

EMBEDDED ROUND NON-TAPERED ALUMINUM ERNTA

SPECIFICATIONS

Shaft

Spun tapered from 6063 alloy aluminum tubing. Heat treated to produce a T6 temper. Shaft is furnished with ground lugs located on cast aluminum base plate.

Embed and Direct Burial Detail

Designed for durability and stability, the bottom of the embedded pole section includes welded aluminum wings to prevent rotation and ensure secure placement. Wire access holes are conveniently located 24 inches below the ground line for easy installation and maintenance. Due to varying soil conditions at different sites, it is essential that foundation requirements be assessed by a qualified Structural Engineer familiar with the specific soil characteristics of the job site. This ensures optimal performance and longevity of the installation.

Drilling Side Mount

A removable pole cap is included. Pole will be drilled to match customer provided drilling template.

Pole Top Mount

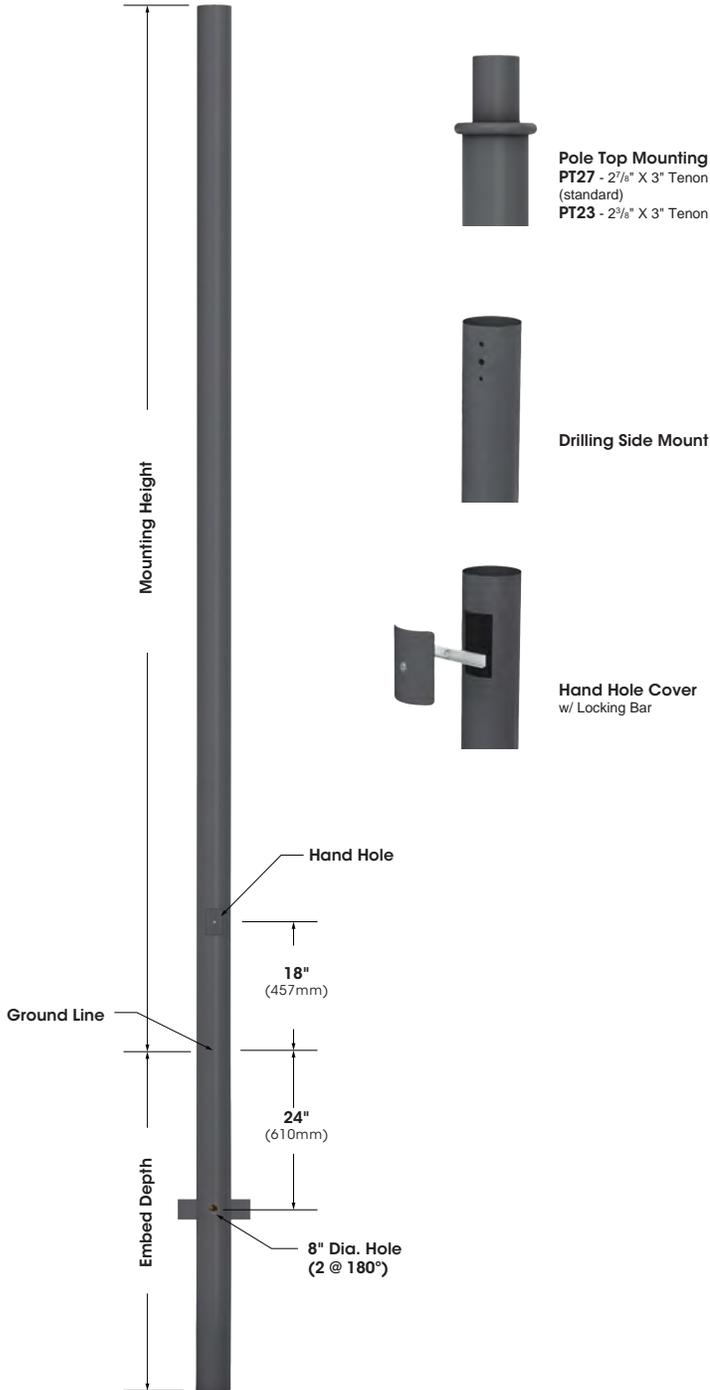
Standard pole top mount - PT27, fabricated from 2.5" (2.875" O.D.) aluminum pipe - tenon options for PT276 and PT23 pole tops please see Mounting column. For other pole top configurations please consult factory.

