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/3.0M
TR30-11	11 feet/3.4M
TR30-12	12 feet/3.7M
TR30-13	13 feet/4.0M
TR30-14	14 feet/4.3M
TR30-15	15 feet/4.6M
TR30-16	16 feet/4.9M
TR30-17	17 feet/5.2M
TR30-18	18 feet/5.5M
TR30-19	19 feet/5.8M
TR30-20	20 feet/6.1M

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

F Tenon Size

Cat No.	Description
23	2 3/8" (60 mm) OD x 3 3/4" (95mm) height
30	3" (76mm) OD x 3 3/4" (95mm) height
99	Custom Tenon Size

G Options

Cat No.	Description
RBC	XTREME urethane composite base cover for direct embedded (DE) installations. Painted to match the pole color.

• Other accessories are shown on the Accessories specification sheet.

ABOVE GRADE HEIGHT
20' MODEL SHOWN

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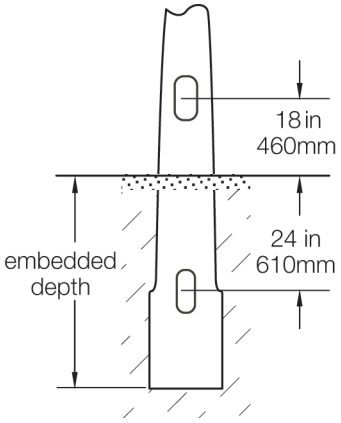
Direct Embedded - DE

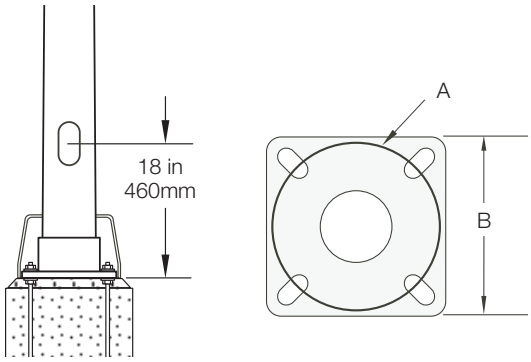


SHAFT LENGTH	EMBEDDED DEPTH
10 to 13 feet	3ft/.91M
14 to 20 feet	4ft/1.2M

* 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.

Anchor Base Installation - AB



Anchor Base Dimensions for TR30

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

SHAFT LENGTH	BOLT CIRCLE (A)	BASE PLATE SIZE (B)	ANCHOR BOLTS
10'-15'	8"/203MM	7.5"/190MM	5/8" X 21"
16'-20'	8.5"/258MM	8.125"/256MM	5/8" X 21"

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 x 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 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 (ASTM) to the sun, with no dulling or chalking of the surface.

BASE COVER
The standard base cover shall be a round or square two-piece molded ABS cover. Optional base cover – Proprietary elastomeric urethane or fiberglass (one or two-piece). All base covers shall be corrosion free and painted to match pole.

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

Wind Loading Data for Direct Embedded and Anchor Base

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

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SPC7393 02/17