

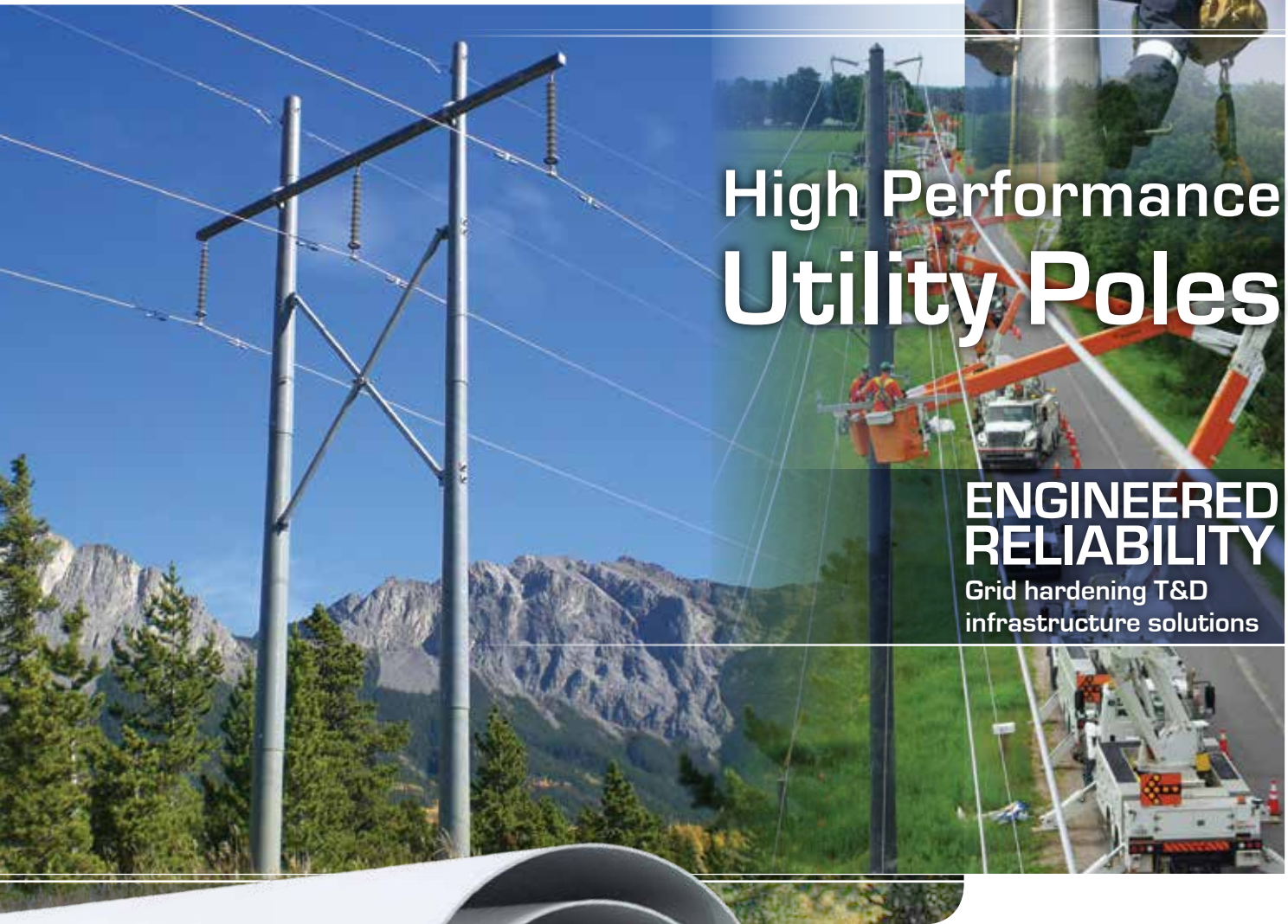
RS *Composite Utility Poles*



High Performance Utility Poles

**ENGINEERED
RELIABILITY**

Grid hardening T&D
infrastructure solutions



 **WESCO**[®]

RS



Case Study:
Innovative Materials & Design

The RS pole was chosen for Southern California Edison's "Circuit of the Future" - a project that utilized the most advanced, reliable utility products on the market.



