

# Index for Concrete Poles

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## **Rainbow Distributors USA, INC.**

Traffic Distributors

**204 N. Elm Avenue**

**Sanford, Florida 32771**

**Tel 407-330-6363 • 407-330-6360 Fax**

# Concrete Poles

## General Information



Dura-Stress provides strong, durable light poles to the Department of Transportation, municipalities, power companies, and contractors.

Used for light, power and ped poles, these are designed to be suitable for the particular climate requirements of this part of the country.

Dura-Stress light poles, lighting our community's highways and neighborhoods.

Type I and II are primarily used for street and area lighting. Provisions are made for underground wiring on both types. Type I has a 1 inch tube in the center of the pole and Type II has a cored hole through the center, as shown on drawings in this catalog.

Type III poles are primarily designed for use in power distribution lines and can be used on parking lot lighting also.

Type IV, V, VI, and VII poles are primarily designed for use in supporting traffic signals. Their great resistance to deflection and cracking under heavy loads makes guying unnecessary.

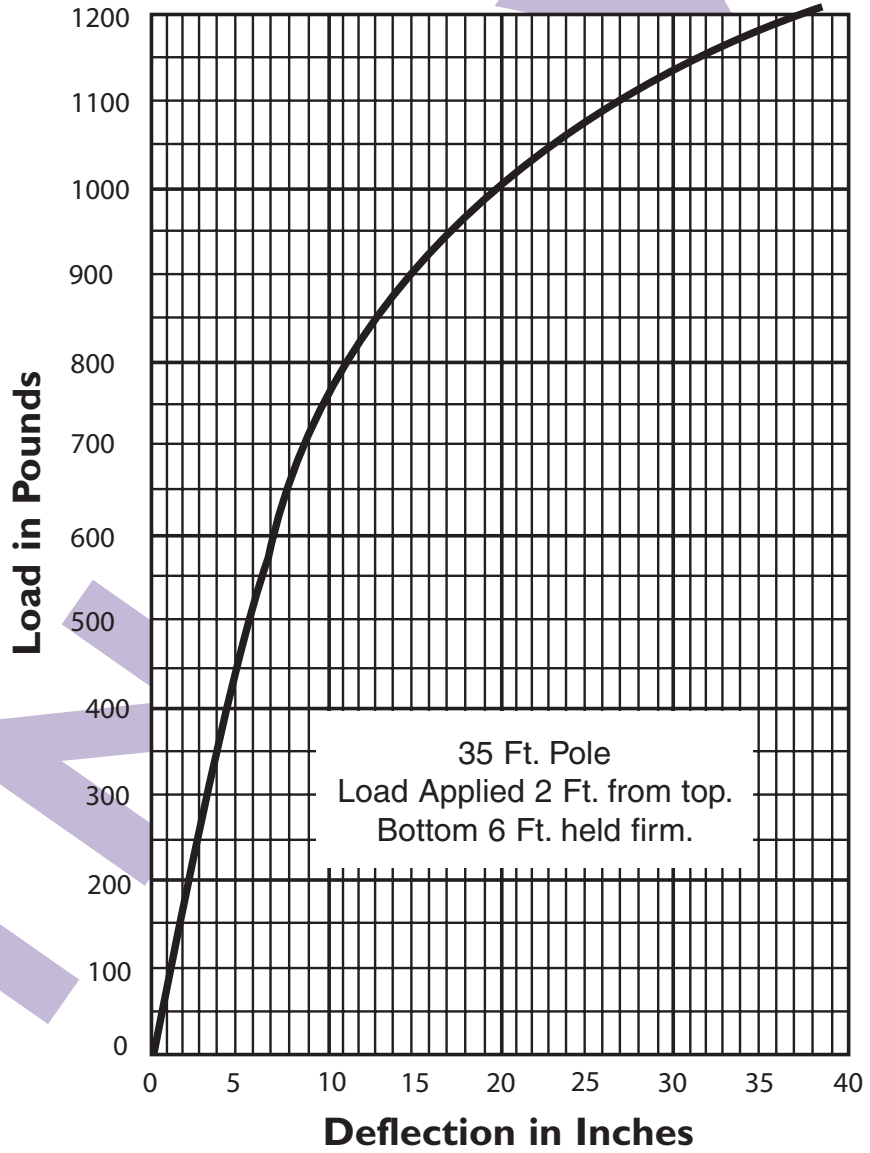
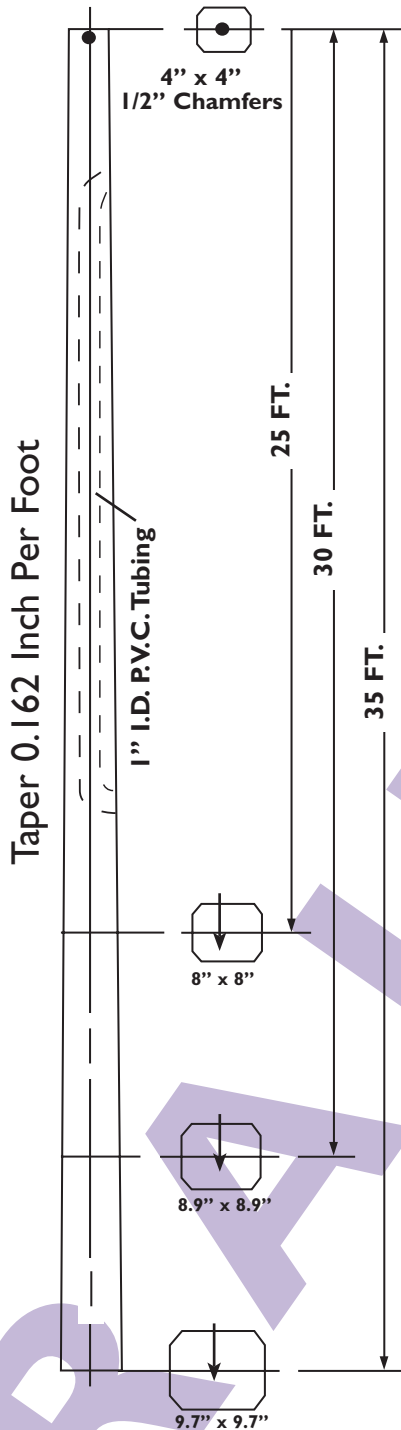
We solicit inquiries for distribution and transmission line poles to meet any required specifications. Designs and quotations will gladly be submitted upon receipt of requirements. The physical characteristics of each type of pole are covered in succeeding pages.



