McFarland Cascade®

LAMINATED POLES

engineered to solve problems

Laminated Poles–a smart alternative to steel and concrete.

1 Determine if laminated wood poles are a good fit with your structural needs.

Round Wood Poles should be considered prior to specifying Laminated Wood Poles:

- For sizes up to class H6 and 125', round wood poles are still the be best and most cost-effective choice for tangent installations where guying is possible.
- For sizes H4 and over, round wood poles may be available for tangent applications where guying is possible. Quantities may be limited.
- When round wood poles are not available in the sizes you require or custom engineering specifications need to be met, laminated poles are the perfect solution.
- Where guyed installation would be typical yet other factors prohibit their use, Laminated Wood Poles are often a cost-effective solution.

When to consider Laminated Wood Poles:

- Custom engineered structures.
- Tall structures up to 140 feet or longer.
- Heavy class poles (H1 to H16 and larger).
- Any structure where you may be considering steel or concrete.

The benefits of Laminated Wood Poles:

- Laminated Wood Poles save time. Lead times can be very short compared to steel or concrete.
- Laminated Wood Poles can frequently be set in one day or less minimizing job site preparation issues related to foundations.
- Laminated Wood Poles are manufactured from a sustainable natural resource.
- Laminated Wood Poles have an excellent long term performance history.
- Many communities prefer the aesthetically pleasing look of Laminated Wood Poles.
- Laminated Poles can be field-drilled, so last minute changes can be made easily and quickly with standard tools.
- Available in configurations to accommodate un-guyed, unbalanced directional loads.
- Available as one piece structures or in sections.
- Can be engineered and manufactured to meet specific loading requirements.
- Laminated Wood Poles are climbable using standard climbing equipment.

2 Determine if you have a Structure where Laminated Wood Poles are the best choice.

Dead End Structures. Extremely heavy load in one direction

Tall Structures up to 140' or more. Laminated poles can be built in two pieces with a splice. They are ideal for highway and river crossings.

Angle Structures. Structures with heavy lateral loading.

Un-guyed Structures. Unbalanced loading in one or more directions with limited right of way for guying.

Cell Towers. Large, tall structures with limited or no guying.

Aesthetic Structures. Laminated Wood Poles are aesthetically preferred by many communities for their more natural look that blends in with the surrounding landscape.

Sub-Station Structures. Laminated Wood Poles and Timbers offer higher insulation value than steel or concrete. They also eliminate issues with corrosion while accommodating heavy loads. Custom structures are easily fabricated and field modified.

3 Determine if you need a standard or custom engineered Pole.

McFarland Cascade Standard Laminated Poles.

McFarland Cascade has available two Laminated Wood Pole catalogs with standard dimension tables for raked and tangent poles in Southern Yellow Pine and Coastal Douglas-fir. There are two options for ordering:

Option 1. If you know which of our standard Laminated Wood Poles will work for your application, you can simply order the pole you want. We will then get back to you with current pricing and lead times.

Option 2. If you do not have the ability to calculate which pole will work, you can fill out the form in the front of the catalogs and submit it along with a drawing. We will then do the calculations to determine which pole will work best for you. We will then get back to you with current pricing and lead times.

McFarland Cascade Custom Engineered Laminated Wood Poles.

When you have a unique need, our engineers are ready to design a pole that will meet your challenge in the most cost effective way possible.

We offer a complete custom laminated wood pole engineering service. To obtain a custom design, price and lead time, fill out the form at the front of the product catalogs and submit it along with a drawing. If you have any questions you can contact us at 1-800-426-8430. Our fax number is 253-627-4188.

We will custom design poles to resist axial and lateral loads to comply with NESC requirements and/or your needs. Poles will be designed using PLS finite element software and upon request we will provide a full summary of calculations. Installation drawings for setting depth and rake angle are also included.

Compliance with National Standards.

All poles are manufactured per AITC-117 and/or APA Y117 and APA Y117-SUP specifications and pressure-preservative treated to meet or exceed AWPA UC4 and AITC 109 guidelines.

Customer design responsibility.

It is the responsibility of the customer to verify that the recommended design meets their requirements. The customer must also verify that local installation conditions are consistent with the engineering parameters required and that all applicable codes and other regulatory requirements are met.

Pricing, lead times and engineering services.

To obtain current prices, lead time estimates or to discuss custom engineering, please contact us at 800-426-8430, email laminatedpoles@ldm.com, or visit us at mclampoles.com and we'll put all of our experience, expertise and resources to work for you.

About McFarland Cascade.

McFarland Cascade is the largest supplier of treated wood poles for utility use in North America and has been in business since 1916. We supply laminated wood poles and round wood poles through a network of manufacturing and distribution facilities located strategically to serve customers throughout the United States and Canada. For additional information on McFarland Cascade please go to www.mclampoles.com

4 How to place your order.

Step 1: Structure Requirements

Customer to determine:

- Load requirements.
- Height requirements.
- Soil strength characteristics.
- Other installation parameters in accordance with McFarland Cascade submission form.

Step 2: Design

Option 1

- Select pre-engineered pole from our catalogs.

Option 2

- Send us your load tree for custom engineering services.

Option 3

- Simply call us with your information.

Step 3: Engineering

Our Design Engineer will:

- Use your load information to design a custom structure utilizing proprietary design software to provide a detailed engineering analysis for your review.
- Provide specific laminated wood pole installation instructions.
- Provide rake angle and instructions if "raking" is designated.
- Provide foundation recommendations.

Step 4: Production

McFarland will manufacture the laminated structure to your:

- Precise dimensions.
- Precise framing hole locations.
- Specified groundline preparation including optional thru-boring.

Step 5: Treatment

- Poles will be treated in accordance with AWPA standards and customer specifications.
- Poles will be assayed for preservative penetration and retention.
- Poles will be tagged with all applicable treatment, structure ID and other required information.

Step 6: Delivery

- Poles are shipped to customer jobsite or storage yard.

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