High performance RS modular composite utility poles provide a cost effective, reliable solution where environmental conditions, grid hardening, weight, physical access, lead time, aesthetics, transportation, high strength, enhanced safety or long service life are required for new lines or pole replacements.

Significant portions of the utility grid were installed decades ago. Aging structures endure constant attack from rot, corrosion, woodpeckers and termites and are regularly challenged by ice storms, hurricanes, tornadoes, vandals and even vehicular impact.

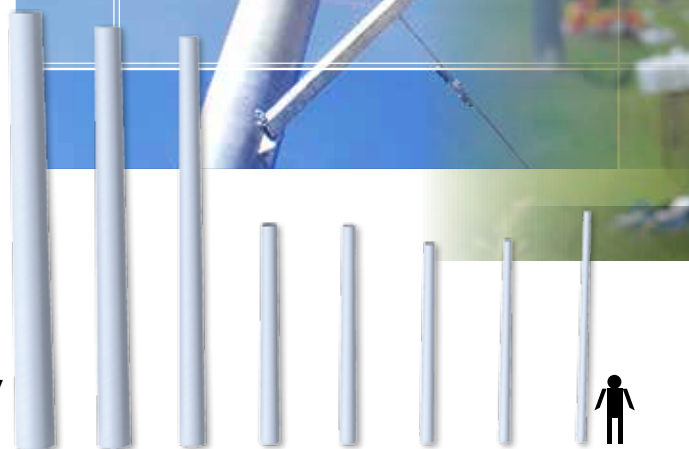
New line construction and pole replacement can be problematic with long lead times, challenging terrain, right of way issues, environmental assessments, disposal costs, power interruptions and costly equipment requirements.

The RS Pole Solution

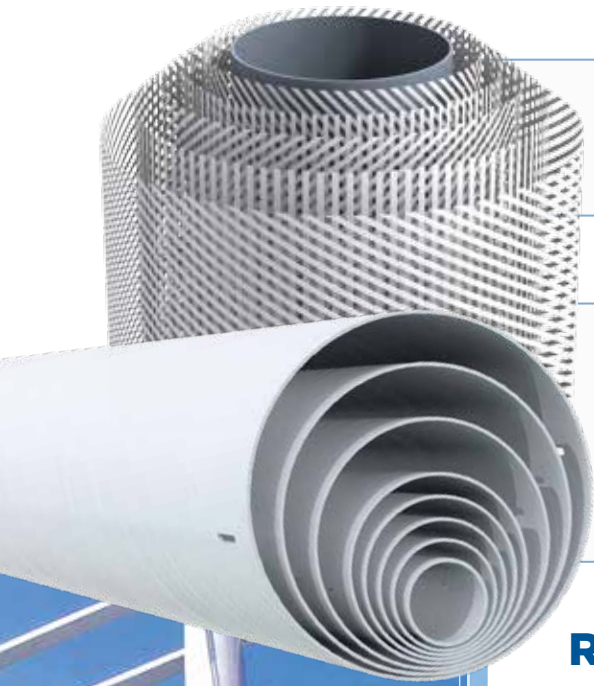
RS Composite Utility Poles are constructed from combinations of standard-sized tubular modules to create poles with heights ranging from 30 ft. [9.1 m] to 155 ft. [47.2 m] that use standard industry hardware. RS poles deliver the following:

- ⑥ **Lowest Logistics Costs**
with industry best lead times, more efficient transportation, fast installations and cost effective inventory management.
- ⑥ **Lowest Liability**
with a limited 41 year limited warranty, high dielectric strength providing improved safety for workers and the public, better storm and high wind reliability, faster response times in emergencies and minimal environmental impact.
- ⑥ **Longest Life**
with an 80 year service life, integrated UV protection requiring no scheduled maintenance resulting in the lowest lifecycle cost and immunity to rot, corrosion, woodpeckers and termites.

“The highest performing Utility Pole on the Market”



RS poles have been used by over 300 utilities worldwide, including installations in North America, Scandinavia, Europe, Australia, South America, Asia and the Caribbean.



COMPOSITE MATERIALS

RS poles are made from an advanced composite material with integrated UV protection that combines an ultra-strong polyurethane resin and E-glass fiber rovings. RS poles can also be pre-drilled and pre-assembled.