# Concrete Poles

Type I Pole

Deflection Curve

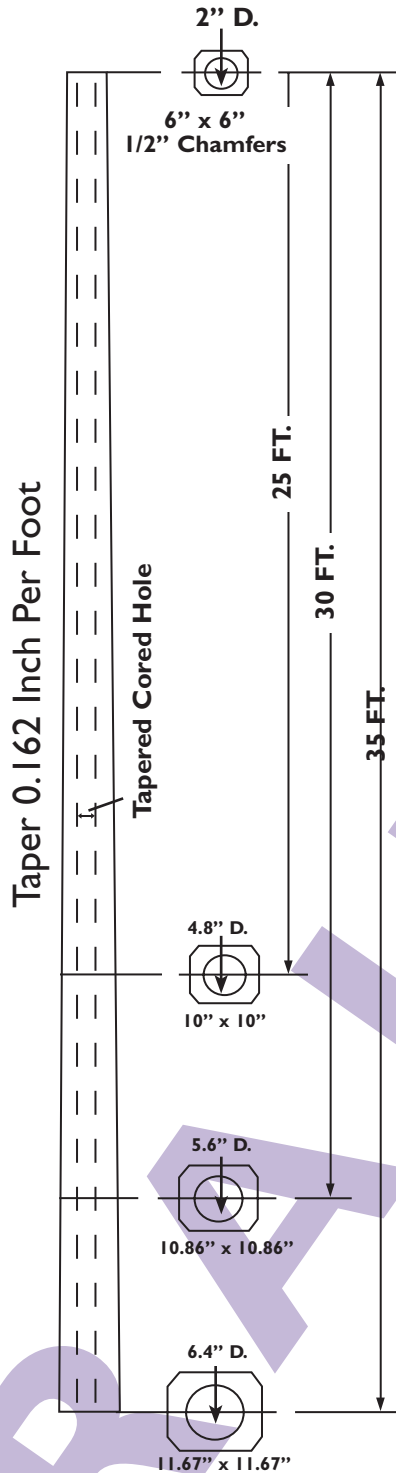


| Weights     |           |
|-------------|-----------|
| 25 ft. Pole | 1040 lbs. |
| 30 ft. Pole | 1470 lbs. |
| 35 ft. Pole | 2000 lbs. |

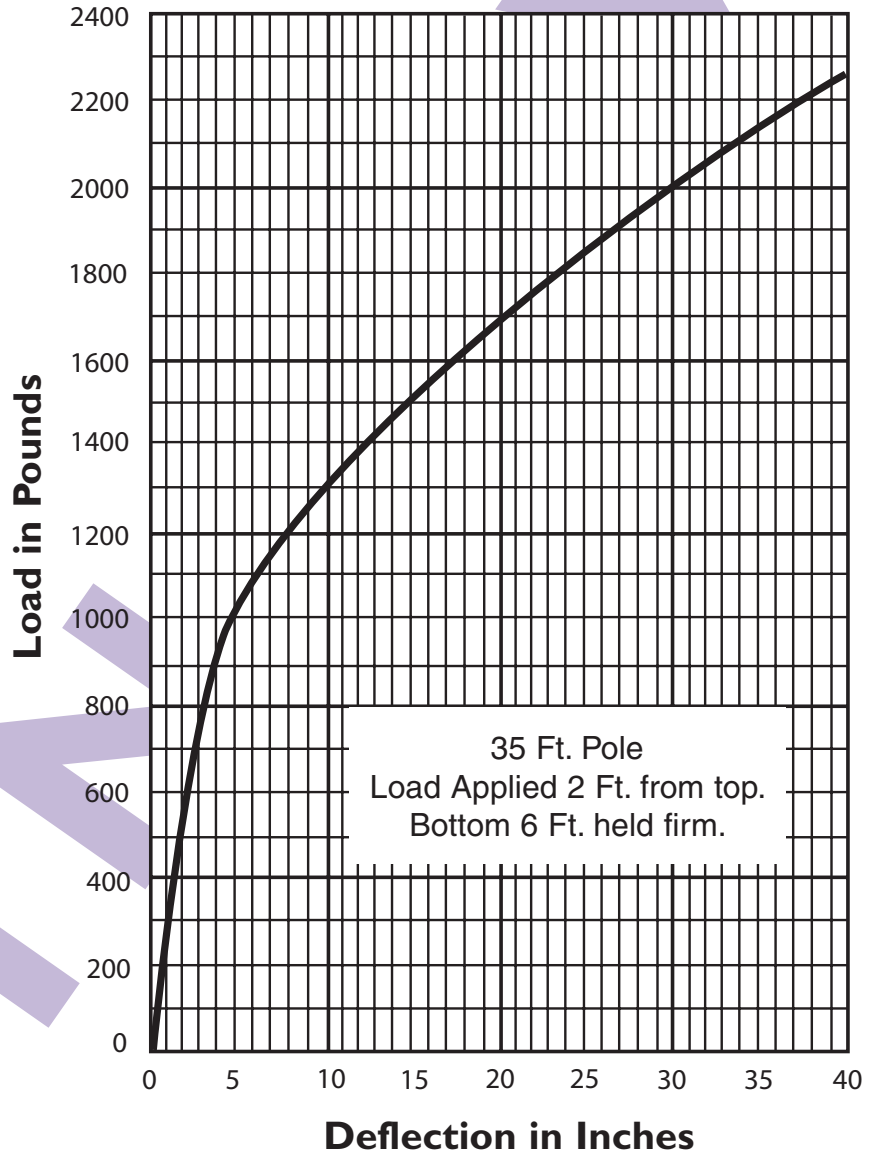
Minimum Ultimate Load: 1200 lbs.  
 Minimum Initial Cracking Load: 600 lbs.  
 (loads applied 2 ft. from top of pole with lower 6 ft. of pole held firm)

