



DURATEL INSTALLATION IN MISSOURI: COMPOSITE UTILITY POLES WITH REINFORCED CORE BASES INSTALLED IN A ROCKY ENVIRONMENT

The Project: A Missouri investor-owned utility sought to install 40-foot distribution poles on 12kV circuits with four conductors per pole along a remote granite ridge.

The Challenge: The site was located in the midst of uneven, rocky terrain and was nearly inaccessible to heavy equipment. The harsh environmental conditions and isolated location made blasting holes to bury traditional wood utility poles prohibitive. Accessing and performing routine maintenance on wood poles were also issues for engineers.

The Solution: The engineers for this project decided to specify 14 Duratel composite distribution poles. The unique requirements demanded a product that could stand up to the elements, was easy to transport and install and would require the least amount of maintenance. Duratel poles met all structural and loading requirements as existing wood poles, with the added benefit of weighing two-thirds less. In addition, Duratel designed a reinforced core anchor base plate to fit inside its hollow pole design. These plates attached simply and swiftly to the rock face using standard anchor bolts - a solution impossible with wood poles. Duratel composites are engineered with an extremely high strength-to-weight ratio, non-conductive, resistant to birds, bugs, pests and corrosion. Duratel poles also contain fire retardant, multiple UV inhibitors and stabilization elements to prolong lifespan and prevent damage from exposure to sunlight.



Chicago-based Duratel, LLC is a leading innovator in the manufacture of pultruded, fiber reinforced composite utility poles for use by electric utilities, renewable energy companies, marine contractors, and green builders. For more information, visit: duratelgreen.com.