Hand Hole Cover

Rectangular 3" x 5" stamped heavy gauge aluminum material Hand Hole Cover, 2 1/4" x 4 1/4" access opening. Sealed door is secured by a formed aluminum bar and a stainless steel, tamper proof screw.

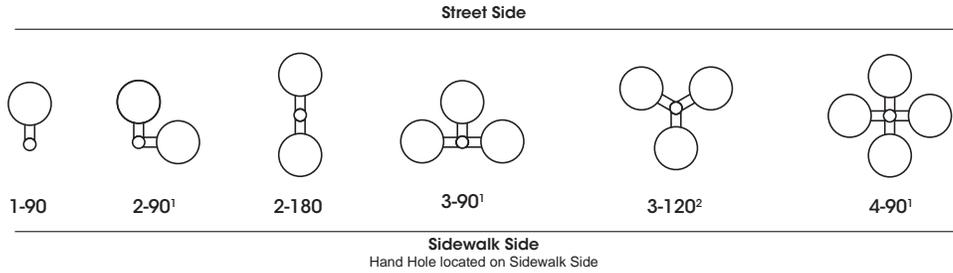
Finish

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.



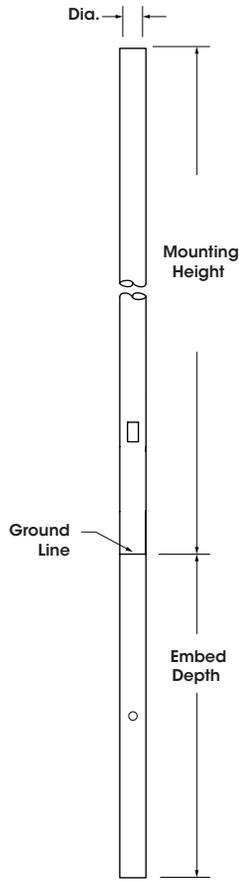
| Pole Model | Pole Dia. | Mounting Height | Embed Depth |
|------------|-----------|-----------------|-------------|
| ERNTA4 | 4" | 8' - 14' | 3' |
| ERNTA5 | 5" | 10' - 20' | 4' |
| ERNTA6 | 6" | 20' - 25' | 4' |
| ERNTA658 | 6 5/8" | 20' - 25' | 5' |

DRILLING SIDE MOUNT



Notes
 1- Poles smaller than 3" Dia. at top, or Non Linear Drilling requires PT27 and T490 Adaptor. (Adaptor is rotatable)
 2- Poles smaller than 3" Dia. at top, or Non Linear Drilling requires PT27 and T3120 Adaptor. (Adaptor is rotatable)
 [Drilling template must be provided by customer]