# Concrete Poles

Type II Pole



Deflection Curve



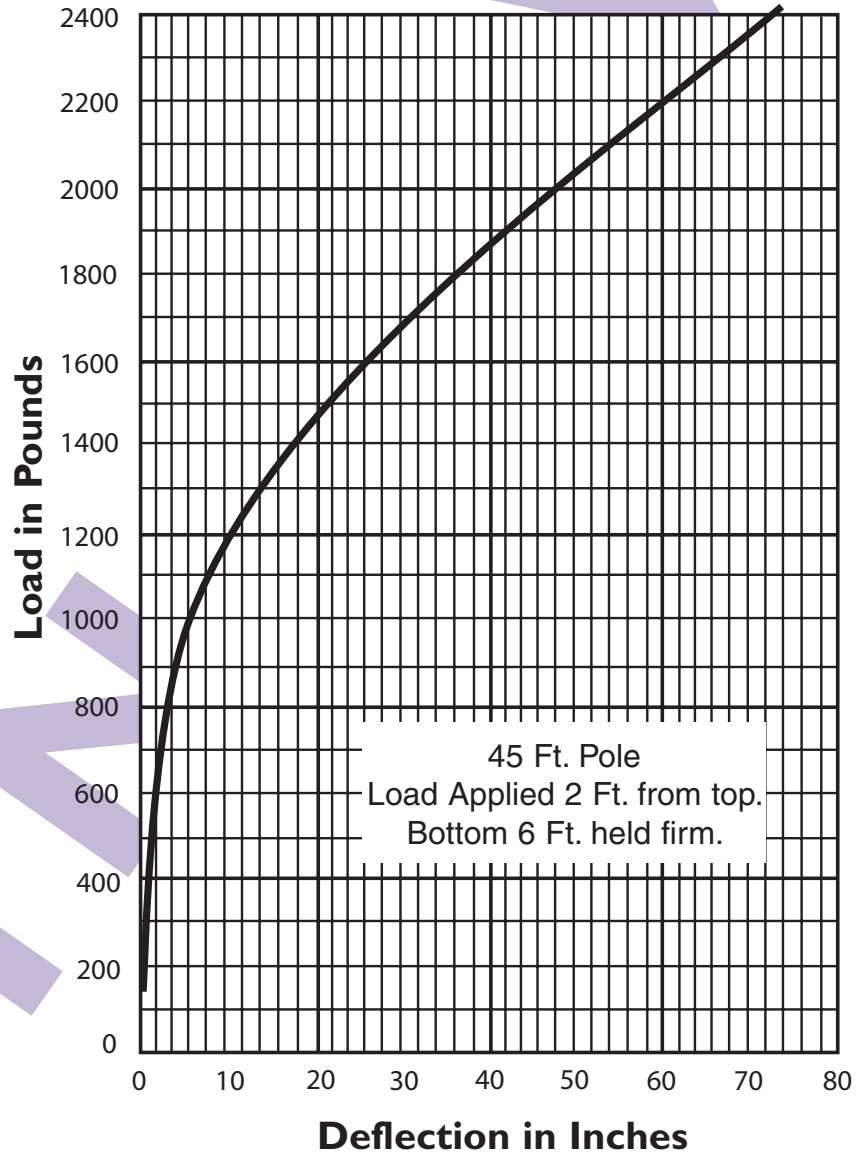
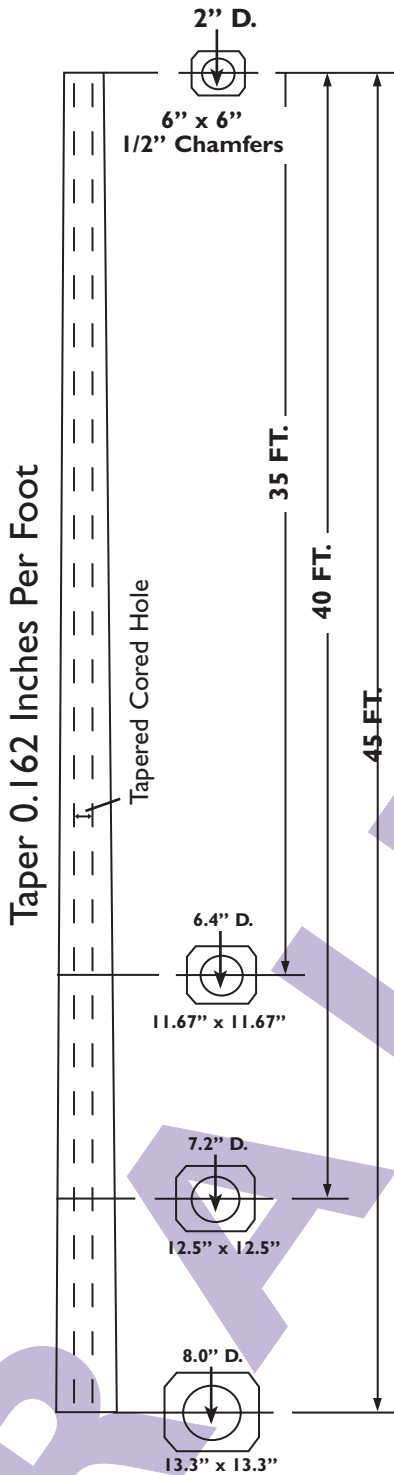
| Weights     |           |
|-------------|-----------|
| 25 ft. Pole | 1510 lbs. |
| 30 ft. Pole | 1980 lbs. |
| 35 ft. Pole | 2535 lbs. |

Minimum Ultimate Load: 2400 lbs.  
 Minimum Initial Cracking Load: 600 lbs.  
 (loads applied 2 ft. from top of pole with lower 6 ft. of pole held firm)

