

# DECORATIVE LAMP POST

POLE **TS45** DECORATIVE BASE **D13M** 

- Tapered, smooth composite pole shaft
- Direct Embedded and Anchor Base models
- XTREME<sup>®</sup> elastomeric urethane base cover

## **Ordering Information**

### SAMPLE CATALOG NUMBER LOGIC

	В	С	D	Е	F
TS45-D13M	18	DE	DGR	40	
TS45-D13M 25		AB	BLK	35	RC
BASE & POLE DESIGN			COLOR	TENON O.D.	OPTIONS

### **B** ABOVE GRADE HEIGHT

B	Above Grade Height				
	Cat No.	Description			
	10	10 feet/3.0M			
	11	11 feet/3.4M			
	12	12 feet/3.7M			
	13	13 feet/4.0M			
	14	14 feet/4.3M			
	15	15 feet/4.6M			
	16	16 feet/4.9M			
	17	17 feet/5.2M			
	18	18 feet/5.5M			
	19	19 feet/5.8M			
	20	20 feet/6.1M			
	21	21 feet/6.40M			
	22	22 feet/6.71M			
	23	23 feet/7.01M			
	24	24 feet/7.32M			
	25	25 feet/7.62M			
	26	26 feet/7.92M			
	27	27 feet/8.32M			
	28	28 feet/8.53M			
	29	29 feet/8.84M			
	30	30 feet/9.14M			
С	INSTA	llation Method			
	Cat No.	Description			
	DE	Direct Embedded			
	AB	Anchor Base			
D		Color			
	Cat No.	Description			
	BLK	Black			
	MTB	Matte Black			
	DBZ	Dark Bronze			

	Malle Diack
DBZ	Dark Bronze
DGR	Dark Green
HTG	Hunter Green
SLV	Silver
	W/bito

WHT White GRY Grey

CC	Custom color - Please
provid	de a min. 3" x 3" color chip.
RAL	Please provide a four digit
RAL	color number.

E	TENO	N O.D. (OUTSIDE DIAMETER)
	Cat No.	Description
	23	2 3/8" (60 mm)
	27	2 7/8" (73mm)
	30	3" (76mm) nominal
	35	3 1/2" (89mm)
_	40	4" (102 mm)

Tenons include a cast decorative ring at the top of the pole.

• For other tenon sizes contact the factory.

#### F OPTIONS

# Cat No. Description

**RC** Receptacle housing and a NEC approved cover. GFCI receptacle by others. Standard location is 12"/305mm below the top of the pole.

• Other accessories are shown on the Accessories specification sheet.



ABOVE GRADE

HEIGHT

20' MODEL

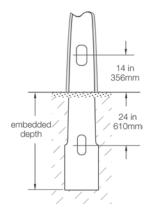
SHOWN

HEIGHT: 20"/508mm BASE DIAMETER: 16.5"/419mm

### TAPERED SMOOTH POLE SHAFT

DECORATIVE BASE D13M

### Direct Embedded - DE



Shaft Length	Embedded Depth			
10 to 13 feet	3ft/.91M			
14 to 24 feet	4ft/1.2M			
25 to 30 feet	5ft/1.5M			
* Enclosed and				

\* Embedded depths may vary per local codes, site soil conditions, drainage and very high wind conditions.

Hand hole is: 2.5"/62mm x 5"/125mm.

# Specifications

### POLE SHAFT

The pole shaft shall be round tapered, smooth with a .14"/3.5mm per foot taper. The hand hole shall be 2.5"/ $62mm \times 5$ "/125mm with a cover. The shaft shall be constructed of continuous fiberglass filament combined with a thermosetting resin. The glass filament shall be helically wound at alternating high and low angle layers for maximum compressive and bending strength. The hand hole area and hardware attachment areas shall be reinforced. The poles shall be designed with a minimum safety factor of 1.5:1 and have a maximum deflection of 15% under full wind loading conditions.

The butt end of the embedded-type post shall be enlarged and oval to increase the resistance to rotation and provide maximum ground bearing resistance (anti-lift). The post shall be non-conductive and chemically inert.

#### PERFORMANCE CRITERIA

The post shall be designed with a minimum safety factor of 1.5:1 and have no more than a 15% deflection at full wind loading. The post shall deflect no more than 2.5% of the above-ground length with 100 lbs. of lateral top load. Poles shall be tested and rated per ANSI C136.20-2012.

#### DIRECT EMBEDDED INSTALLATION

Direct embedded poles shall have a 2.5 inch (62mm) by 6 inch (152mm) slot for conduit entrance 24 inches (610mm) below finished grade. Embedded depths may vary per local codes, site soil conditions, drainage and very high wind conditions.

#### ANCHOR BASE

Anchor bases shall be constructed of primed and painted aluminum or galvanized steel. The base shall be factory bonded to the post. The anchor base shall have four holes at ninety degrees, accommodating a bolt circle of 7-9 inches, 9-11 inches or 12 inches.

