

SQUARE TAPERED STEEL POLE

STS

SUBMITTAL:

JOB:

TYPE:



EXAMPLE:

VM - STS - 200 - 0525 - 11 - T238 - DBR - AB - OPTIONS

PREFIX SERIES HEIGHT SHAFT BASE DIMENSION WALL THICKNESS FIXTURE MOUNTING FINISH OPTIONS ANCHOR BOLTS OPTIONS

SERIES

STS — The STS Series square tapered steel pole is designed for 2-3/8" tenon mount and features one-piece construction in heights up to 50'.

HEIGHT* (Must specify)

200	20'-0"
250	25'-0"
300	30'-0"
350	35'-0"
450¹	45'-0" ¹
500¹	50'-0" ¹

¹ 7 gauge only.

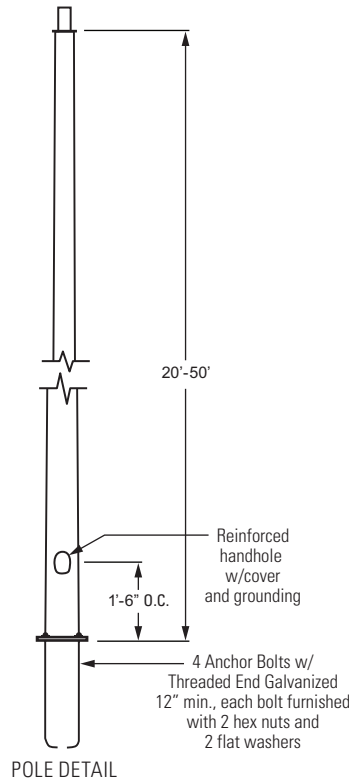
SHAFT BASE DIMENSION* (Must specify)

20' POLE		25' POLE	
0525²	5.25"	0600²	6.00"
0550²	5.50"	0641	6.41"
30' POLE		35' POLE	
0641	6.41"	0681	6.81"
0713	7.13"	0788	7.88"
45' POLE		50' POLE	
0788	7.88"	0881	8.81"
0875	8.75"		

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

WALL THICKNESS* (Must specify)

7	7 gauge (0.1793")
11	11 gauge (0.1196")



POLE DETAIL

STS SERIES

SHAFT — The pole shaft conforms to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.11 in/ft.

POLE TOP — A pole top plate and tenon (must specify size) are provided for top mount luminaire or Williams' pole top assembly.

HANDHOLE — A covered handhole and grounding provision with hardware is provided.

FULL BASE COVER — The two-piece standard full-base cover is fabricated from ABS plastic.

ANCHOR BASE — The anchor base (base plate) conforms to ASTM A36.

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

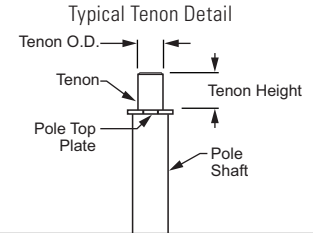
* For available Base Diameter, Wall Thickness and Height combinations, see Load and Dimensional Data Table on page 7C.

FIXTURE MOUNTING

Designed for pole top tenon. See Williams' Pole Top Assemblies for various fixture mounting tenon and arm assemblies.

FIXTURE MOUNTING (Must specify)

T238	2-3/8" O.D. x 4" round tenon (use with Williams' Pole Top Tenon Mounts)
T278	2-7/8" O.D. x 4" round tenon
T33	3" O.D. x 3" round tenon (use with Williams' Historic Pole Top Assemblies)
T312	3-1/2" O.D. x 12" round tenon (use with Williams' AVPT Decorative Pole Top Assemblies)
TC ____	Custom round tenon (must specify tenon diameter (O.D.) and height, consult factory)



FINISH OPTIONS

Polyester powder coat applied over chromate pre-treatment.

FINISH OPTIONS (Must specify)

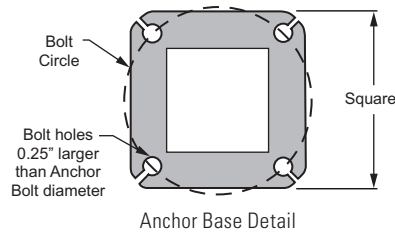
BLK	Black (RAL#9004)	DBR	Dark bronze (Protech #PC21462)
GRAY	Standard gray (Protech #PC18367)	GRN	Green (RAL#6005)
SLV	Satin aluminum (RAL#9006)	WHT	White (RAL#9003)
RAL# ____	Specify custom color		

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. Template provided with every pole and anchor bolt order.

ANCHOR BOLTS (Must specify)

AB	Anchor bolts (4 each, shipped with pole)
LAB	Less anchor bolts
PAB	Pre-shipped anchor bolts (4 each)

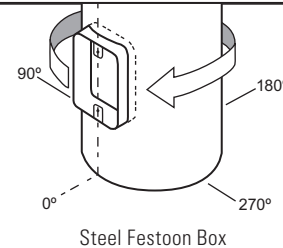


POLE BASE SQ. (IN)	WALL THK (GA)	ANCHOR BASE BOLT CIRCLE		POLE		ANCHOR BOLTS		
		DIA (IN)	± (IN)	SQ. (IN)	THK (IN)	BOLT SIZE (IN)	PROJ. (IN)	± (IN)
5.25	11	10.75	N/A	10.75	0.750	1.00 x 36.00 x 4.00	4.00	0.25
5.50	7	11.00	N/A	11.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
6.00	11	12.00	N/A	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.41	11	12.50	N/A	11.88	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.41	7	12.50	N/A	11.88	1.250	1.00 x 36.00 x 4.00	4.50	0.25
6.81	11	13.00	N/A	12.25	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.13	7	13.50	N/A	12.63	1.250	1.00 x 36.00 x 4.00	4.50	0.25
7.18	11	13.50	N/A	12.63	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.88	7	14.50	N/A	13.38	1.250	1.00 x 36.00 x 4.00	4.50	0.25
8.75	7	15.75	N/A	14.25	1.500	1.25 x 42.00 x 6.00	5.25	0.25
8.81	7	16.00	N/A	15.50	1.250	1.25 x 42.00 x 6.00	5.00	0.25

OPTIONS

FS Festoon box only

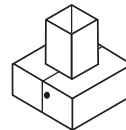
NOTE: Casting only. Outlet, cover and hardware by others. The festoon box is located above the access door at 0°, approximately 41" above ground level.



OPTIONS

FULL BASE COVER — 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 square.

FBCS	Full base cover, steel
NC	Nut covers



LOAD AND DIMENSIONAL DATA

HEIGHT (FT)	CATALOG NUMBER	SHAFT				80 MPH ^{3,4}		90 MPH ^{3,4}		100 MPH ^{3,4}	
		POLE BASE SQ. (IN)	POLE TOP SQ. (IN)	WALL THK. (GA)	STRUCT. WT. ⁵ (LBS)	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 ⁶	5.25	3.05	11	155	18.0	452	13.8	345	10.7	268
	STS-200-0550-7 ⁶	5.50	3.30	7	235	30.5	764	24.0	602	19.0	477
25	STS-250-0600-11 ⁶	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
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

³ 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 Williams Outdoor Information Section, page 6, for Load and Dimensional Data specifics.

⁴ Wind map provided in Williams Outdoor information section, pole information page 6.

⁵ Structure weight is a nominal value which includes the pole shaft and base plate only.

⁶ 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.

