

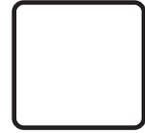
Notes:

Job:

Type:

POLES

TAPERED SQUARE STEEL



GENERAL DESCRIPTION: The Gardco/Emco Lighting GTS tapered square steel pole consists of a one-section design fabricated steel tubing circumferentially welded to a structural quality hot rolled carbon steel plate. The poles are finished with an electrostatically applied, thermally cured TGIC polyester powdercoat. All poles include anchor bolts, full base cover, hand hole, ground lug and top cap.

ORDERING

PREFIX	HEIGHT	SIZE	DRILLING	FINISH	OPTIONS
<input type="text"/>					

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

GTS

HEIGHT

20'
25'
30'
35'
39'

GAUGE

7
11

DRILLING

D1 1 Way (3 Holes)
D2 2 Way (6 Holes)
D3 3 Way (9 Holes)
D4 4 Way (12 Holes)

T2 2 3/8" X 4" OD Tenon
T4 4" X 6" OD Tenon

FINISH

PP	Prime Painted	OC	Optional Color Paint Specify RAL designation ex: OC-RAL7024.
BRP	Bronze Paint		
BLP	Black Paint	SC	Special Color Paint Specify. Must supply color chip.
WP	White Paint		
NP	Natural Aluminum Paint		
GV	Galvanized (No Paint)		
FPGV	Finished Paint over Galvanized (specify color)		

OPTIONS

FES	Festoon Outlet	Side Mount Bullhorn Brackets
AHH	Additional Hand Hole Indicate height above base and orientation to original hand hole	GM-080* Single Side Mount Bullhorn Bracket *Add "-19" for 1.9" OD or "24" for 2.4" OD. Refer to Accessory sheet 79415-26 for details
CL	Coupling - Internal thread. Indicate height above base, orientation to hand hole and size (1/2", 3/4", 1", 1 1/4", 1 1/2")	

Refer to Aluminum Pole Accessories cutsheet 79415-26 additional details

POLE DATA

CATALOG NUMBER	POLE SIZE		MAXIMUM LUMINAIRE LOADING*			ANCHOR BOLT DATA**	
			100 MPH EPA-FT ²	90 MPH EPA-FT ²	80 MPH EPA-FT ²	BOLT CIRCLE (inches)	BOLT SIZE (inches)
GTS-20-11	20'	5.25 x 3.05	10.7	13.8	18.0	10.75"	1 x 36 x 4.5
GTS-25-11	25'	6.0 x 3.25	9.5	12.6	16.8	12.00"	1 x 36 x 4.5
GTS-30-11	30'	6.41 x 3.11	7.0	9.8	13.6	12.50"	1 x 36 x 4.5
GTS-35-11	35'	6.81 x 2.96	4.8	7.3	10.7	13.00"	1 x 36 x 4.5
GTS-39-11	38' 9"	7.13 x 2.92	3.0	5.4	8.6	13.50"	1 x 36 x 4.5
GTS-39-7	38' 9"	7.13 x 2.87	10.4	14.2	19.3	13.50"	1 x 36 x 4.5

*Warning: Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability.

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

Gardco Lighting/EMCO Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

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A Genlyte Company

2661 Alvarado Street
San Leandro, CA 94577
800/227-0758
510/357-6900 in California
Fax: 510/357-3088
www.sitelighting.com



79415-20/1007

POLES TAPERED SQUARE STEEL

SPECIFICATIONS

POLE SHAFT: The pole shaft conforms to ASTM A595 Grade-A and is supplied in 11 gauge (0.1196"), or 7 gauge (0.1793") steel. It is one-piece construction with a full-length longitudinal high frequency resistance weld and is square in cross section having a uniform taper of 0.11 inches per foot of length.

ANCHOR BASE: The anchor base (base plate) is fabricated from structural quality hot-rolled carbon steel plate conforming to ASTM A36. The base plate telescopes the pole shaft and is circumferentially welded top and bottom.

ANCHOR BOLTS: Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar with a minimum yield strength of 55,000 PSI. Bolts have an "L" bend on one end and threaded on the opposite end. Anchor bolts are hot-dipped galvanized a minimum length of 12" on the threaded end. Four (4) properly sized bolts, each furnished with two (2) hex nuts and flat washers, are provided per pole, unless otherwise specified.

BASE COVER: A two-piece base cover completely seals the entire base plate and anchorage. The base cover is secured together with two (2) fasteners.

HAND HOLE: Square poles less than 6.375" square have a 3" x 5" handhole. Larger square poles have a 4" x 6.5" oval handhole. A nut holder is provided near the handhole and includes a .5" - 13 UNC hex head bolt and nut for grounding. The handhole is circumferentially welded in the pole shaft and includes a steel cover with attachment screws. The handhole is located at 1' 6" above the base of the pole.

FINISH: The standard finish for pole and accessories is an electrostatically applied, thermally cured TGIC polyester powdercoat. Prime painted poles are also available.

FASTENERS: All structural fasteners are galvanized high strength carbon steel. All fasteners are galvanized or zinc plated carbon steel or stainless steel.

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 luminaire(s) and/or mounting bracket(s) center of gravity is assumed to be located a maximum of 2' 6" above the pole top. For purposes of this design, their effective projected area (EPA) is considered to be the product of the actual projected area and the drag coefficient.

The charted weights include luminaire(s) and/or mounting bracket(s) and are based on an approximate weight to EPA ratio of 25 pounds per square foot.

The wind velocities are based on 10 mph increments from 80 mph through 100 mph. Poles to be located in areas of known abnormal conditions may require special consideration. For example: coastal areas, airports and areas of special winds.

Poles are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration requiring Gardco/Emco Lighting's recommendation.

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 pole.

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.

For loadings other than those covered in the design section, such as overhead wiring, guying of the poles or other field installed attachments, consult the factory for recommendations.

WARNING: This design information 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. The addition of any items to the pole, in addition to the luminaire, will dramatically impact the EPA load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Gardco/Emco Lighting and Genlyte Thomas Group, LLC assume no responsibility for such proper analysis or product selections. **Failure to insure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.**

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

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