# Concrete Poles

Type III Pole

Deflection Curve

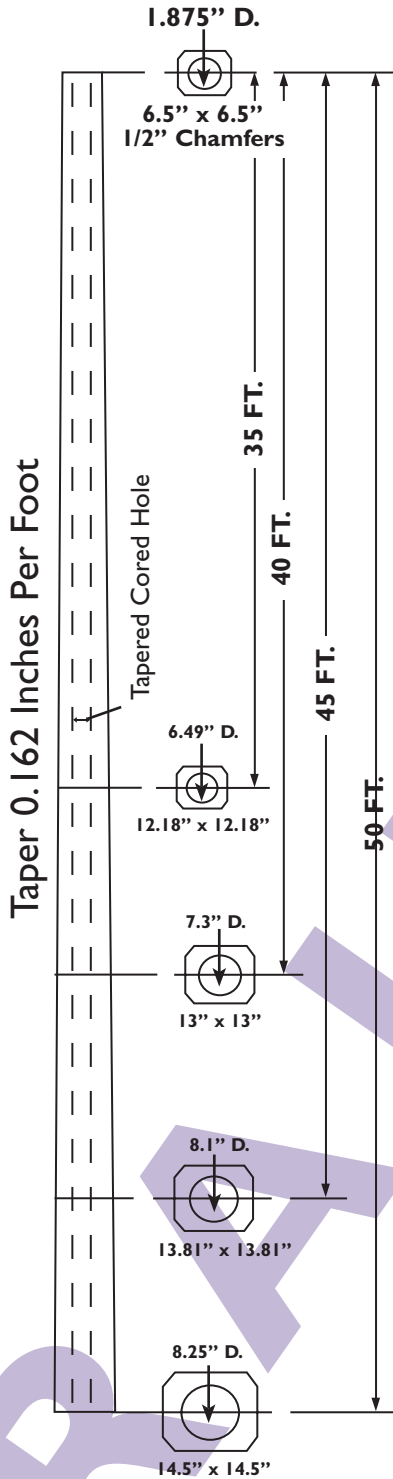


| Weights     |           |
|-------------|-----------|
| 35 ft. Pole | 2535 lbs. |
| 40 ft. Pole | 3160 lbs. |
| 45 ft. Pole | 3920 lbs. |

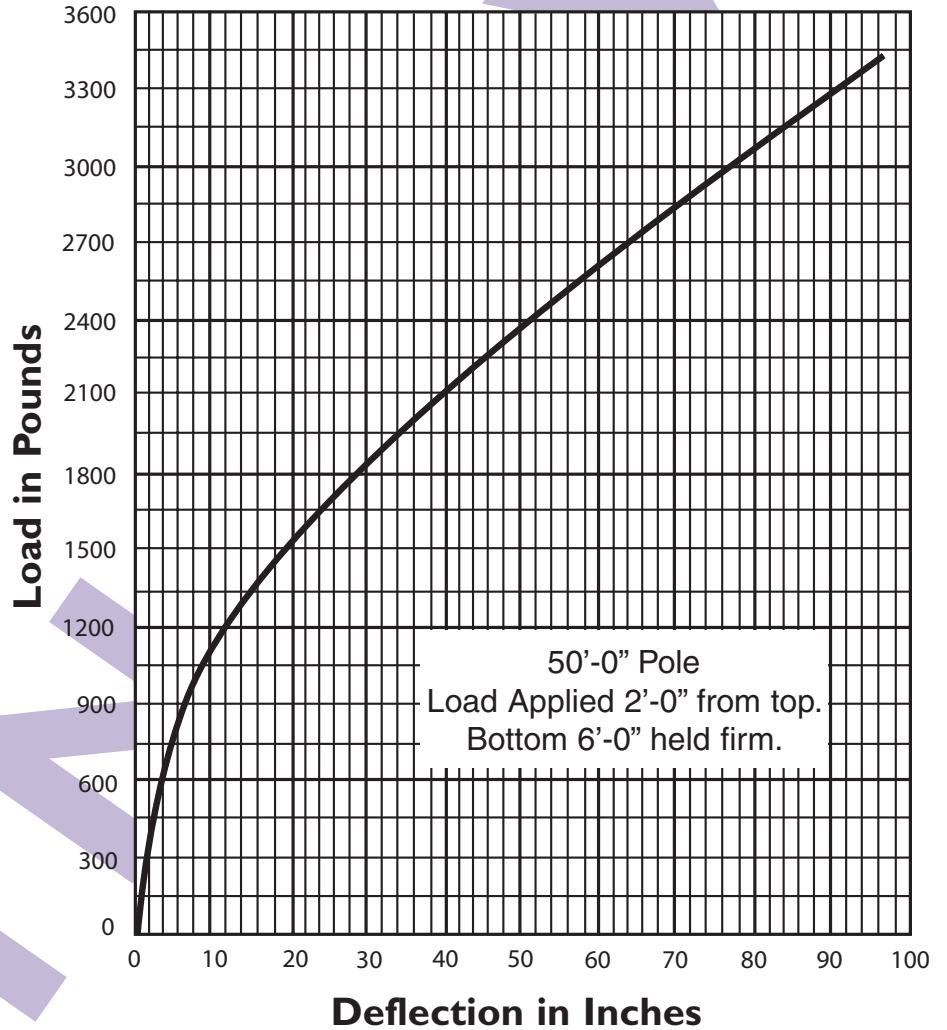
Minimum Ultimate Load: 2600 lbs.  
 Minimum Initial Cracking Load: 1000 lbs.  
 (loads applied 2 ft. from top of pole with lower 6 ft. of pole held firm)

