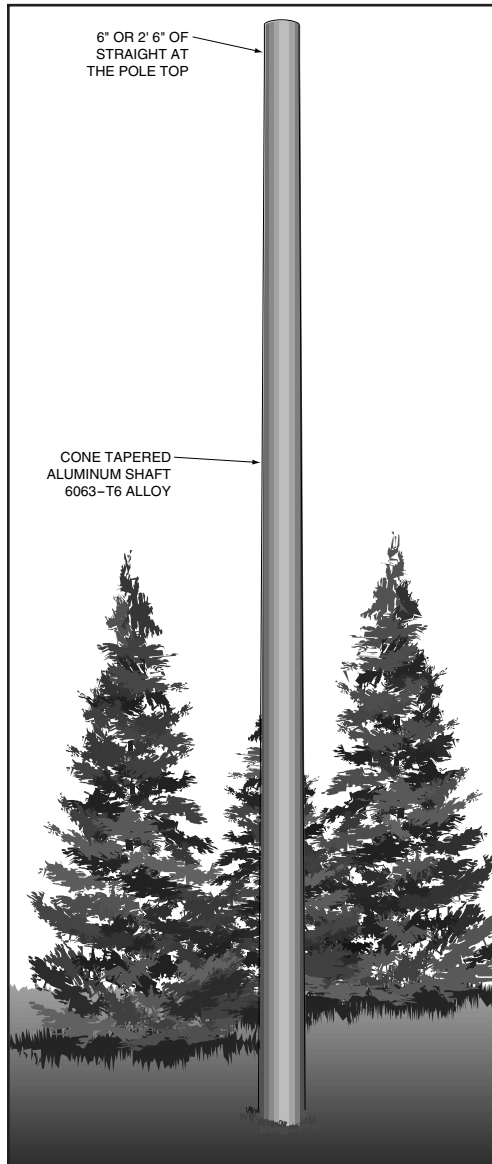


# 8' TO 30' ROUND TAPERED EMBEDDED (DIRECT BURIAL) POLES



- 8' to 30' mounting heights.
- Tenons, brackets, and arms designed for single or multiple luminaire mounting.
- Luminaires may be mounted on tenons, brackets or shaft may be drilled to manufacturer's mounting specifications.

## SPECIFICATIONS

All aluminum alloys shall comply with metallurgical and mechanical properties set forth in the Aluminum Association Standards.

**Shaft:** The shaft shall be spun tapered from all new seamless 6063 alloy aluminum tubing and shall be heat treated to produce a T6 temper. Each shaft shall have a minimum of 6" straight length at the top. Top straight section serves as a slipfitter for a luminaire or for the hub of the appropriate Valmont bracket or tapered arm. Alternatively, the straight section may be drilled for mounting luminaires. The shaft shall be cone tapered to the base diameter. All Valmont shafts shall be polished with fine grain aluminum oxide cloths, resulting in a high quality circumferential satin brushed finish. After finishing, each pole shall be wrapped for protection in shipment.

**Direct Embedment:** Unless otherwise specified, the length of the embedded section of a 4" diameter shaft shall be 3', 5" and 6" shall be 4', 7" and 8" shall be 5'. A 1-1/2" diameter grommetted wire inlet hole located 1' 6" below grade shall be included. The embedded section of the pole shall be coated inside and outside with zinc rich paint.

**Special Finishes:** Natural anodize, duranodic, or painted finishes may be specified as an addition to the satin brushed finish, if required. All aluminum parts and accessories shall receive a finish similar to that specified.

**Ground Lug:** Each pole shall include a 5/16"-18 tapped provision for ground connector.

**Handhole:** Available as an option.

**Anti-Rotation Device:** Available as an option.

## CATALOG LOGIC

| Feet and Inches | Top Diameter | Base Diameter | Wall Thickness | Shape of Shaft | Base or Mounting | Fixture Mounting | Finishes | Options |
|-----------------|--------------|---------------|----------------|----------------|------------------|------------------|----------|---------|
|                 |              |               |                | T              | E                |                  |          |         |

