

LWS

LAMINATED WOOD SYSTEMS



E-LAM[®] Structures

A photograph of a power line tower in a field with trees under a clear blue sky. The tower is a tall wooden pole with cross-arms and insulators. Several power lines stretch across the sky from the tower. In the foreground, there are green trees and a grassy field. The sky is a clear, bright blue.

E-LAM[®] - THE INDUSTRY STANDARD SINCE 1992



230kV



34.5kV



345kV

Superior Engineering, Unmatched Quality & Patented Features

E-LAM[®] engineered structures are the smartest choice for use in transmission & distribution self-supporting design applications. Made from an abundant, renewable, managed growth timber resource, E-LAM[®] structures are the most sustainable construction option available. Featuring the patented PentaTrate[®] design, E-LAM[®] structures incorporate full-length inner grooves which allow for complete penetration of preservative, resulting in optimum decay resistance & long service life.



Laminated Wood Systems' nationwide manufacturing network allows for structures to be produced and delivered in six to eight weeks after drawing approval. LWS engineering experience is unmatched in the industry. E-LAM[®] structure designs typically include foundation design and all attachment hardware. E-LAM[®] structures are supplied as complete kits that include installation drawings, foundations, and all hardware.

To obtain a structure quote, Send your design information to engineering@lwsinc.com or visit www.lwsinc.com and click "Get a Quote".





E-LAM[®] Self Supporting Unguyed Angle & Deadend Structures

Every E-LAM[®] self supporting structure is custom designed for each unique loading configuration. LWS engineers analyze the loading criteria provided by the customer and specify the pole size, field rake distance, setting depth and foundation design. E-LAM[®] unguyed structures are the perfect solution when faced with right-of-way challenges and expenses. Unlike some other engineered structures, E-LAM[®] structures include foundation design. All structures incorporate a direct-embed design and are most often backfilled with properly placed select aggregate. Send your design information to engineering@lwsinc.com or visit www.lwsinc.com and click "Get a Quote".





69kV



115kV



69kV



115kV

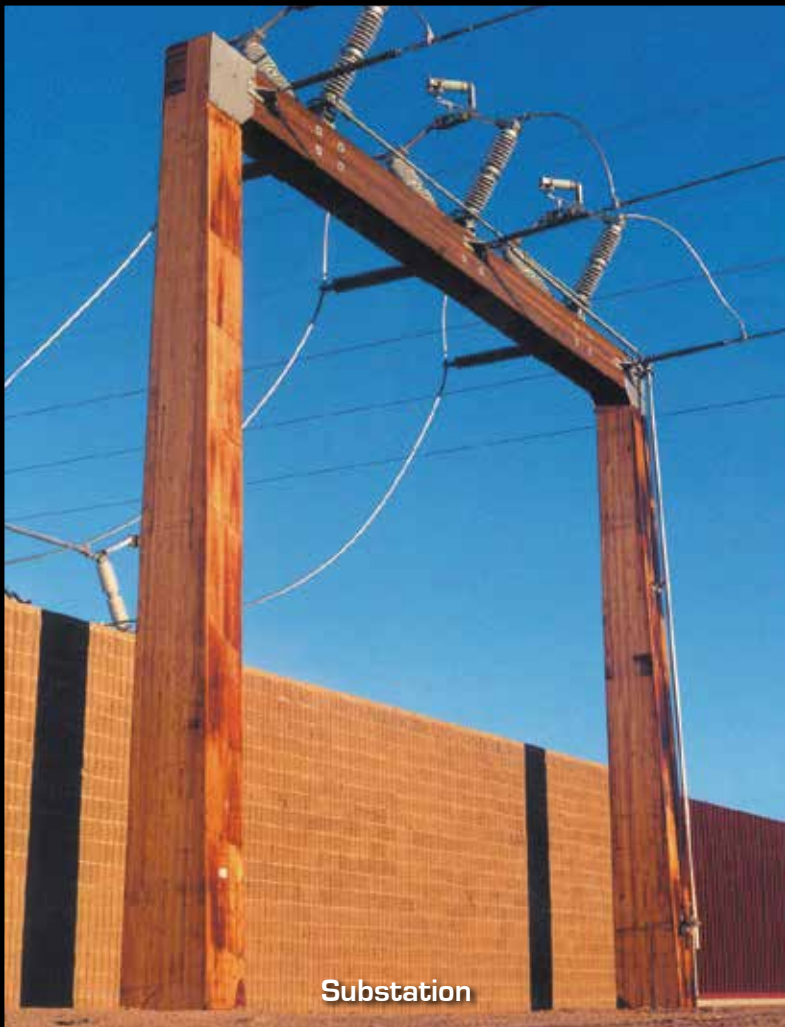
Never-Twist® Engineered Switch Structures

Never-Twist® structures from LWS are made from kiln dried lumber that will not season, deep check or twist like conventional round wood poles. Each structure is engineered for use in unguyed, semi-guyed or fully guyed applications.



All Never-Twist® structures are pre-drilled to fit your specific switch model and configuration allowing for quick assembly in the field. Once the switch is installed, align it and forget it!





Substation

Substation, Telecom, Joint Use, Lighting & Guy Stub Structures

The versatility of E-LAM® technology allows for engineered laminated wood to be used in a variety of utility structure applications including substation and joint use designs. The pleasing aesthetic appearance of E-LAM® makes it a preferred material for telecom and lighting structures that are in close proximity to the public. Visit www.lwsinc.com to view the numerous creative designs that have been installed around the world. Contact LWS with your unique design requirements today!



Telecom Structures



Joint Use



Lighting



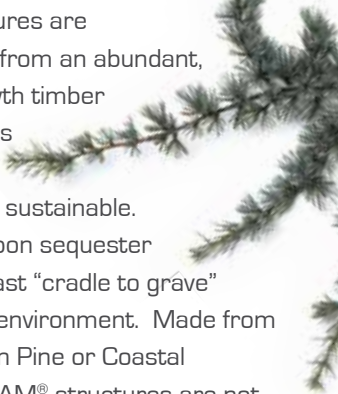
Guy Stub

Complete Structure Kits Delivered On Time, All The Time



E-LAM® structures arrive as complete kits that include all mounting hardware and foundation systems. Every kit is clearly marked with structure information and contains a material list & all installation drawings. Made from solid wood, the crates are built to withstand all weather environments for extended periods of time if needed. LWS' extensive manufacturing and treating network allows for structures to be delivered six to eight weeks after drawing approval.

The Most Renewable & Sustainable Utility Structures Available



E-LAM® structures are manufactured from an abundant, managed growth timber resource that is completely renewable and sustainable. Wood is a carbon sequester and has the least "cradle to grave" impact on the environment. Made from either Southern Pine or Coastal Douglas-fir, E-LAM® structures are not subject to shortages or surcharges like other engineered materials.



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