# Concrete Poles

Type III A Pole



Deflection Curve



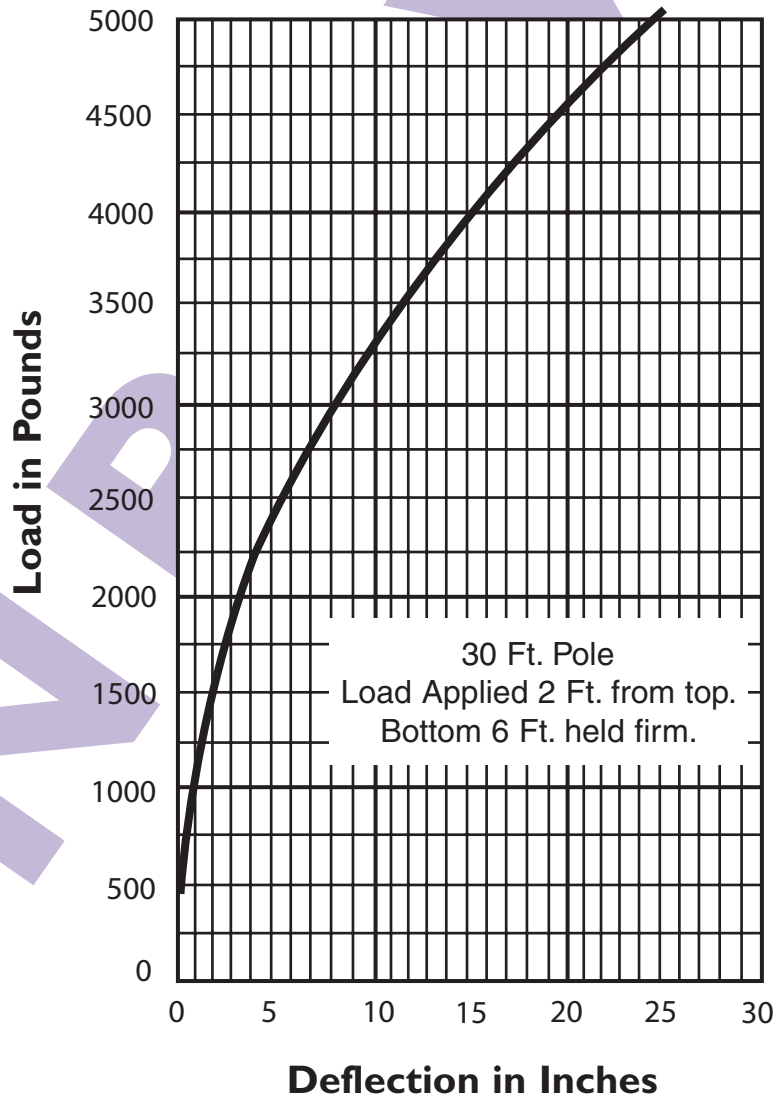
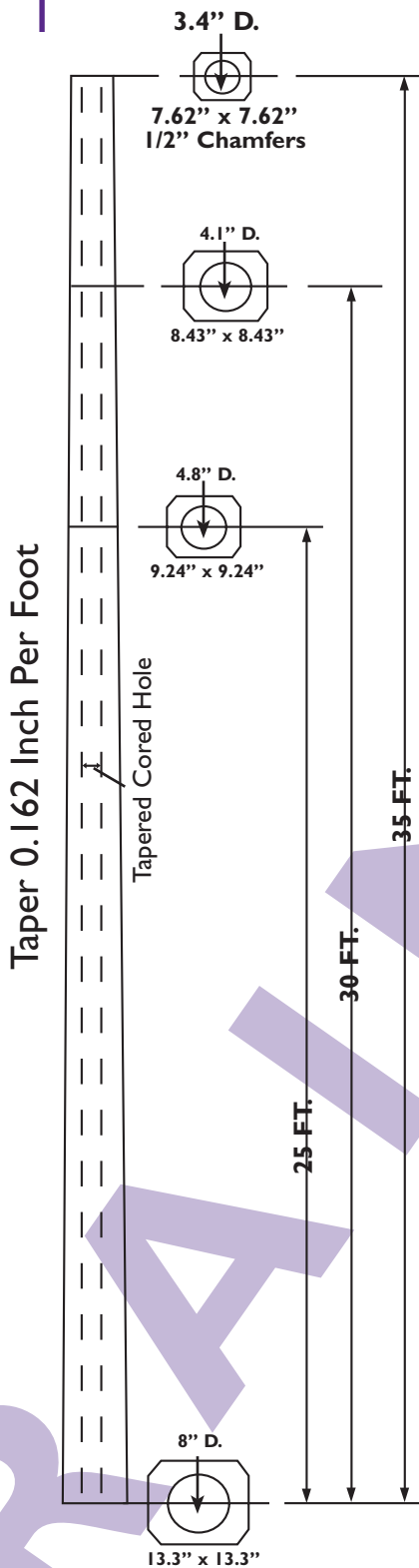
| Weights     |           |
|-------------|-----------|
| 35 ft. Pole | 2826 lbs. |
| 40 ft. Pole | 3510 lbs. |
| 45 ft. Pole | 4230 lbs. |
| 50 ft. Pole | 5025 lbs. |

Minimum Ultimate Load: 3400 lbs.  
Minimum Initial Cracking Load: 1200 lbs.  
(loads applied 2 ft. from top of pole with lower 6 ft. of pole held firm)

# Concrete Poles

Type IV Pole

Deflection Curve



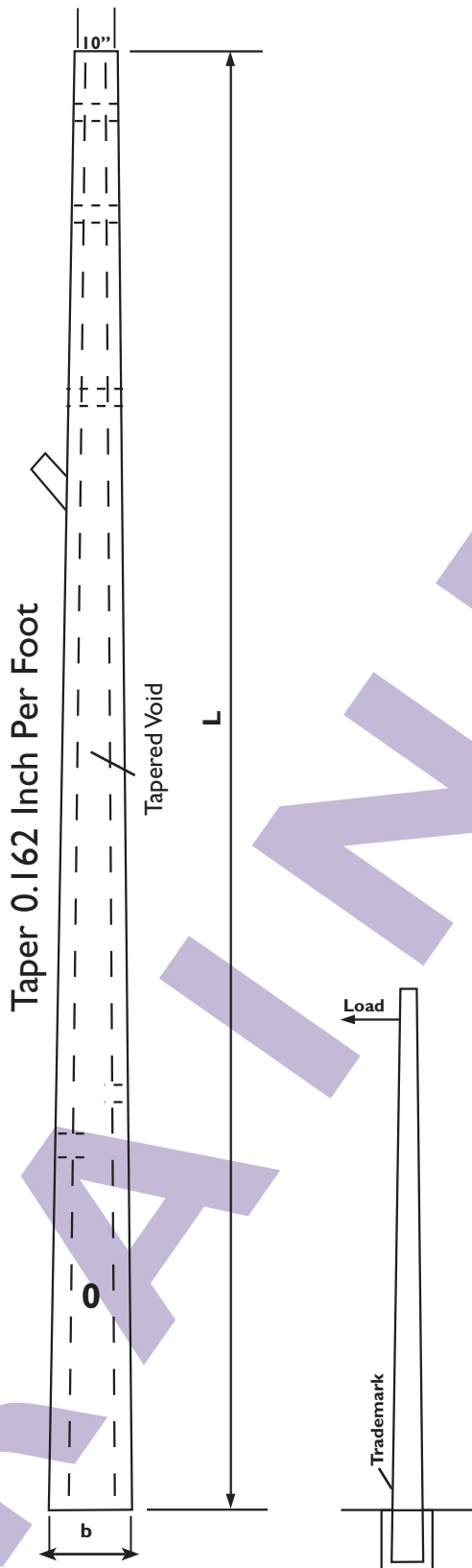
| Weights     |           |
|-------------|-----------|
| 25 ft. Pole | 2820 lbs. |
| 30 ft. Pole | 3170 lbs. |
| 35 ft. Pole | 3460 lbs. |

