

Poles - Straight Round Steel

► Poles

GENERAL SPECIFICATIONS

POLE SHAFT: The pole shaft is fabricated from weldable grade hot rolled commercial quality carbon steel tubing and is supplied in 11 gauge (0.1196") or 7 gauge (0.1793") material thickness having a guaranteed minimum yield strength of 42,000 psi. Shafts are of one-piece construction with a full length longitudinal high frequency electric resistance weld. The shaft is uniformly round in cross section with no taper.

ANCHOR BASE: The anchor base (base plate) is fabricated from structural quality hot rolled carbon steel plate conforming to ASTM A36 with a minimum yield strength of 36,000 psi. The base plate telescopes the pole shaft and is circumferentially welded top and bottom. The base is provided with a slotted anchor bolt opening that enables a range of bolt circles to be utilized. The pole chart information lists bolt circle ranges for each pole type.

ANCHOR BOLTS: The anchor bolts are fabricated from carbon steel bar conforming to AASHTO M314 Grade-55 or ASTM F1554 Grade-55 that meets or exceeds a minimum strength of 50,000 psi. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end. Four anchor bolts are provided per pole. Each anchor bolt is furnished with (2) each - regular hex nuts and flat washers, unless otherwise specified.

HANDHOLE: The reinforcing handhole has a nominal rectangular 2-1/2" X 4-1/2" inside opening in the pole shaft. It is provided with a cover plate, attachment bar, and machine screw. The handhole is welded in the pole shaft and is located 16 inches above base plate and on the same side with respect to the luminaire arm. For two arms with 180° arrangement, handhole is located on the side of the pole with no luminaire arm.

ELECTRICAL GROUND: Grounding bolt is welded inside the pole shaft on the opposite side of the handhole and includes 3/8"-16 UNC hex head bolt and nut.

BASE COVER: The standard two-piece base cover completely conceals the entire base plate and anchorage.

POLE TOP CAP: A removable top cap is provided and is used in conjunction with drilled pole shafts for accommodation of a direct mounted luminaire attachment.

POLE TOP TENON (OPTIONAL): Pole top tenons are fabricated from structural quality hot rolled carbon steel with a guaranteed minimum yield strength of 30,000 psi. A pole top plate and tenon of weldable grade hot rolled commercial quality carbon steel is circumferentially welded to the top of the pole shaft. This plate provides an internal weather resistant wire way into the pole top tenon. Standard size is 2-3/8" O.D. X 4" long steel tubing.

STANDARD FINISH: Poles are finished with electrostatically applied and thermally cured TGIC polyester powdercoat. For other coating systems beyond the standard finish, please consult factory.

DESIGN: The poles as charted are designed to withstand dead loads and theoretical dynamic loads developed by variable wind speeds with an appropriate gust factor under the following conditions:
The wind velocities are based on 10 mph increments from 80 mph to 100 mph. Pole standards to be located in areas of known abnormal conditions require special consideration. For example, coastal areas, airports, and areas of special winds such as canyons and mountains.

Standards are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration.

Height correction factors and drag coefficients are applied to the entire structure. An appropriate safety factor is maintained based on the minimum yield strength of the material incorporated in the standard. However, for any scope beyond the standard application, please consult governing agency and qualified professional.

WARNING:

Factory supplied template must be used when setting anchor bolts. Newport Lighting will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

The standard is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessory and foundation under the given site conditions and intended usage. Newport Lighting assumes no responsibility for such proper analysis or product selections.