BOLT CIRCLE



| Catalog Number | POLE | | | | | | | | |
|-----------------|-----------------|------|--------------|------|-------|-------|------------------------|--------------|-------------|
| | Mounting Height | | Bottom - Top | | | | Wall Thickness (In/Ga) | Weight (Lbs) | Embed Depth |
| | Ft | M | In | | Cm | | | | |
| ERNTA 84-125 | 8 | 2.44 | 4.00 | 4.00 | 10.16 | 10.16 | 0.125 | 23 | 3' |
| ERNTA 104-125 | 10 | 3.05 | 4.00 | 4.00 | 10.16 | 10.16 | 0.125 | 27 | 3' |
| ERNTA 124-125 | 12 | 3.66 | 4.00 | 4.00 | 10.16 | 10.16 | 0.125 | 30 | 3' |
| ERNTA 144-125 | 14 | 4.27 | 4.00 | 4.00 | 10.16 | 10.16 | 0.125 | 34 | 3' |
| ERNTA 105-125 | 10 | 3.05 | 5.00 | 5.00 | 12.70 | 12.70 | 0.125 | 32 | 4' |
| ERNTA 125-125 | 12 | 3.66 | 5.00 | 5.00 | 12.70 | 12.70 | 0.125 | 36 | 4' |
| ERNTA 145-125 | 14 | 4.27 | 5.00 | 5.00 | 12.70 | 12.70 | 0.125 | 41 | 4' |
| ERNTA 145-188 | 14 | 4.27 | 5.00 | 5.00 | 12.70 | 12.70 | 0.188 | 56 | 4' |
| ERNTA 165-125 | 16 | 4.88 | 5.00 | 5.00 | 12.70 | 12.70 | 0.125 | 45 | 4' |
| ERNTA 165-188 | 16 | 4.88 | 5.00 | 5.00 | 12.70 | 12.70 | 0.188 | 63 | 4' |
| ERNTA 185-125 | 18 | 5.49 | 5.00 | 5.00 | 12.70 | 12.70 | 0.125 | 50 | 4' |
| ERNTA 185-188 | 18 | 5.49 | 5.00 | 5.00 | 12.70 | 12.70 | 0.188 | 69 | 4' |
| ERNTA 205-188 | 20 | 6.10 | 5.00 | 5.00 | 12.70 | 12.70 | 0.188 | 76 | 4' |
| ERNTA 206-188 | 20 | 6.10 | 6.00 | 6.00 | 15.24 | 15.24 | 0.188 | 95 | 4' |
| ERNTA 206-250 | 20 | 6.10 | 6.00 | 6.00 | 15.24 | 15.24 | 0.250 | 121 | 4' |
| ERNTA 256-188 | 25 | 7.62 | 6.00 | 6.00 | 15.24 | 15.24 | 0.188 | 115 | 4' |
| ERNTA 256-250 | 25 | 7.62 | 6.00 | 6.00 | 15.24 | 15.24 | 0.250 | 147 | 4' |
| ERNTA 20658-250 | 20 | 6.10 | 6.63 | 6.63 | 16.83 | 16.83 | 0.250 | 135 | 5' |
| ERNTA 25658-250 | 25 | 7.62 | 6.63 | 6.63 | 16.83 | 16.83 | 0.250 | 165 | 5' |

ORDERING INFORMATION

Spec/Order Example: ERNTA145-188/2-90/ANZ

| Pole Model Number | | | Mounting | Finish | Options |
|-------------------------|-------------|----------------|--|--|--|
| | Pole Height | Wall Thickness | | | |
| 4" Pole Dia. | | | | | |
| ERNTA 84 - 125 | 8' | .125 | Tenon Mount PT27 27/8" X 3" Tenon (Standard) PT23 23/8" X 3" Tenon PT276 27/8" X 6" Tenon Other Tenon Mt ____ | Standard Smooth Finish 9005-S Black 9003-S White 7004-S Grey 8019-S Dark Bronze 6005-S Green | VBDS-M2 Vibration Dampener 2nd Mode Field Install |
| ERNTA 104 - 125 | 10' | .125 | | | |
| ERNTA 124 - 125 | 12' | .125 | | | |
| ERNTA 144 - 125 | 14' | .125 | | | |
| 5" Pole Dia. | | | | | |
| ERNTA 105 - 125 | 10' | .125 | Drill Mount 1-90  2-180  2-90  3-90  4-90  3-120  3-120 requires PT27 and T3120 Adapter 2-90, 3-90, 4-90 requires PT27 and T490 Adapter [Drilling template must be provided by customer] | Premium Finishes Custom Specify RAL# _____ ANZ Anodized | Receptacle GFI G.F.I. Receptacle w/ Cover GFI-IU G.F.I. Receptacle w/ In-Use Cover [Specify GFI location: Height and Direction] See Location Diagram below T3120 3 Way Adapter T490 4 Way Adapter [Drilling template must be provided by customer] |
| ERNTA 125 - 125 | 12' | .125 | | | |
| ERNTA 145 - 125 | 14' | .125 | | | |
| ERNTA 145 - 188 | 14' | .188 | | | |
| ERNTA 165 - 125 | 16' | .125 | | | |
| ERNTA 165 - 188 | 16' | .188 | | | |
| ERNTA 185 - 125 | 18' | .125 | | | |
| ERNTA 185 - 188 | 18' | .188 | | | |
| ERNTA 205 - 188 | 20' | .188 | | | |
| 6" Pole Dia. | | | | | |
| ERNTA 206 - 188 | 20' | .188 | [Drilling template must be provided by customer] | Custom Specify RAL# _____ ANZ Anodized | Coupling CPLN12 1/2" Coupling CPLN34 3/4" Coupling CPLN114 1 1/4" Coupling CPLN112 1 1/2" Coupling CPLN2 2" Coupling [Specify Coupling location: Height and Direction] See Location Diagram below |
| ERNTA 206 - 250 | 20' | .250 | | | |
| ERNTA 256 - 188 | 25' | .188 | | | |
| ERNTA 256 - 250 | 25' | .250 | | | |
| 6 5/8" Pole Dia. | | | | | |
| ERNTA 20658 - 250 | 20' | .250 | [Drilling template must be provided by customer] | Custom Specify RAL# _____ ANZ Anodized | Nipple NPLE12 1/2" Nipple NPLE34 3/4" Nipple NPLE114 1 1/4" Nipple NPLE112 1 1/2" Nipple NPLE2 2" Nipple [Specify Coupling location: Height and Direction] See Location Diagram below |
| ERNTA 25658 - 250 | 25' | .250 | | | |

