

How to bend concrete

5-foot linear deflection at cracking load



40-foot nominal overall length class II prestressed concrete distribution pole with a 7 1/2-inch top diameter. The test report is available upon request.

The picture at the left is not an illusion. It shows Ameron's standard destructive test procedure to determine the ultimate loading and sectional properties of a prestressed spun concrete pole. The amazing part of the test is that when the force is released, the pole returns to the original position-unharmed and ready for another load. Ameron's prestressing force is applied equally to the prestressing wires with a total value ranging from 8 through 200 metric tons of pull. We start with a minimum of four wires and can increase the strength with more and/or larger wires to meet customer requests for higher loading criteria. We spin at speeds designed to place over 39 times the force of gravity on the concrete. This process creates a hollow raceway and guarantees proper concrete compaction and high density for the maximum weight. The spinning process also eliminates air and water pockets, reducing porosity for protection against freeze/thaw effects. The end result is a prestressed spun concrete pole with a life expectancy of over 80 years. Ameron prestressed spun concrete poles are designed to take tough environmental punishment. Ameron designs in conjunction with the latest American Association of Street and Highway Transportation Officials (AASHTO) guidelines and test per the American Society of Testing and Materials standards ASTM C-1809, as well as any other designs that may apply. Ameron's prestressed and spun concrete poles are protected with our unparalleled 10-year warranty with a re-installation rebate for poles that fail due to a manufacturing defect in the first five years.

Prestressed concrete lighting poles: the optimum in strength and long-lasting beauty.