

Composite Pole - TR30

Designed for Post Top Applications

- Tapered composite pole shaft
- Direct embedded and anchor base models
- Base cover provided with AB pole

Ordering Information

Sample Catalog Number Logic

	B	C	D	E	F	G
TR30	16	DE	BLK	TXT	23	•
TR30	20	AB	DGR	SMS	30	•
Pole	Above Grade Height	Installation Method	Color	Surface Finish	Tenon O.D.	Options

B Above Grade Height

Cat No.	Description
TR30-10	10 feet /3.0 M
TR30-11	11 feet /3.4 M
TR30-12	12 feet /3.7 M
TR30-13	13 feet /4.0 M
TR30-14	14 feet /4.3 M
TR30-15	15 feet /4.6 M
TR30-16	16 feet /4.9 M
TR30-17	17 feet /5.2 M
TR30-18	18 feet /5.5 M
TR30-19	19 feet /5.8 M
TR30-20	20 feet /6.1 M

F Tenon O.D.

Cat No.	Description
23	2 3/8" (60 mm) O.D.
30	3" (76 mm) O.D.
99	Custom Tenon O.D.

C Installation Method

Cat No.	Description
DE	Direct Embedded
AB	Anchor Base

D Color

Cat No.	Description
BLK	Black
DBZ	Dark Bronze
DGR	Dark Green
SLV	Silver
WHT	White
GRY	Grey
CC	Custom Color - Please provide a min. 3" x 3" color chip.

E Surface Finish

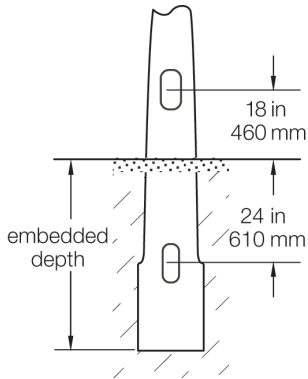
Cat No.	Description
TXT	Natural texture of the reinforcing strands
SMS	Smooth surface finish



ABOVE GRADE
HEIGHT
20' MODEL
SHOWN

TR30 Tapered composite pole shaft

Direct Embedded - DE

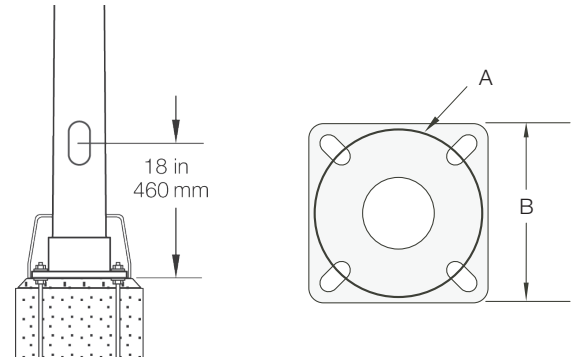


Shaft Length	Embedded Depth
10 to 13 ft	3 ft / .91 M
14 to 20 ft	4 ft / 1.2 M

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

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

Anchor Base Installation - AB



Specifications

POLE SHAFT

The pole shaft shall be round tapered, smooth with a .14"/3.5 mm per foot taper. The hand hole shall be 2.5"/62 mm x 5"/125 mm 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 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 (62 mm) by 6 inch (152 mm) slot for conduit entrance 24 inches (610 mm) 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 pole.

TENON

A painted galvanized steel or aluminum 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 per ASTM G154, with no dulling or chalking of the surface.

BASE COVER

For anchor-base poles, the standard base cover shall be a round or square two-piece molded ABS cover. This base cover shall be corrosion free and painted to match the pole. Base covers are not included with direct-embedded poles.

Anchor Base Dimensions for TR30

- Hand hole is 2.5"/62 mm x 5"/125 mm
- Mounting slots are .75"/19 mm x 1.5"/38 mm for 8" bolt circle and 1"/25 mm x 1.5"/38 mm for 10" bolt circle
- Conduit entry hole in base plate is 4.0"/100 mm

Shaft Length	Bolt Circle (A)	Base Plate Size (B)	Anchor Bolts
10' - 15'	8"/203 mm	7.5"/190 mm	5/8" x 21"
16' - 20'	8.5"/258 mm	8.125"/256 mm	5/8" x 21"

Wind Loading Data

Cat No.	Description	WT	WIND SPEED (MPH) WITH 3 SECOND GUST FACTOR							
			90	100	110	120	130	140	150	
10	10 feet/3.10 M	25	5.5	4.1	3.2	2.4	1.9	1.6	1.3	
11	11 feet/3.35 M	27	5.9	4.5	3.4	2.6	2.1	1.8	1.5	
12	12 feet/3.66 M	29	6.0	4.5	3.4	2.6	2.1	1.8	1.5	
13	13 feet/3.96 M	31	6.1	4.5	3.4	2.6	2.1	1.7	1.4	
14	14 feet/4.27 M	33	6.3	4.7	3.5	2.7	2.2	1.8	1.5	
15	15 feet/4.57 M	37	6.1	4.5	3.3	2.6	2.1	1.7	1.4	
16	16 feet/4.88 M	40	6.3	4.6	3.4	2.7	2.2	1.8	1.5	
17	17 feet/5.18 M	43	5.9	4.2	3.1	2.5	2.0	1.6	1.3	
18	18 feet/5.49 M	47	5.7	4.1	3.0	2.4	1.9	1.5	1.2	
19	19 feet/5.79 M	50	5.3	3.7	2.8	2.2	1.7	1.4	1.1	
20	20 feet/6.10 M	54	5.6	3.9	3.0	2.3	1.9	1.5	1.2	

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 75 lbs. Contact factory for AASHTO or specific local codes.