| Feet & Inches* | Diameter*                | Wall Thickness*               | Shape of Shaft    | Base or Mounting | Fixture Mounting   | Finishes  | Options  |
|----------------|--------------------------|-------------------------------|-------------------|------------------|--|---|--|
| 0708 - 8'      | TOP DIAMETER IN INCHES   | THICKNESS IN 32NDS OF AN INCH | T - Tapered Round | E - Embedded     | D1 - 1@90°<br>D2 - 2@180°<br>D3 - 3@120°<br>D4 - 4@90°<br>D5 - 2@90°<br>D6 - 3@90°<br>P2 - 2-3/8" x 4 Tenon<br>P9 - Other Tenon (Please Specify) | POLYESTER POWDER<br>DBL - Black<br>DCG - Charcoal Gray<br>DMB - Med Bronze<br>DSB - Steel Blue<br>DTG - Dark Green<br>SC - Special Color (Please Specify)<br>ANODIZED<br>204 - Clear Natural<br>312 - Med Bronze*<br>335 - Black* | DBR - Bright Red<br>DDB - Dark Bronze<br>DNA - Natural Alum<br>DSS - Sandstone<br>DWH - White<br>311 - Light Bronze*<br>313 - Dark Bronze*<br>* Duranodic Anodize<br>BRUSHED<br>SBF - Satin Brushed Finish |
| 0908 - 10'     | 30 - 3"                  | 4 - 4/32" or 0.125" Wall      |                   |                  |  |   |  |
| 1108 - 12'     | 40 - 4"                  | 5 - 5/32" or 0.156" Wall      |                   |                  |  |   |  |
| 1308 - 14'     | 45 - 4-1/2"              | 6 - 6/32" or 0.188" Wall      |                   |                  |  |   |  |
| 1508 - 16'     | BASE DIAMETER* IN INCHES |                               |                   |                  |  |   |  |
| 1708 - 18'     | 40 - 4"                  |                               |                   |                  |  |   |  |
| 1908 - 20'     | 50 - 5"                  |                               |                   |                  |  |   |  |
| 2408 - 25'     | 60 - 6"                  |                               |                   |                  |  |   |  |
| 2908 - 30'     | 70 - 7"<br>80 - 8"       |                               |                   |                  |  |   |  |

\* For available Base Diameter, Wall Thickness and Length Combinations, see Dimensional Load Data Table that follows.

Customer Approval:

