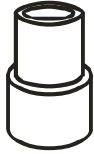


Part Number: VRST20-4.5-156*999



Mounting Type	
Tenon Mount	

Pole Shaft

The pole shaft is one piece construction, fabricated from weldable grade carbon steel tubing. Pole shaft shall conform to the ASTM A-53 Grade B with a minimum yield strength of 52,000 psi.

Handhole

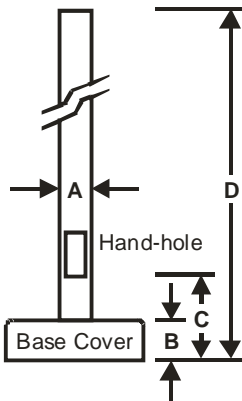
A 2-1/4" x 4" rectangular handhole is located 8 inches up from the base plate. A handhole comes standard on all poles unless otherwise specified. A grounding lug is welded inside each handhole.

Baseplate

The pole baseplate is fabricated from structural quality hot rolled carbon steel plate with a minimum yield of 36,000 psi. The pole shaft slips through the base plate and is welded top and bottom.

Standard Finish

Powder coating is the standard finish. Charged particles are applied to the surface of the pole. After the pole is coated, the finish is baked on. This process provides superior durability.



Pole Dimensions			
A	B	C	D
4.5in.	3.5in.	8in.	20ft.
Wall thickness (in.)			0.156

Anchor Bolts

Anchor bolts are fabricated from material with a minimum yield strength of 36,000 psi. Each pole requires four anchor bolts of the proper size. Anchor bolts are sold as an assembly including two hex nuts and washers each, all are hot dip galvanized.

How to Select the Proper Pole

1. Determine the maximum wind velocity in your area as indicated on the national wind velocity map.
2. Add the EPA's of the desired luminaire(s) and mounting bracket(s) to determine the total.
3. Select a pole with an EPA that is sufficient for the wind velocity and the total of the luminaire(s) and mounting bracket(s).

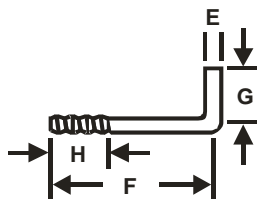
Shipping Weight

180 lbs.

The nominal shipping weight includes the weight of the pole, base cover, base plate, anchor bolts, nuts, washers and mount if applicable.

WARNING

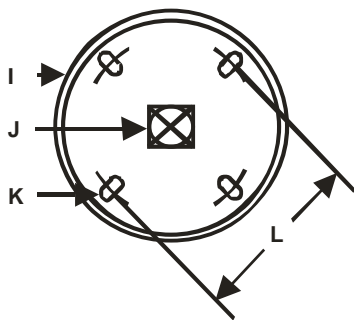
This information is intended as a general guideline only. The customer is solely responsible for the proper selection of the pole, luminaire, accessories, and foundation for the site conditions and intended usage. Mounting items, in addition to the luminaire will impact the EPA load on the pole. A qualified professional should be consulted to analyze the load to ensure proper selection of the pole, luminaire, accessories, and foundation. Valley Nut and Bolt Company, Inc. assumes no responsibility for such analysis or product selection. Failure to ensure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.



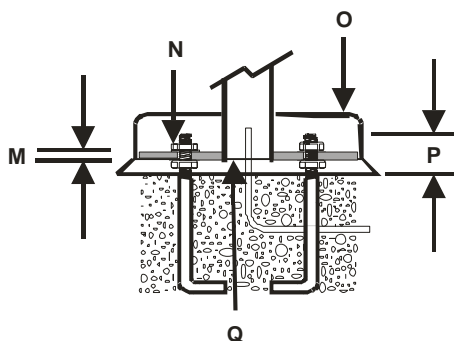
Anchor Bolt Dimensions			
E	F	G	H
3/4	26	4	4

Installation Notes

Grout must be packed under base to ensure full contact with foundation. Factory supplied templates must be used to set anchor bolts. Do not erect poles without all fixtures installed.



Base Plate Specs	
I	Base Cover
J	Min. 3" access hole
K	Slotted bolt holes
L	Bolt circle dia. 9.5"



Installation Specs	
M	Base plate is 0.5 inches thick
N	Leveling nut and washer
O	Base cover is 3.5 inches high
P	Anchor bolt projection is 4 inches
Q	Pole must contact grouted surface

Maximum EPA per sq. ft.		
80 mph	90 mph	100 mph
11.9	9.4	7.6

All EPA values are calculated using ASCE 7-98, Exposure C with a wind gust factor of 1.3.