

COMPOSITE UTILITY POLES

Innovative - Durable - Environmentally friendly



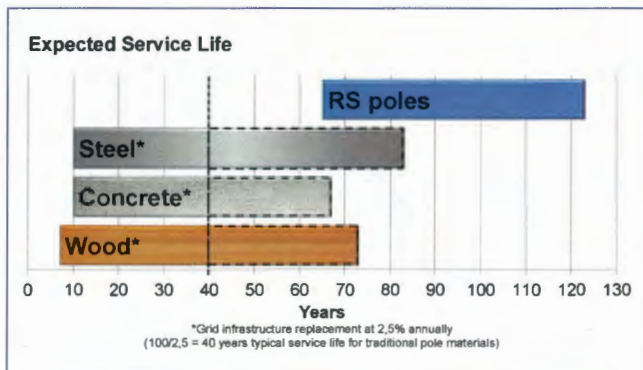
The future in line construction

INNOVATIONS THAT INSPIRE

Modular Composite Utility Poles

Mosdorfer, one of the world's leading companies with more than 65 years of experience in the development and manufacturing of fittings and accessories for overhead transmission lines up to 1200 kV, is now providing the next generation of composite pole technology to replace existing power line structures.

RS Poles' non-conductive modular designs provide a cost effective, reliable solution where environmental conditions, weight, physical access, lead time, aesthetics, transportation, high strength, enhanced safety and long service life are required for new lines or pole/tower replacements. RS poles are designed to withstand harsh environmental conditions all over the world. The composite material performs well in both hot and cold environments. The established temperature range is -60°C to $+75^{\circ}\text{C}$.

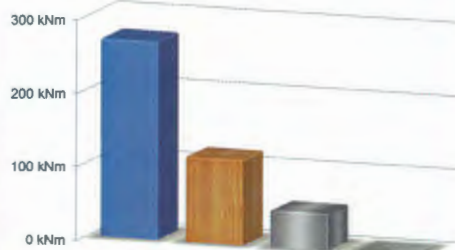


Longest life time

High-performance RS poles are engineered for 80 years of service life with a 41 year manufacturer's warranty. The

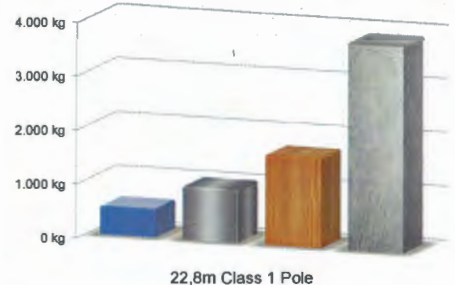
Specific strength Comparison

- RS poles: 271 kNm/kg
- Wood: 117 kNm/kg
- Steel: 51 kNm/kg
- Concrete: 3 kNm/kg



Weight Comparison

- RS poles: 536kg
- Steel: 993kg
- Wood: 1.676kg
- Concrete: 3.856kg



long service life is achieved from a single step manufacturing process which creates a monolithic laminate with an embedded layer of aliphatic UV protection that cannot be scratched or flaked off.

Maintenance free

As the pole wall is chemically inert, RS poles will not rot or corrode and are highly resistant to salt and chemicals. Additionally they are totally impervious to termites and other pests. RS poles are resistant to bushfire damage, with extensive test data to confirm the composite material will withstand high-intensity fire events that may occur in service. RS poles require no scheduled maintenance, like preservative treatments, residual strength assessments or repainting.

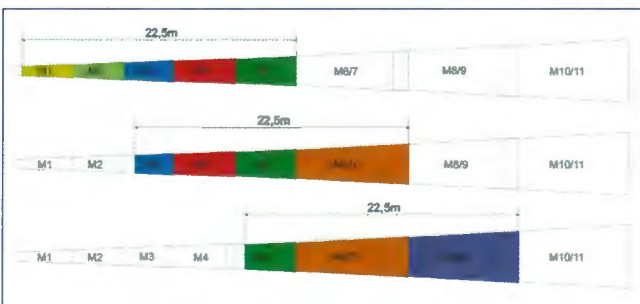
The future in sustainable line construction

Environmentally responsible

RS poles are free of toxic preservatives and as a result they do not leach metals or chemicals into the ground or the water table. At the completion of their service life, RS poles can be deposited as nonhazardous landfill, or crushed and re-used e.g. as filler addition in asphalt, and building materials. Altogether, RS poles are the most benign structure that can be used in transmission line design over the entire asset life-cycle.

Modular design

Custom length and strength poles are created from standard sized modules for ultimate design flexibility. See below examples for different module combinations to build a 22.5m pole. By using combinations of the eight modules, full pole lengths in various designs can be realized, ranging from 6m up to 47m in length.



Fast assembly

RS poles' slip joints assemble in approximately 10 minutes each. Re-usable assembly racks make the assembly process

RS poles are fire resistant



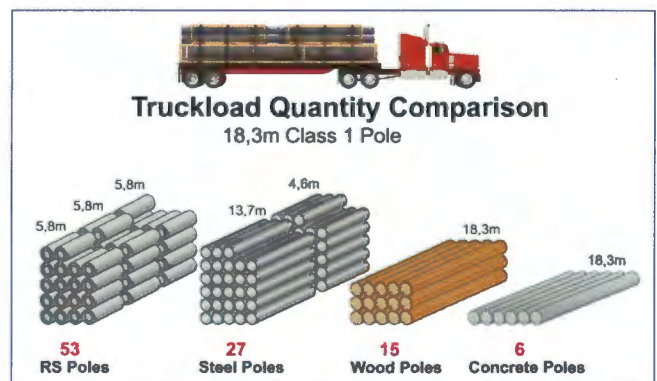
Double-circuit Monopole design

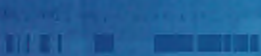


and attachment of hardware simple and fast, with these works being performed at ground level. Holes to attach accessories can be drilled on site, or poles can be ordered fully pre-drilled prior to shipping to reduce site work.

Lowest logistic and storage costs

With the pole industry's best lead times, more efficient transportation, fast installations and cost effective inventory management RS poles save time and money. RS poles nesting modules mean even the longest RS poles only require standard length trailers. See the truckload quantity comparison chart below to review the significant shipping efficiency. The same applies to warehousing, where minimal space is required for pole storage and physical handling.





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