#### POST TOP

A painted aluminum or galvanized steel tenon shall be firmly bonded to the pole for mounting a post-top luminaire or arm.

#### FINISH

The surface of the post shall be uniform and consistent for the entire length of the post. A UV-resistant catalyzed urethane coating shall be extremely durable and retains its gloss after a 5000 hour exposure test (ASTM G-154) to the sun, with no dulling or chalking of the surface.

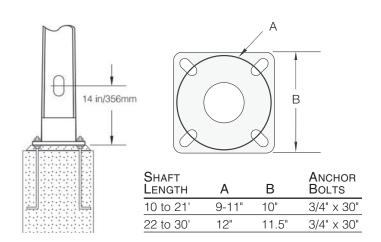
#### ORNAMENTAL BASE COVER

The ornamental decorative base cover shall be one or two piece and constructed of a proprietary elastomeric urethane and finished to match the post. The base shall be corrosion free and extremely resistant to impact and chipping.

#### WARRANTY

The products shall be warranted to be free of defects for three years from the date of shipment from the factory.

### Anchor Base Installation - AB



### Wind Loading Data for Direct Embedded and Anchor Base

		1	WIND SPEED (MPH) WITH 3 SECOND GUST FACTOR						
No.	Description	WT	90	100	110	120	130	140	150
10	feet/3.10M	39	14.8	11.9	9.7	8.1	6.8	5.8	5.0
11	feet/3.35M	45	15.0	12.0	9.8	8.1	6.8	5.8	5.0
12	feet/3.66M	51	14.1	11.2	9.1	7.6	6.4	5.4	4.7
13	feet/3.96M	54	13.1	10.1	8.5	7.0	5.9	5.0	4.3
14	feet/4.27M	58	12.7	10.1	8.2	6.7	5.6	4.8	4.1
15	feet/4.57M	65	12.5	9.9	8.0	6.6	5.5	4.7	4.0
16	feet/4.88M	68	12.6	10.0	8.1	6.7	5.6	4.7	4.0
17	feet/5.18M	72	11.3	8.9	7.2	5.9	4.9	4.1	3.5
18	feet/5.49M	76	12.2	9.6	7.8	6.4	5.3	4.5	3.8
19	feet/5.79M	80	11.0	8.7	7.0	5.7	4.7	4.0	3.4
20	feet/6.10M	85	10.8	8.5	6.8	5.6	4.6	3.9	3.3
21	feet/6.40M	102	10.9	8.6	6.9	5.6	4.7	3.9	3.3
22	feet/6.71M	106	8.8	6.9	5.5	4.4	3.6	3.0	2.4
23	feet/7.01M	109	8.3	5.9	5.1	4.1	3.4	2.8	2.2
24	feet/7.32M	113	8.1	6.3	5.0	4.0	3.3	2.7	2.1
25	feet/7.62M	117	7.9	6.1	4.8	3.9	3.2	2.6	2.0
26	feet/7.92M	121	7.7	6.0	4.7	3.8	3.1	2.5	1.9
27	feet/8.32M	125	6.6	5.1	4.0	3.1	2.5	2.0	1.4
28	feet/8.53M	128	6.4	4.9	3.8	3.0	2.4	1.9	1.3
29	feet/8.84M	132	6.2	4.8	3.7	2.9	2.3	1.8	1.2
30	feet/9.14M	136	5.1	3.8	2.9	2.2	1.7	1.3	0.8
	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	No. Description   10 feet/3.10M   11 feet/3.35M   12 feet/3.66M   13 feet/3.96M   14 feet/4.27M   15 feet/4.57M   16 feet/4.88M   17 feet/5.18M   18 feet/5.49M   19 feet/5.79M   20 feet/6.10M   21 feet/6.40M   22 feet/6.71M   23 feet/7.01M   24 feet/7.32M   25 feet/7.62M   26 feet/7.92M   27 feet/8.32M   28 feet/8.53M   29 feet/8.84M   30 feet/9.14M	No. Description WT   10 feet/3.10M 39   11 feet/3.35M 45   12 feet/3.66M 51   13 feet/3.96M 54   14 feet/4.27M 58   15 feet/4.57M 65   16 feet/4.88M 68   17 feet/5.18M 72   18 feet/5.79M 80   20 feet/6.10M 85   21 feet/6.40M 102   22 feet/6.71M 106   23 feet/7.01M 109   24 feet/7.32M 113   25 feet/7.62M 117   26 feet/7.92M 121   27 feet/8.32M 128   28 feet/8.53M 128   29 feet/8.84M 132	No. DescriptionWT9010 feet/3.10M3914.811 feet/3.35M4515.012 feet/3.66M5114.113 feet/3.96M5413.114 feet/4.27M5812.715 feet/4.57M6512.516 feet/4.88M6812.617 feet/5.18M7211.318 feet/5.49M7612.219 feet/5.79M8011.020 feet/6.10M8510.821 feet/6.40M10210.922 feet/6.71M1068.823 