Minimum Ultimate Load: 3500 lbs.  
 Minimum Initial Cracking Load: 2000 lbs.  
 (loads applied 2 ft. from top of pole with lower 6 ft. of pole held firm)

# Concrete Poles

## Type V Pole

Minimum Ultimate Load: 6000 lbs.  
 Minimum Initial Cracking Load: 3500 lbs.  
 (loads applied 8 in. from top of pole with lower 6 ft. of pole held firm)



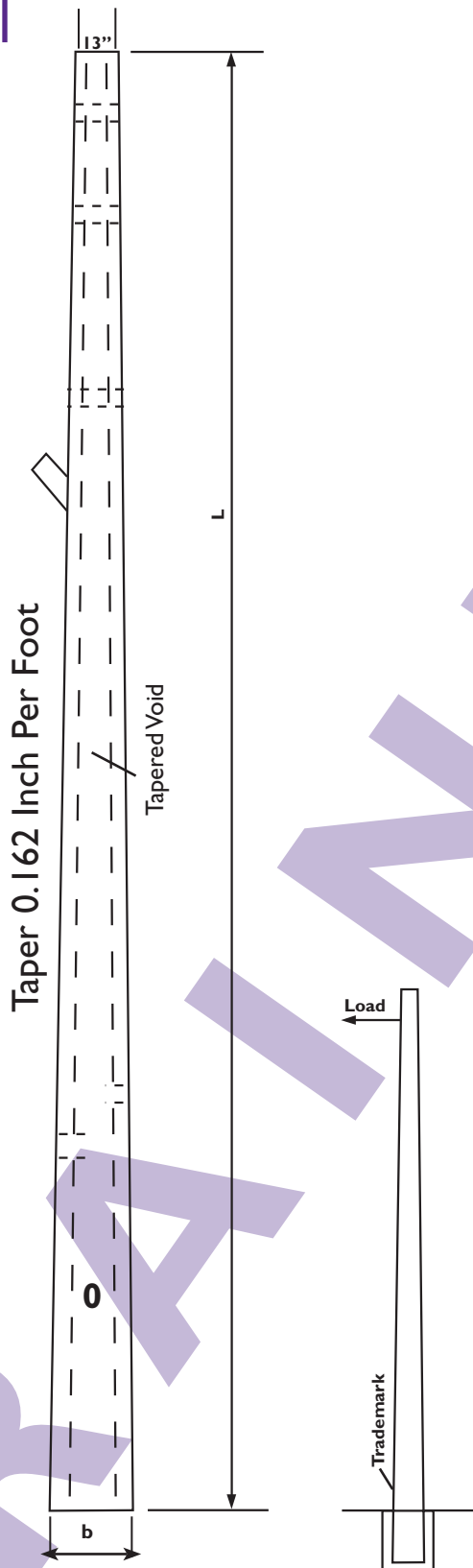
| Dimensions and Weights |            |           |
|------------------------|------------|-----------|
| L                      | B          | Weight    |
| 32 ft.                 | 15 3/8 in. | 4460 lbs. |
| 33 ft.                 | 15 1/2 in. | 4650 lbs. |
| 34 ft.                 | 15 5/8 in. | 4830 lbs. |
| 35 ft.                 | 15 7/8 in. | 5040 lbs. |
| 36 ft.                 | 16 in.     | 5240 lbs. |
| 37 ft.                 | 16 1/8 in. | 5440 lbs. |
| 38 ft.                 | 16 3/8 in. | 5660 lbs. |
| 39 ft.                 | 16 1/2 in. | 5860 lbs. |
| 40 ft.                 | 16 5/8 in. | 6080 lbs. |
| 41 ft.                 | 16 7/8 in. | 6300 lbs. |
| 42 ft.                 | 17 in.     | 6668 lbs. |
| 43 ft.                 | 17 1/8 in. | 6900 lbs. |
| 44 ft.                 | 17 3/8 in. | 7162 lbs. |
| 45 ft.                 | 17 1/2 in. | 7420 lbs. |

**Note:** Traffic Signal poles must be installed with trademark toward traffic signal.

# Concrete Poles

## Type VI Pole

Minimum Ultimate Load: 7500 lbs.  
 Minimum Initial Cracking Load: 5000 lbs.  
 (loads applied 8 in. from top of pole with lower 6 ft. of pole held firm)