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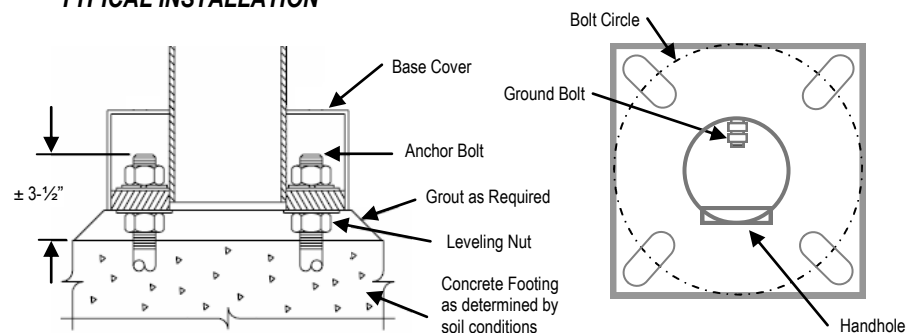
FEATURES

Straight round steel poles are fabricated from commercial quality carbon steel tubing. The shafts are of one-piece construction and circumferentially welded to ASTM A36 base plate, providing excellent strength and integrity. Grounding bolt is welded opposite of the handhole. The poles are finished with an electrostatically applied, thermally cured TGIC polyester powdercoat. All poles typically includes anchor bolts, base cover, handhole cover and pole cap.

DIMENSIONS / WEIGHT ANCHOR BOLTS / BOLT PATTERN						ALLOWABLE EPA MAXIMUM WEIGHT					
MOUNTING HEIGHT (ft)	SHAFT SIZE O.D. (in)	WALL THK (in)	STRUCT. WEIGHT (lbs)	ANCHOR BOLTS Dia x Lngth x Rt (in)	BOLT CIRCLE Diameter (in)	80 MPH w/ 1.3 Gust		90 MPH w/ 1.3 Gust		100 MPH w/ 1.3 Gust	
						EPA (ft ²)	Weight (lbs)	EPA (ft ²)	Weight (lbs)	EPA (ft ²)	Weight (lbs)
10	3	.120	55	3/4 x 24 x 4	9 ± 1/2	10.0	250	7.7	190	6.0	175
10	4	.120	70	3/4 x 24 x 4	10 ± 1/2	19.1	480	15.0	375	12.2	305
12	3	.120	60	3/4 x 24 x 4	9 ± 1/2	7.7	195	5.8	145	4.4	130
12	4	.120	80	3/4 x 24 x 4	10 ± 1/2	15.0	390	11.8	300	9.5	240
14	4	.120	90	3/4 x 24 x 4	10 ± 1/2	12.2	305	9.4	250	7.6	195
16	4	.120	100	3/4 x 24 x 4	10 ± 1/2	9.6	250	7.4	185	5.9	150
18	4	.120	110	3/4 x 24 x 4	10 ± 1/2	7.6	190	5.7	180	4.5	130
20	4	.120	120	3/4 x 24 x 4	10 ± 1/2	6.0	150	4.45	150	3.4	125
25	5	.120	180	1 x 36 x 4	12 ± 1/2	7.2	180	5.5	150	4.2	150
25	5	.180	260	1 x 36 x 4	12 ± 1/2	12.1	300	9.4	250	7.4	200
25	6	.220	400	1 x 36 x 4	14 ± 1/2	22.0	-	17.0	-	13.0	-
30	5	.120	210	1 x 36 x 4	12 ± 1/2	4.2	150	3.0	125	2.2	100
30	5	.180	305	1 x 36 x 4	12 ± 1/2	8.0	200	6.5	160	4.7	125
30	6	.220	540	1 x 36 x 4	14 ± 1/2	16.0	-	12.0	-	9.0	-

TYPICAL INSTALLATION

Note: Mounting height is the vertical distance from the base of the lighting pole to the center of the luminaire arm at the point of luminaire attachment. Maximum weight and EPA values are determined by analyzing stress from two wind directions, across flats and across points. The design information is intended as a general guideline only. Consult governing agency and qualified professional.



ORDER GUIDE

POLE	SIZE	SHAPE	MATERIAL	WALL THK	LENGTH	HARDWARE	COLOR
P	4	RD	STL	120	20	HRDWR	DB
OPTIONS	<input type="checkbox"/> TN = TENON <input type="checkbox"/> DTB = DIRECT BURIAL			<input type="checkbox"/> CP = COUPLING (1/2" OR 3/4") <input type="checkbox"/> CC = CUSTOM COLOR			