

# Lightweight Utility Poles

Lightweight utility poles designed for efficient and reliable power distribution. Optimized for strength and minimal weight, facilitating easier installation and reduced transportation costs.



## ADDITIONAL IMAGES



## Product Overview

### Ultra-High Performance Concrete (UHPC) Poles

These advanced utility poles utilize ultra-high performance concrete technology to deliver a superior alternative to traditional wood, steel, and standard concrete structures. By combining high strength with significantly reduced weight, these poles lower transportation and installation costs while offering exceptional durability against corrosion, salt, and harsh weather. They are engineered for versatility, serving effectively in power distribution, telecommunications, and lighting infrastructure projects.

## Key Advantages

### Core Benefits

Lightweight, High Strength, Corrosion Resistant, Low Maintenance, Cost-Effective

## Technical Performance

### Performance Metrics

**50 %**

Weight Reduction

**2 x**

Load Capacity Increase (Min)

**60 %**

Cost vs Steel Poles

### Material Properties

- Ultra-High Performance Concrete (UHPC) base
- Precision-positioned reinforcement
- Anti-cracking structural configuration
- Resistant to salt, alkaline, and acid rain

## Applications

### Suitable Applications

Power Distribution • Transmission Lines • Substations • Street Lighting • Traffic Signage • Communications • Wind Power

## Installation & Design

### Connection Methods

Connection Type	Description
Direct Burial	Standard ground installation
Metal Flange	Bolted connection
Concrete Flange	Integrated cast-in-place flange for bolt connections