Other heights available
Please consult factory

ACCESSORIES



GFI
Duplex GFI
w/ Cover



GFI-IU
Duplex GFI
w/ In-Use Cover



T3120
3 Way Adapter



T490
4 Way Adapter

[Drilling template must be provided by customer]



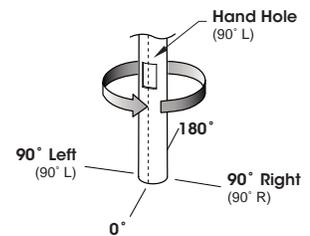
CPLN
1/2", 3/4", 1 1/4", 1 1/2",
or 2" Coupling



NPLE
1/2", 3/4", 1 1/4", 1 1/2",
or 2" Nipple

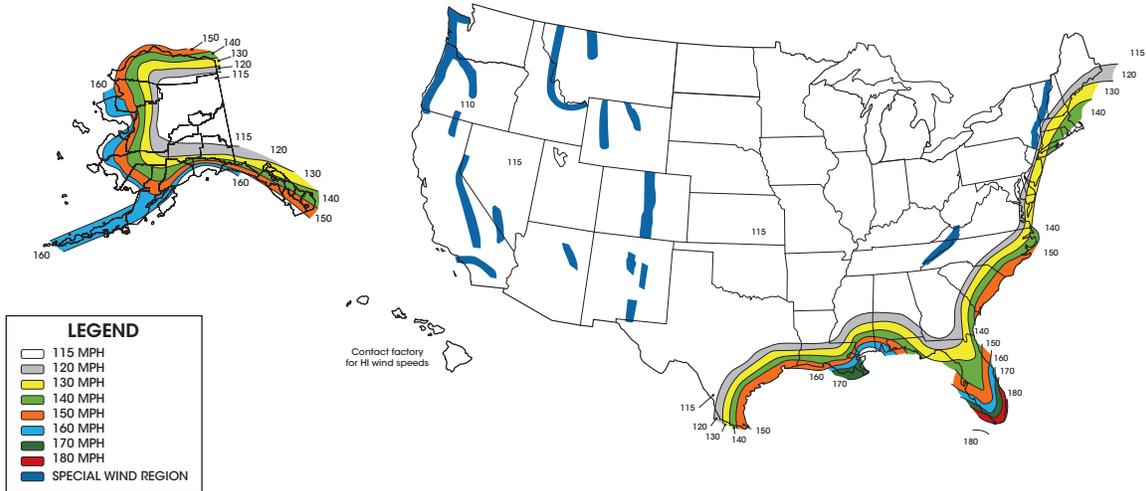
Location Diagram

Please use this diagram to indicate placement location



Refer to the Accessories Section for other options

WIND MAP



EPA INFORMATION (ft²) (per 2020 FL Building Code)