feet/7.32M1138.125 feet/7.62M1177.926 feet/7.92M1217.727 feet/8.32M1286.429 feet/8.84M1326.2	No. DescriptionWT9010010 feet/3.10M3914.811.911 feet/3.35M4515.012.012 feet/3.66M5114.111.213 feet/3.96M5413.110.114 feet/4.27M5812.710.115 feet/4.57M6512.59.916 feet/4.88M6812.610.017 feet/5.18M7211.38.918 feet/5.49M7612.29.619 feet/5.79M8011.08.720 feet/6.10M8510.88.521 feet/6.40M10210.98.622 feet/7.01M1098.35.924 feet/7.32M1138.16.325 feet/7.62M1177.96.126 feet/7.92M1217.76.027 feet/8.32M1256.65.128 feet/8.53M1286.44.929 feet/8.84M1326.24.8	No. DescriptionWT9010011010 feet/3.10M3914.811.99.711 feet/3.35M4515.012.09.812 feet/3.66M5114.111.29.113 feet/3.96M5413.110.18.514 feet/4.27M5812.710.18.215 feet/4.57M6512.59.98.016 feet/4.88M6812.610.08.117 feet/5.18M7211.38.97.218 feet/5.49M7612.29.67.819 feet/5.79M8011.08.77.020 feet/6.10M8510.88.56.821 feet/6.40M10210.98.66.922 feet/6.71M1068.86.95.523 feet/7.01M1098.35.025 feet/7.62M1177.96.14.826 feet/7.92M1217.76.04.727 feet/8.32M1286.44.93.829 feet/8.84M1326.24.83.7	No. DescriptionWT9010011012010 feet/3.10M3914.811.99.78.111 feet/3.35M4515.012.09.88.112 feet/3.66M5114.111.29.17.613 feet/3.96M5413.110.18.57.014 feet/4.27M5812.710.18.26.715 feet/4.57M6512.59.98.06.616 feet/4.88M6812.610.08.16.717 feet/5.18M7211.38.97.25.918 feet/5.49M7612.29.67.86.419 feet/5.79M8011.08.77.05.720 feet/6.10M8510.88.56.85.621 feet/6.40M10210.98.66.95.622 feet/7.01M1098.35.95.14.124 feet/7.32M1138.16.35.04.025 feet/7.62M1217.76.04.73.827 feet/8.32M1256.65.14.03.128 feet/8.53M1286.44.93.83.029 feet/8.84M1326.24.83.72.9	No. DescriptionWT9010011012013010 feet/3.10M3914.811.99.78.16.811 feet/3.35M4515.012.09.88.16.812 feet/3.66M5114.111.29.17.66.413 feet/3.96M5413.110.18.57.05.914 feet/4.27M5812.710.18.26.75.615 feet/4.57M6512.59.98.06.65.516 feet/4.88M6812.610.08.16.75.617 feet/5.18M7211.38.97.25.94.918 feet/5.49M7612.29.67.86.45.319 feet/5.79M8011.08.77.05.74.720 feet/6.10M8510.88.56.85.64.621 feet/6.40M10210.98.66.95.64.722 feet/7.01M1098.35.95.14.13.424 feet/7.32M1138.16.35.04.03.325 feet/7.62M1177.96.14.83.93.226 feet/7.92M1256.65.14.03.12.528 feet/8.33M1286.44.93.83.02.429 feet/8.84M1326.24.83.72.92.3	No. DescriptionWT9010011012013014010 feet/3.10M3914.811.99.78.16.85.811 feet/3.35M4515.012.09.88.16.85.812 feet/3.66M5114.111.29.17.66.45.413 feet/3.96M5413.110.18.57.05.95.014 feet/4.27M5812.710.18.26.75.64.815 feet/4.57M6512.59.98.06.65.54.716 feet/4.88M6812.610.08.16.75.64.717 feet/5.18M7211.38.97.25.94.94.118 feet/5.49M7612.29.67.86.45.34.519 feet/5.79M8011.08.77.05.74.74.020 feet/6.10M8510.88.56.85.64.63.921 feet/6.40M10210.98.66.95.64.73.922 feet/7.01M1098.35.95.14.13.42.824 feet/7.32M1138.16.35.04.03.32.725 feet/7.62M1177.96.14.83.93.22.626 feet/7.92M1217.76.04.73.83.12.527 feet/8.32M1256.65.14.0 <t< th=""></t<>

Wind speed values are for a 3-second gust per ASCE. Calculated per ANSI C136.20-2012. Assumes load 12 inches above the pole top. Safety factor = 1.5:1. Maximum weight for tenon mount is 100 lbs.

Contact factory for AASHTO or specific local codes.



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