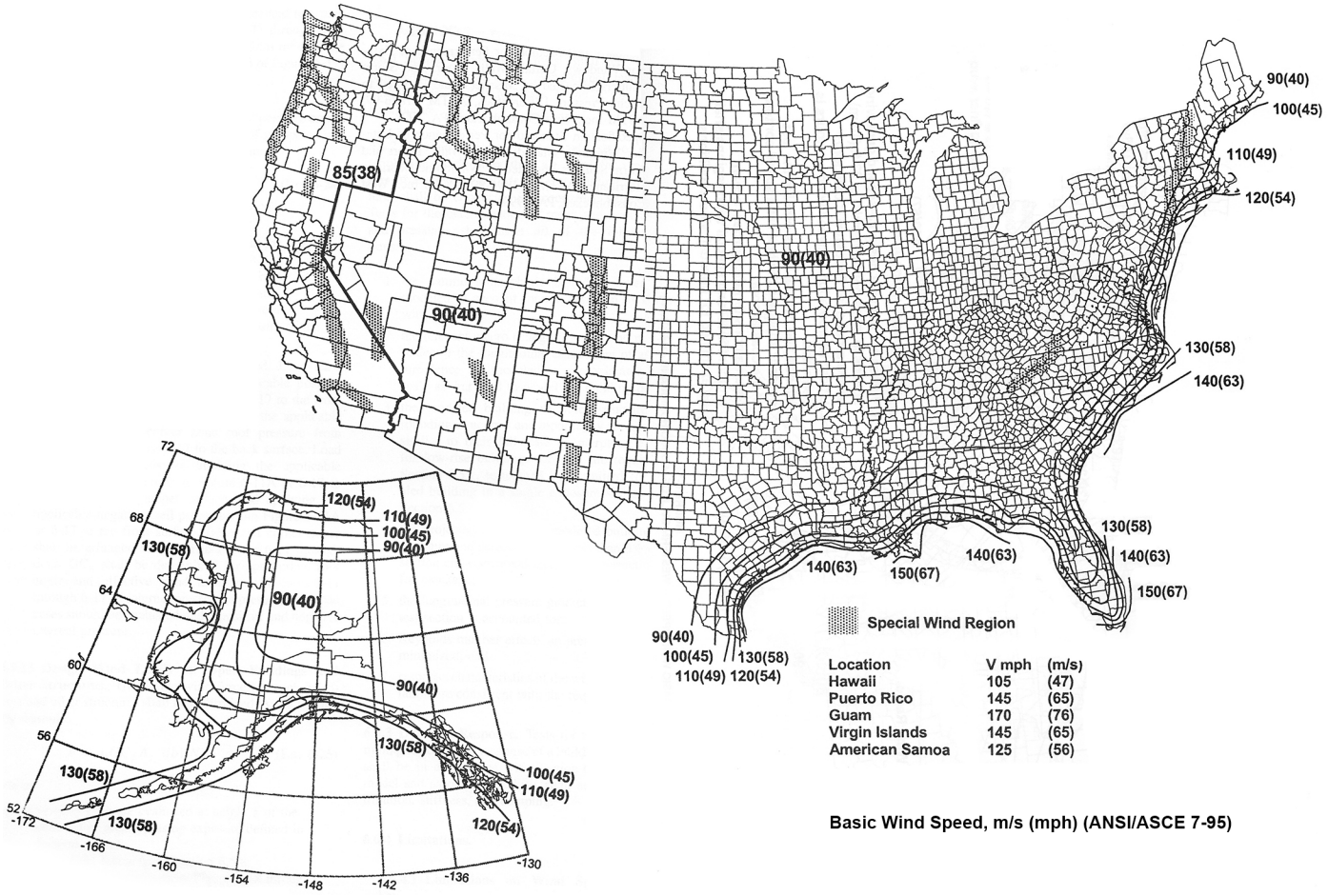
[2] Structure weight is a nominal value which includes the pole shaft and base plate only.

[3] 3" x 5" nominal handhole - all others 4" x 6.5" nominal.

- Pole installations in various parts of the country perform satisfactorily; however, in select locations destructive vibration can occur. H.E. Williams, Inc. is not responsible for vibration induced fatigue damage.
- H.E. Williams, Inc. warrants this product to be free from defects in materials and workmanship. Any defective part returned within one year from the date of delivery of the goods will be repaired or replaced without charge, F.O.B. factory.
- This warranty specifically excludes fatigue or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.
- The above warranties are given in lieu of all other warranties express or implied, including without limitation, the warranty of merchantability and the warranty of suitability for a particular purpose. It is expressly stated that H.E. Williams, Inc. assumes no liability for consequential or liquidated damages arising out of a breach of the sale, including any warranties arising therefrom, and buyer's remedy shall be limited to repair or replacement of defective parts as described above.
- Any action for the breach under a sale including any warranties arising therefrom must be commenced within one year after the cause of action accrues.

STS Steel Square Tapered Pole

WIND MAP



Basic Wind Speed, m/s (mph) (ANSI/ASCE 7-95)

The Effective Projected Area (EPA) standards shown in the Load and Dimensional Data Tables on the specification sheets are designed to withstand dead loads and theoretical dynamic loads developed by variable wind speeds, as charted, with an appropriate wind gust factor under the following conditions:

- Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33 ft (10 m) above ground for Exposure C category.
- Linear Interpolation between wind contours is permitted.
- Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
- Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
- This map is intended as a general guide. Check you local area for unique wind conditions.