

LAMINATED WOOD POLES

Better Structures Through Design



LAMINATED WOOD POLES

A Smart Alternative to Steel and Concrete.

TYPICAL APPLICATION

- Unguyed Deadend Structures
- Unguyed Angle Structures
- Switch Structures
- Tangent Structures
- Inline Deadend Structures
- Substation Structures
- Strain Structures
- Joint-Use Structures
- Antenna Poles w/ Raceways
- Tall Heavy Class Structures
- Highway and River Crossings
- Round Pole Equivalents
- Light Poles



ADVANTAGES OF LAMINATED WOOD POLES

- Economical custom engineered structures
- Rectangular cross section is stable and efficient in resisting torsion
- Short lead times
- Aesthetically pleasing structures
- Made from renewable resources
- Foundation design is included
- Direct embed design facilitates fast and easy installation
- Pre-drilled per customer approved framing drawings
- Easy to modify on site with standard tools
- Climbable with standard gaffs
- Flat mounting surface makes it easy for mounting hardware and crossarms
- Framing hardware and foundation reinforcement hardware is included

McFarland Cascade can supply pole line attachment hardware as a kit to save you time and money.

McFarland Cascade engineers collaborate with your switch manufacturers to design the switch structure for appropriate strength and stiffness characteristics to resist governing loads and ensure proper mounting hardware is provided.

Our quotation includes foundation design*, foundation reinforcement hardware, framing hardware and flatbed delivery. McFarland Cascade has the flexibility to adjust to specific project needs such as staking requirements, delivery to multiple storage yards or delayed delivery based on your construction schedules.

Laminated wood poles are designed per NESC or CSA specifications and manufacturing is in compliance with applicable national standards including AITC-117 and/or APA Y117 and APA Y117-SUP. Laminated wood poles are pressure-preservative treated to meet or exceed AWWA UC4 and AITC 109 guidelines.

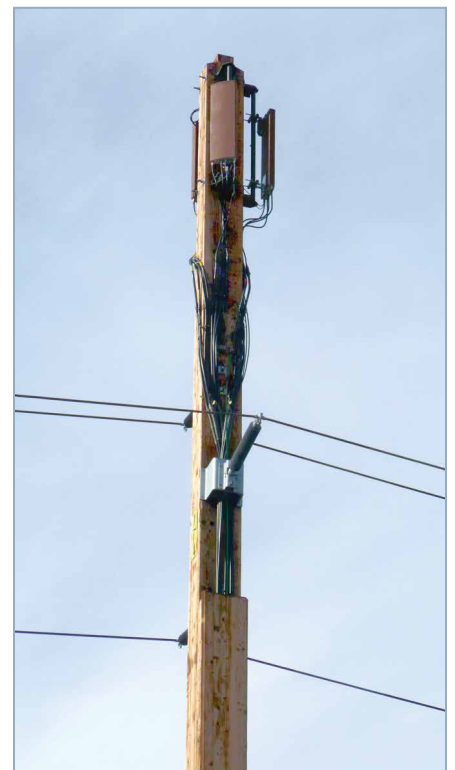
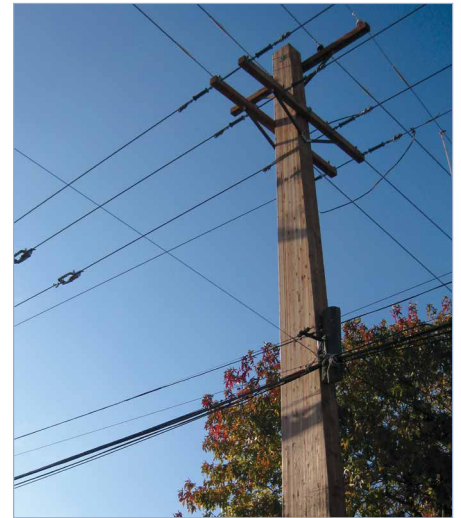
Our design philosophy is transparent, conservative and per the National Design Specification (NDS) code as we include recognized critical adjustment factors in our design such as:

- Cv (Volume Effect)
- Ci (Stress Interaction Factor)
- Cfu (Flat-Use Factor)

* for class 6 unless advised otherwise

■ CONTACT YOUR MCFARLAND CASCADE REGIONAL SALES MANAGER

or request a quote online by visiting www.ldm.com/LaminatedPoles.html - you can fill out our online form or print it out and submit by email at sjpoleinquiry@Stella-Jones.com or by faxing the form to 253-627-4188.



Committed to Quality – Through Research and Development

McFarland Cascade is committed to continuous research and development to improve quality, reduce costs and lead times. We have conducted multiple full scale destructive tests in accordance with ASTM D 1036 of H5-70' structures utilizing our proprietary layup in both Coastal Douglas Fir and Southern Yellow Pine for our tangent poles. These full scale break tests revealed that structures utilizing our proprietary layup were 2 to 4 classes stronger than the required class strength. This has allowed us to engineer more efficient structures. All our structures are designed using MOR (fiber strength) values acquired from full scale break tests.

McFarland Cascade has also conducted testing of our proprietary notch-free splice design. Our splice features custom designed steel plates that match the taper of the pole, eliminating the need for a notch and the associated risk of a stress rise in the structure. Spliced poles are cost effective as handling, treating and transporting shorter sections can improve efficiency during manufacturing and transportation.



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