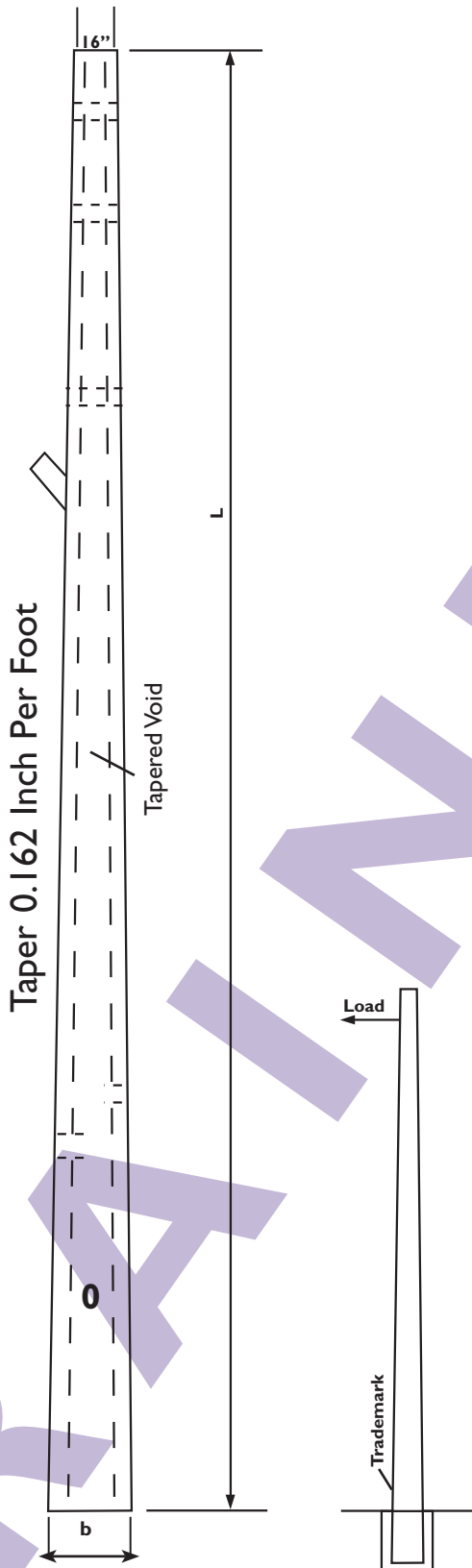
| Dimensions and Weights |              |             |
|------------------------|--------------|-------------|
| L                      | B            | Weight      |
| 32 ft.                 | 18 5/16 in.  | 6600 lbs.   |
| 33 ft.                 | 18 1/2 in.   | 6870 lbs.   |
| 34 ft.                 | 18 11/16 in. | 7160 lbs.   |
| 35 ft.                 | 18 13/16 in. | 7440 lbs.   |
| 36 ft.                 | 19 in.       | 7750 lbs.   |
| 37 ft.                 | 19 3/16 in.  | 8040 lbs.   |
| 38 ft.                 | 19 3/8 in.   | 8350 lbs.   |
| 39 ft.                 | 19 1/2 in.   | 8650 lbs.   |
| 40 ft.                 | 19 11/16 in. | 8950 lbs.   |
| 41 ft.                 | 19 13/16 in. | 9250 lbs.   |
| 42 ft.                 | 20 in.       | 9560 lbs.   |
| 43 ft.                 | 20 3/16 in.  | 9900 lbs.   |
| 44 ft.                 | 20 5/16 in.  | 10200 lbs.  |
| 45 ft.                 | 20 1/2 in.   | 10550 lbs.  |
| 46 ft.                 | 20 11/16 in. | 10930 lbs.  |
| 47 ft.                 | 20 13/16 in. | 11269 lbs.  |
| 48 ft.                 | 21 in.       | 11617 lbs.  |
| 49 ft.                 | 21 3/16 in.  | 11972 lbs.  |
| 50 ft.                 | 21 3/8 in.   | 12,335 lbs. |

**Note:** Traffic Signal poles must be installed with trademark toward traffic signal.

# Concrete Poles

## Type VII Pole

Minimum Ultimate Load: 10000 lbs.  
 Minimum Initial Cracking Load: 7000 lbs.  
 (loads applied 8 in. from top of pole with lower 6 ft. of pole held firm)



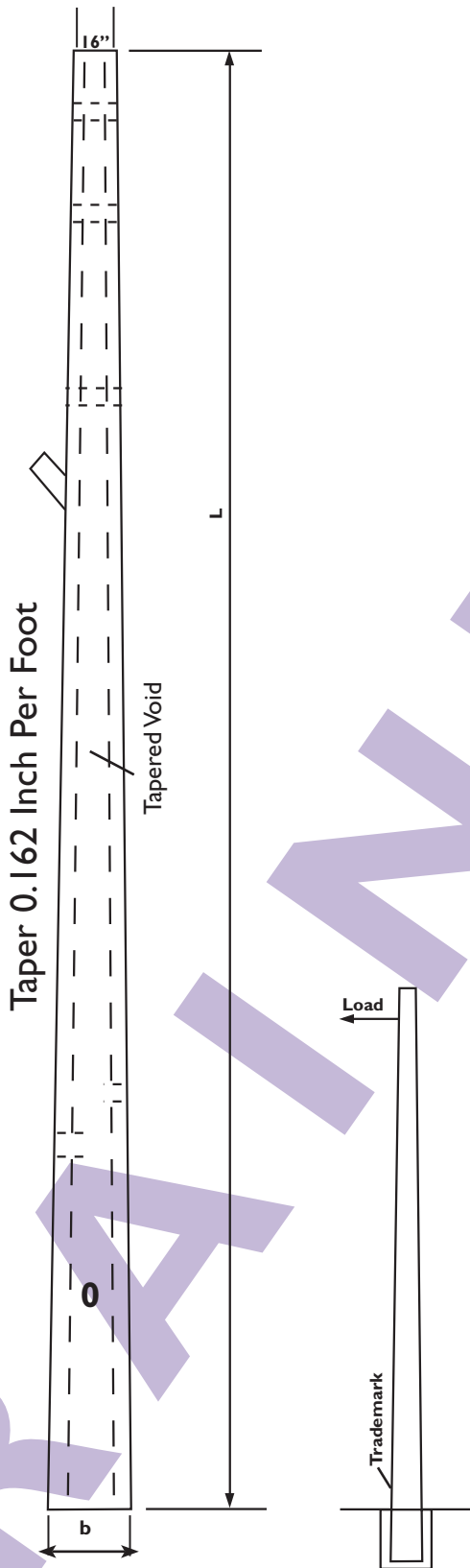
| Dimensions and Weights |             |            |
|------------------------|-------------|------------|
| L                      | B           | Weight     |
| 32 ft.                 | 21 3/8 in.  | 9728 lbs.  |
| 33 ft.                 | 21 1/2 in.  | 10110 lbs. |
| 34 ft.                 | 21 5/8 in.  | 10500 lbs. |
| 35 ft.                 | 21 7/8 in.  | 10890 lbs. |
| 36 ft.                 | 22 in.      | 11295 lbs. |
| 37 ft.                 | 22 1/8 in.  | 11715 lbs. |
| 38 ft.                 | 22 3/8 in.  | 12135 lbs. |
| 39 ft.                 | 22 1/2 in.  | 12570 lbs. |
| 40 ft.                 | 22 5/8 in.  | 13005 lbs. |
| 41 ft.                 | 22 7/8 in.  | 13455 lbs. |
| 42 ft.                 | 23 in.      | 13890 lbs. |
| 43 ft.                 | 23 1/8 in.  | 14325 lbs. |
| 44 ft.                 | 23 3/8 in.  | 14775 lbs. |
| 45 ft.                 | 23 1/2 in.  | 15240 lbs. |
| 46 ft.                 | 23 5/8 in.  | 15705 lbs. |
| 47 ft.                 | 23 7/8 in.  | 16185 lbs. |
| 48 ft.                 | 24 in.      | 17115 lbs. |
| 49 ft.                 | 24 3/16 in. | 17610 lbs. |
| 50 ft.                 | 24 3/8 in.  | 18114 lbs. |