MODULAR DESIGN

The RS pole's unique tapered design enables the modules to be nested in compact bundles allowing for maximized efficiencies in storage and transportation. The eight module system can be configured to build virtually any pole class up to 155 ft. [47.2 m], which lowers the lead time for deliveries, reduces inventory requirements and simplifies transportation, handling and installation.



RS ADVANTAGES

Hardware Compatibility

Smooth surfaced hardware are without cleats or sharp edges of contact should used with RS poles and is commonly available for round cross-sectioned steel and concrete poles. Solutions like steel bearing plates can be supplied by RS to enable the use of existing hardware.

Superior Temperature Performance

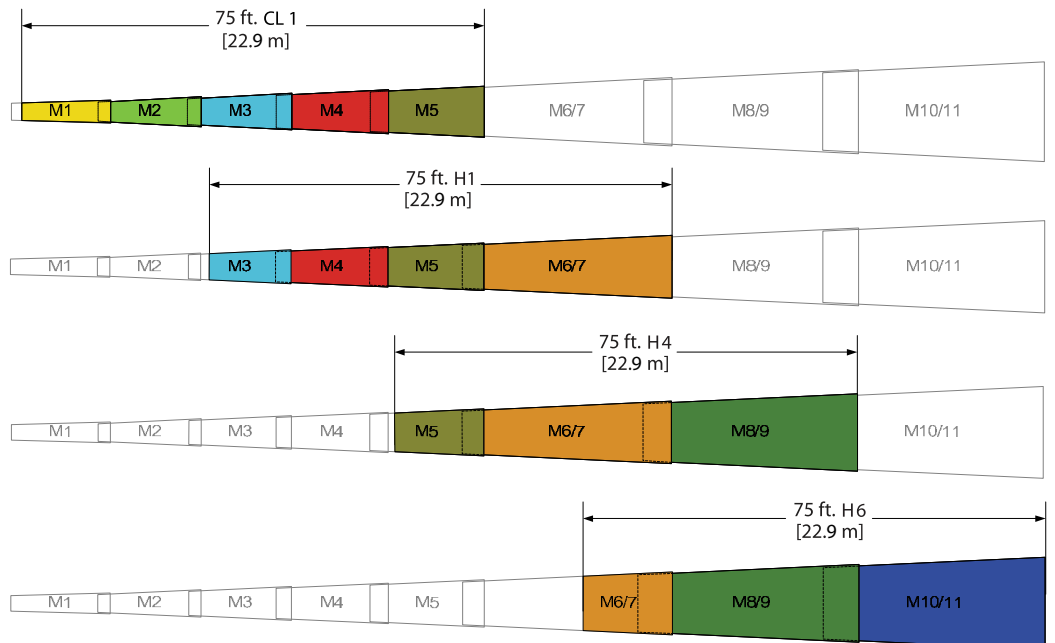
RS's composite material performs well in both hot and cold environments. The established temperature range is -76°F to +167°F [-60°C to +75°C].

Fast Assembly

RS pole slip joints assemble in approximately 10 minutes each, or with the assistance of assembly racks, entire poles can be completed in 15 minutes with a crew of four including a mechanically fastened connection. Poles can be pre-drilled for specific framing patterns and/or pre-assembled prior to shipping to reduce installation time.

Modularity

Custom length and strength poles are created from standard sized modules for ultimate flexibility. Below are different module combinations to build a 75 ft. [22.9 m] pole:



Case Study: Transportation Advantage
 “Compared to other transmission poles we evaluated, the RS pole was the most cost effective. Transportation, assembly and installation was easier and less expensive than that of traditional poles.”

Shawn Woon,
 Manager, Midlite
 Powerline
 Construction

Efficient Transportation

The RS pole’s nesting modules mean even the longest RS poles only require standard length trailers and they eliminate the need for slow and expensive long load permits. See the Truckload Quantity Comparison below to review the significant shipping efficiencies that can be realized with RS poles. Depending on pole size, RS modules can also be shipped and stored in 20 ft. [6.1 m] or 40 ft. [12.2 m] intermodal containers for international deliveries and quick deployment after natural disaster damage to the grid. Lightweight RS poles have been air freighted in bulk quantities in emergencies.



Truckload Quantity Comparison
 60 ft. [18.3 m] Class 1 Poles