signature

date

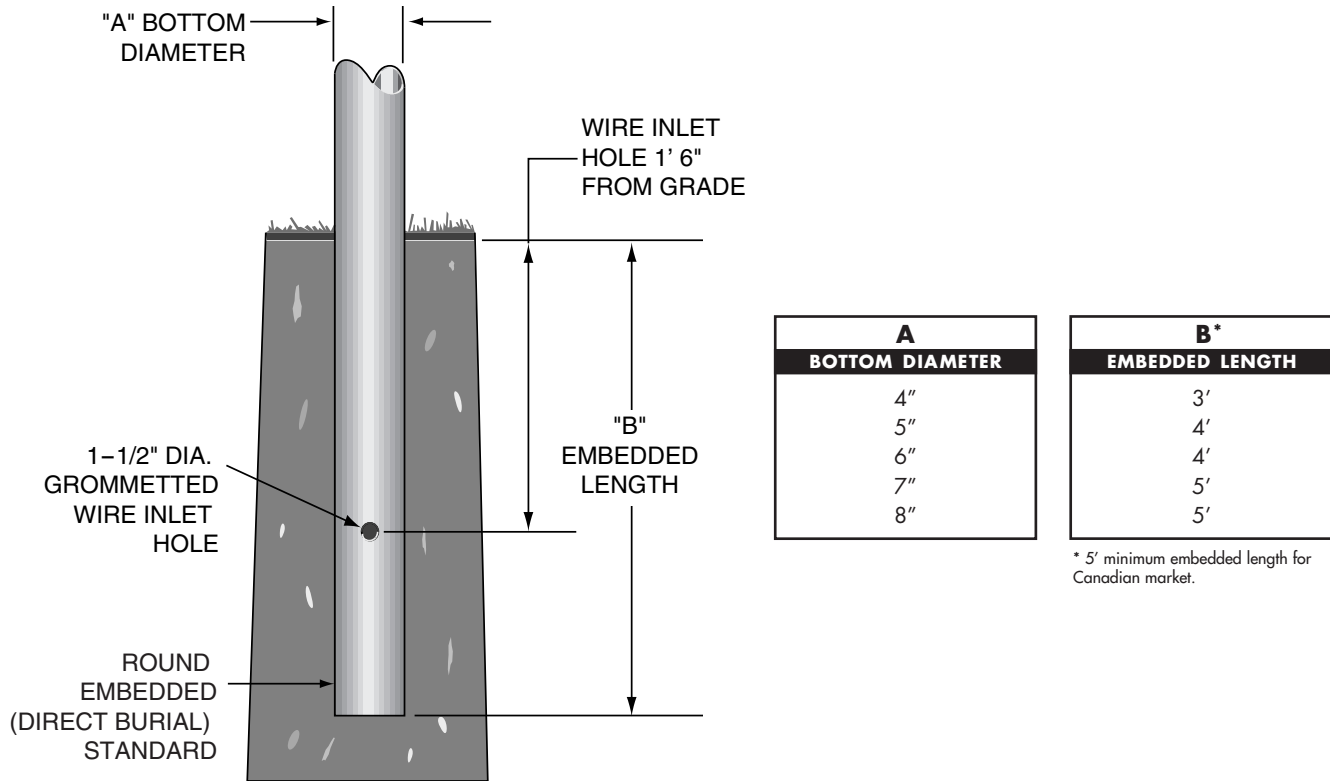
Job Name: \_\_\_\_\_ Quote: \_\_\_\_\_

Client Name: \_\_\_\_\_

Created By: \_\_\_\_\_ Date: \_\_\_\_\_

# 8' TO 30' ROUND TAPERED EMBEDDED (DIRECT BURIAL) POLES

## ANCHOR BASE AND BOLT DETAIL



## DIMENSIONAL AND LOAD DATA

| TYPICAL WEIGHT AND ALLOWABLE SIZE OF LUMINAIRES* |                                 |   |        |        |         |         | DIMENSIONS OF POLES |                      |      |      |       |                |
|--|---------------------------------|---|--------|--------|---------|---------|---------------------|----------------------|------|------|-------|----------------|
| NOMINAL MOUNTING HEIGHT                          | TYPICAL LUMINAIRE WEIGHT (LBS.) | EFFECTIVE PROJECTED AREA IN SQUARE FEET AT: |        |        |         |         | EXPOSED HEIGHT      | OVERALL SHAFT LENGTH | TOP  | BASE | WALL  | MODEL NUMBER** |
|  |                                 | 70 MPH                                      | 80 MPH | 90 MPH | 100 MPH | 110 MPH |                     |                      |      |      |       |                |
| 8'   | 75                              | 19.1  | 14.4   | 11.1   | 8.8     | 7.1     | 7'8"                | 10'8"                | 3"   | 4"   | .125" | 0708-30404TE   |
| 10'  | 75                              | 14.3  | 10.6   | 8.1    | 6.3     | 5.0     | 9'8"                | 12'8"                | 3"   | 4"   | .125" | 0908-30404TE   |
| 12'  | 75                              | 11.0  | 8.0    | 6.0    | 4.5     | 3.5     | 11'8"               | 14'8"                | 3"   | 4"   | .125" | 1108-30404TE   |
| 12'  | 75                              | 18.5  | 13.8   | 10.5   | 8.3     | 6.6     | 11'8"               | 15'8"                | 3"   | 5"   | .125" | 1108-30504TE   |
| 14'  | 75                              | 8.5   | 6.0    | 4.4    | 3.2     | 2.4     | 13'8"               | 16'8"                | 3"   | 4"   | .125" | 1308-30404TE   |
| 14'  | 75                              | 14.8  | 10.8   | 8.2    | 6.3     | 5.0     | 13'8"               | 17'8"                | 3"   | 5"   | .125" | 1308-30504TE   |
| 16'  | 75                              | 7.1   | 5.0    | 3.5    | 2.4     | 1.7     | 15'8"               | 18'8"                | 3"   | 4"   | .125" | 1508-30404TE   |
| 16'  | 75                              | 12.0  | 8.6    | 6.4    | 4.8     | 3.8     | 15'8"               | 19'8"                | 3"   | 5"   | .125" | 1508-30504TE   |
| 16'  | 75                              | 15.3  | 11.1   | 8.4    | 6.5     | 5.1     | 15'8"               | 19'8"                | 3"   | 5"   | .156" | 1508-30505TE   |
| 18'  | 75                              | 9.7   | 6.7    | 4.9    | 3.6     | 2.7     | 17'8"               | 21'8"                | 3"   | 5"   | .125" | 1708-30504TE   |
| 18'  | 150                             | 12.2  | 8.7    | 6.4    | 4.9     | 3.8     | 17'8"               | 21'8"                | 3"   | 5"   | .156" | 1708-30505TE   |
| 18'  | 150                             | 19.1  | 14.1   | 10.8   | 8.5     | 6.9     | 17'8"               | 21'8"                | 4"   | 6"   | .156" | 1708-40605TE   |
| 20'  | 75                              | 8.2   | 5.5    | 3.8    | 2.6     | 1.9     | 19'8"               | 23'8"                | 3"   | 5"   | .125" | 1908-30504TE   |
| 20'  | 75                              | 10.4  | 7.2    | 5.1    | 3.7     | 2.8     | 19'8"               | 23'8"                | 3"   | 5"   | .156" | 1908-30505TE   |
| 25'  | 150                             | 10.5  | 7.1    | 5.1    | 3.8     | 2.9     | 24'8"               | 28'8"                | 4"   | 6"   | .156" | 2408-40605TE   |
| 25'  | 150                             | 13.5  | 9.4    | 6.9    | 5.3     | 4.2     | 24'8"               | 28'8"                | 4"   | 6"   | .188" | 2408-40606TE   |
| 30'  | 150                             | 11.1  | 7.5    | 5.3    | 4.0     | 3.0     | 29'8"               | 34'8"                | 4"   | 7"   | .156" | 2908-40705TE   |
| 30'  | 150                             | 16.7  | 12.0   | 9.1    | 7.0     | 5.5     | 29'8"               | 34'8"                | 4.5" | 8"   | .156" | 2908-45805TE   |

\* EPA calculations are based on a 1.3 Gust Factor. Variations from sizes listed above, available upon inquiry at the factory. Satisfactory performance of lighting poles is dependent upon the pole being properly attached to a supporting foundation of adequate design. Valmont does not design or offer recommendations for foundations.  
\*\* Model number does not include mounting options or finish designation.

SPC7073 08/07 www.valmontstructures.com carries the most current spec. information and supersedes these guidelines.