

Introducing

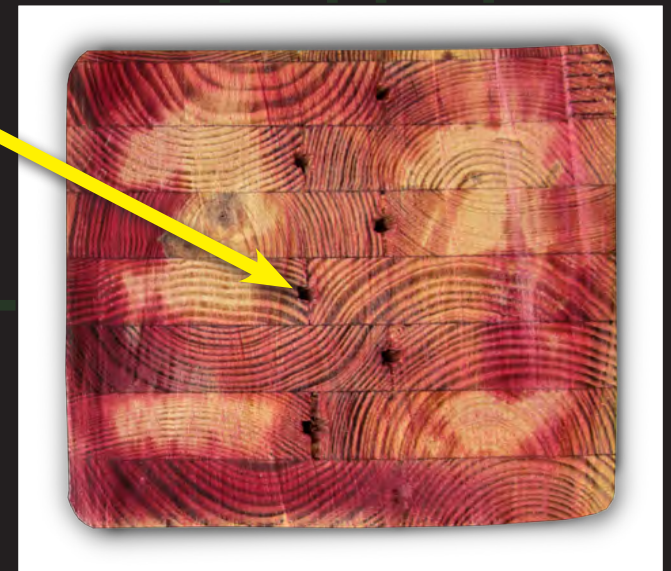
# PentaTrate™

US and Canadian Patent Pending Glu-lam Manufacturing Process

*A good product...*

*The PentaTrate™ edge grooves allow preservative treatment to penetrate the full length, inner zone of multi-layup E-LAM® laminated wood poles*

*...just got BETTER!*



Available Exclusively with



Laminated Wood Poles

*Preserves the Pole from the Inside-Out!*



Laminated Wood Systems, Inc.

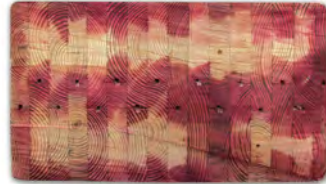
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# PentaTrate™ is the *NEW standard* in laminated wood pole protection!

*US and Canadian Patents Pending*



*Previous Standard  
Cross Section*



**PentaTrate™**  
*Cross Section*

Standard glu-lam design allows for sufficient preservative treatment around the unglued edge joints in the inner zone. The PentaTrate™ design results in *exceptional* preservative penetration... making a great product even better!

## No Visible Difference in the Field



**Previous Standard**



**PentaTrate™**

## Tracking Preservative Penetration of the PentaTrate™ Treatment Design

**SCOPE:** This test was designed to track and verify the effectiveness of the patent-pending edge groove manufacturing design known as PentaTrate™ on multiple lay-up poles. The purpose of the design is to allow interior preservative treatment to migrate the entire length of the pole during the pressure treating process.

**METHOD:** An E-LAM® PEL-H1-120 pole that had been damaged at the treating plant was used for the forensic inspection. The damaged section of the pole was cut off, leaving a 100 ft. section of pole for inspection. Using the large end of the pole as a starting point, the pole was cut at 10' increments. A treatment sensitive substance known as Oil-Red was applied to visually highlight the presence of preservative treatment in the wood sections. Random sections throughout the pole were photographed for documentation.

**CONCLUSION:** Inspection of the cut sections revealed good perimeter penetration, as well as very good inner penetration surrounding the PentaTrate™ grooves the entire length of the pole. The PentaTrate™ grooves successfully facilitate the migration of preservative in the inner section the entire length of the pole.



**10' Section Cut**



**30' Section Cut**



**50' Section Cut**



**70' Section Cut**



**90' Section Cut**



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