**Note:** Traffic Signal poles must be installed with trademark toward traffic signal.

# Concrete Poles

## Type VIII Pole

Minimum Ultimate Load: 10000 lbs.  
 Minimum Initial Cracking Load: 7000 lbs.  
 (loads applied 8 in. from top of pole  
 with lower 8 ft. of pole held firm)



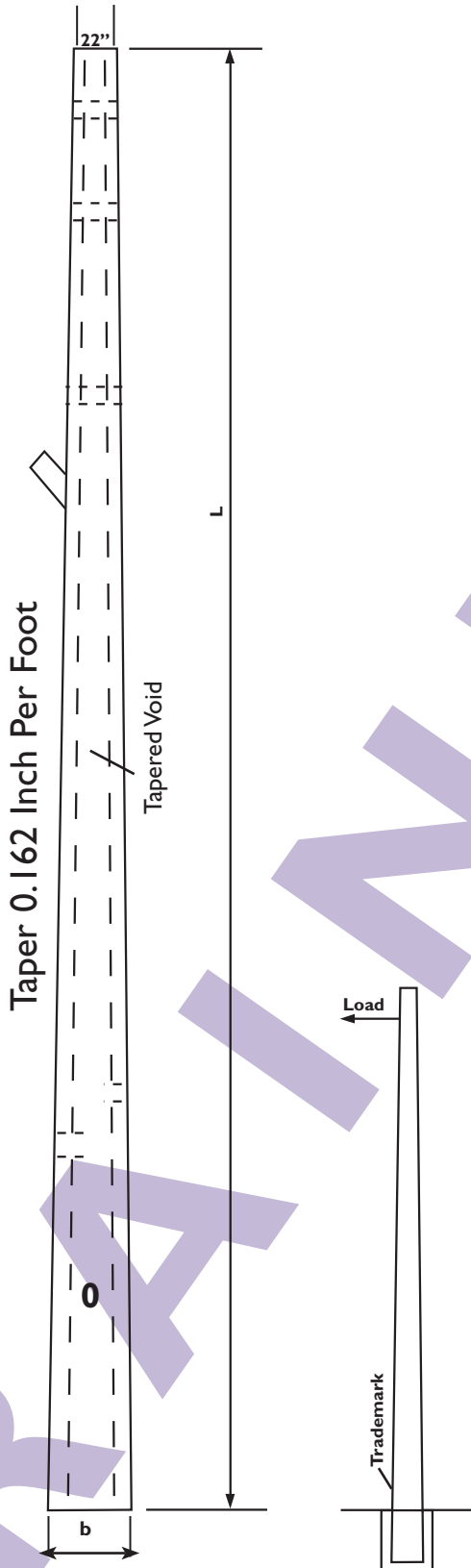
| Dimensions and Weights |             |            |
|------------------------|-------------|------------|
| L                      | B           | Weight     |
| 32 ft.                 | 21 3/8 in.  | 9728 lbs.  |
| 33 ft.                 | 21 1/2 in.  | 10110 lbs. |
| 34 ft.                 | 21 5/8 in.  | 10500 lbs. |
| 35 ft.                 | 21 7/8 in.  | 10890 lbs. |
| 36 ft.                 | 22 in.      | 11295 lbs. |
| 37 ft.                 | 22 1/8 in.  | 11715 lbs. |
| 38 ft.                 | 22 3/8 in.  | 12135 lbs. |
| 39 ft.                 | 22 1/2 in.  | 12570 lbs. |
| 40 ft.                 | 22 5/8 in.  | 13005 lbs. |
| 41 ft.                 | 22 7/8 in.  | 13455 lbs. |
| 42 ft.                 | 23 in.      | 13890 lbs. |
| 43 ft.                 | 23 1/8 in.  | 14325 lbs. |
| 44 ft.                 | 23 3/8 in.  | 14775 lbs. |
| 45 ft.                 | 23 1/2 in.  | 15240 lbs. |
| 46 ft.                 | 23 5/8 in.  | 15705 lbs. |
| 47 ft.                 | 23 7/8 in.  | 16185 lbs. |
| 48 ft.                 | 24 in.      | 17115 lbs. |
| 49 ft.                 | 24 3/16 in. | 17610 lbs. |
| 50 ft.                 | 24 3/8 in.  | 18114 lbs. |

**Note:** Traffic Signal poles must be installed with trademark toward traffic signal.

# Concrete Poles

## Type IX Pole

Minimum Ultimate Load: 10000 lbs.  
 Minimum Initial Cracking Load: 7000 lbs.  
 (loads applied 8 in. from top of pole with lower 8 ft. of pole held firm)



| Dimensions and Weights |              |            |
|------------------------|--------------|------------|
| L                      | B            | Weight     |
| 48 ft.                 | 30 1/64 in.  | 27500 lbs. |
| 49 ft.                 | 30 3/16 in.  | 28000 lbs. |
| 50 ft.                 | 30 11/32 in. | 28500 lbs. |
| 51 ft.                 | 30 33/64 in. | 28750 lbs. |
| 52 ft.                 | 30 11/16 in. | 29000 lbs. |
| 53 ft.                 | 30 27/32 in. | 29250 lbs. |
| 54 ft.                 | 31 1/64 in.  | 29500 lbs. |
| 55 ft.                 | 31 3/16 in.  | 29750 lbs. |
| 56 ft.                 | 31 23/64 in. | 30000 lbs. |
| 57 ft.                 | 31 33/64 in. | 30250 lbs. |
| 58 ft.                 | 31 11/16 in. | 30500 lbs. |
| 59 ft.                 | 31 7/8 in.   | 30750 lbs. |
| 60 ft.                 | 32 1/64 in.  | 31000 lbs. |

**Note:** Traffic Signal poles must be installed with trademark toward traffic signal.