



# High Performance RS Distribution Poles



## Reliable Pole Technology

RS Technologies introduces a new line of competitively priced composite poles for distribution applications. RS Distribution poles, or RSD poles, feature all the high performance benefits of standard RS poles in a thinner walled, even lighter weight version that is specifically engineered for use in the distribution grid.

## RSD Pole Characteristics

RSD poles are produced using an ISO 9001:2008 quality system and have engineered reliability with the following characteristics:

- Ⓞ Lengths from 20 ft. [6 m] to 55 ft. [16.8 m]
- Ⓞ Class 2 to class 6 wood pole equivalent
- Ⓞ Hand carry
- Ⓞ Field cut and drill
- Ⓞ No scheduled maintenance
- Ⓞ 80 year service life
- Ⓞ Grey or brown color options
- Ⓞ 41 year Warranty

RSD poles are designed to be used everywhere that wood, steel and concrete distribution poles are currently used in the grid. RSD poles save time and money over conventional pole materials in the following applications:

- Ⓞ Backyard installations
- Ⓞ Remote locations
- Ⓞ Swamp and wetlands
- Ⓞ Environmentally sensitive locations
- Ⓞ Emergency response
- Ⓞ Roadside car impact
- Ⓞ Woodpecker remediation
- Ⓞ Grid hardening

RSD poles can be shipped in nested module format for maximum transportation efficiency or pre-assembled to minimize onsite installation time. Pre-drilling to framing standards is also available.

## Engineered Solutions

RSD poles are engineered in a non-linear (P-Delta) approach using finite element analysis (FEA) software to provide complete confidence in pole performance.

“We selected the RS product because it is lighter and therefore can be installed much faster, reducing customer outage time. And the fact that these innovative poles are built in segments means they are easier for our crews to move to work sites.”

**James A. Kelly**  
VP of Engineering  
Southern California Edison



# LIGHTWEIGHT MODULES



## RS PERFORMANCE ADVANTAGES

### High Energy Absorption

RSD Poles absorb considerably more elastic strain energy than traditional materials in storm and high-load scenarios for ultimate reliability.

### High Specific Strength

Ultra-strong polyurethane resin and advanced filament winding fiber placement technology results in the highest strength-to-weight ratio of any pole on the market.

### Low Environmental Impact

RSD Poles save trees and the manufacturing process releases no VOCs or HAPs. Unlike wood poles, RSD poles do not leach any chemicals into the surrounding soils.

### Enhanced Safety

Lightweight and non-conductive, RSD Poles offer greater safety for line crews, wildlife and the community.

### Integrated UV & Weathering Protection

RSD poles are resistant to rot, corrosion or damage from termites or woodpeckers. The UV stable aliphatic outer layers integrate protection against UV right into the pole wall and require no scheduled maintenance to achieve an 80 year service life.

### Fire Resistance

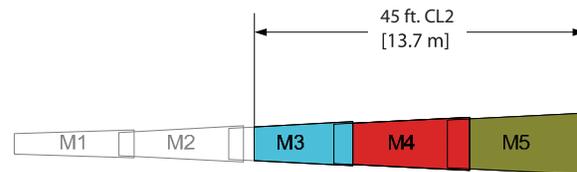
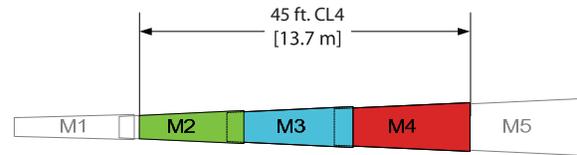
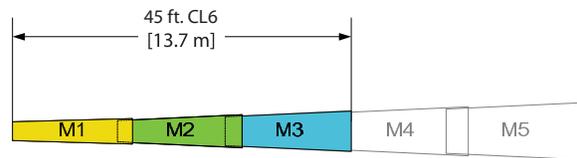
RSD poles do not support combustion.

### Superior Temperature Performance

RSD pole's composite material will perform well in both hot and cold environments. Like steel, the composite material has a low coefficient of thermal expansion to reduce hardware re-tensioning requirements.

## Modular Design

Custom length and strength poles are created from standard sized RSD modules for ultimate design flexibility. Below are three different RSD module combinations to build a 45 ft. [13.7 m] pole:



The above examples show three different 45 ft. [13.7 m] poles however RSD modules can be utilized to build poles from 20 ft. [6 m] to 55 ft. [16.8 m] in length.

## Fast Installation

RS poles can ship both fully pre-assembled to eliminate on-site assembly labor, or in nested format to achieve maximum shipping efficiency and easy on-site logistics. RSD poles can be pre-drilled for specific framing patterns to further reduce installation time.

“We realize the distinct advantages that composites provide, especially when it comes to utility poles. Composite poles are lighter in weight, easier for field modifications, and safer for my crews due to their extremely low conductivity.”

**Tony Michalsky**  
City of College Station



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