| Cat. No. | Weight Capacity Maximum (Lbs.) | 100 MPH | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
|-----------------|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ERNTA 84 - 125 | 294 - 112* | 15.0 | 12.0 | 10.9 | 9.8 | 8.4 | 6.8 | 5.8 | 5.0 | 4.6 | 3.8 |
| ERNTA 104 - 125 | 203 - 66.5* | 11.5 | 9.0 | 8.4 | 7.6 | 6.2 | 4.8 | 4.0 | 3.4 | 3.2 | 2.6 |
| ERNTA 124 - 125 | 150.5 - 60* | 8.9 | 6.8 | 6.4 | 5.4 | 4.2 | 3.6 | 2.6 | 2.2 | 2.0 | 1.6 |
| ERNTA 144 - 125 | 105 - 60* | 6.8 | 5.4 | 4.4 | 3.8 | 2.8 | 2.4 | 1.8 | 1.2 | 1.0 | 0.8 |
| ERNTA 105 - 125 | 300 - 147* | 19.0 | 15.4 | 14.0 | 12.5 | 10.5 | 9.3 | 7.7 | 6.7 | 6.1 | 5.1 |
| ERNTA 125 - 125 | 262.5 - 105* | 15.0 | 12.0 | 10.7 | 10.0 | 8.0 | 7.1 | 6.0 | 5.3 | 4.7 | 4.1 |
| ERNTA 145 - 125 | 203 - 73.5* | 12.1 | 9.7 | 8.3 | 7.7 | 6.1 | 5.1 | 4.3 | 3.5 | 3.2 | 2.7 |
| ERNTA 145 - 188 | 300 - 133* | 19.0 | 15.5 | 14.0 | 12.3 | 10.3 | 8.7 | 7.5 | 6.7 | 5.9 | 4.9 |
| ERNTA 165 - 125 | 136.5 - 60* | 8.9 | 6.7 | 6.1 | 5.1 | 4.5 | 3.7 | 2.9 | 2.7 | 2.3 | 1.7 |
| ERNTA 165 - 188 | 241.5 - 94.5* | 14.7 | 11.5 | 10.5 | 9.5 | 7.9 | 6.7 | 5.7 | 4.9 | 4.3 | 3.5 |
| ERNTA 185 - 125 | 84 - 60* | 7.0 | 5.3 | 4.5 | 3.9 | 2.9 | 2.3 | 2.1 | 1.5 | 1.3 | 1.0 |
| ERNTA 185 - 188 | 189 - 66.5* | 12.0 | 9.5 | 8.1 | 7.5 | 5.9 | 4.9 | 4.1 | 3.5 | 3.3 | 2.5 |
| ERNTA 205 - 188 | 140 - 60* | 10.1 | 7.4 | 6.5 | 5.5 | 4.7 | 3.9 | 3.3 | 2.7 | 2.3 | 1.7 |
| ERNTA 206 - 188 | 287 - 108.5* | 16.0 | 13.1 | 12.0 | 10.7 | 8.9 | 7.5 | 6.3 | 5.7 | 4.7 | 4.1 |
| ERNTA 206 - 250 | 300 - 147* | 20.0 | 18.7 | 16.7 | 15.5 | 12.7 | 10.7 | 9.5 | 7.9 | 6.9 | 6.3 |
| ERNTA 256 - 188 | 136.5 - 60* | 9.1 | 7.1 | 6.3 | 5.9 | 4.5 | 3.9 | 3.3 | 2.7 | 2.3 | 1.9 |
| ERNTA 256 - 250 | 220.5 - 84* | 13.7 | 10.9 | 10.1 | 9.1 | 7.5 | 6.3 | 5.3 | 4.5 | 3.9 | 3.1 |

* Please use the following to obtain the proper weight capacity: The maximum fixture weight equals 60 lbs. or the product of 35 lbs. x the EPA value, whichever is greater, not to exceed 300 lbs. Example, EPA = 2.2 , weight = 35 lbs. x 2.2 EPA = 77 lbs.

Notes

- Specifier is responsible for correct pole selection. For proper pole choice, the specifier must consider the total EPA of fixtures, banners, arms, and any other accessories attached to pole assembly.
- U.S. Architectural discourages the attachment of unauthorized accessories; any such attachments will void the manufacturer's warranty.
- ALL EPAs are calculated for ground installations. For installations on bridges, buildings or other structures, the specifier must contact the factory or consult with a structural Engineer
- Unpredictable aerodynamic forces such as wind-induced vibrations are not included in wind velocity ratings or EPA ratings.
- Wind gust factors are considered in developing all EPA chart data.

To mitigate 2nd Mode (Aeolian) Vibration please read the following Recommendations:

- We do not recommend the installation of poles without a fixture; such installations have been known to fail due to destructive 2nd mode pole vibration.
- For pole installations with a combined (fixtures, banners, flags, etc.) of less than 0.75 ft² EPA and 20 feet or taller, it is strongly recommended that you install a vibration dampener.

Please consult with your structural engineer.