

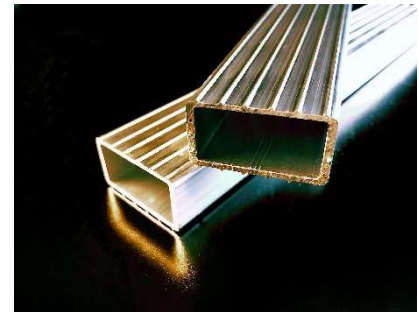
## **FOR IMMEDIATE RELEASE**

# **Unveiling the Future of Lumber Drying: The Superiority of TUFF-STIK™ Aluminum Dry Kiln Sticks**

In the lumber industry, efficiency and quality are paramount. One of the most critical aspects of achieving these goals lies in the kiln drying process, which directly impacts the final product's integrity and market value. Enter TUFF-STIK™ aluminum dry kiln sticks—engineered to revolutionize lumber drying through unparalleled thermal conductivity and design innovation. These multi-patented sticks are not just another tool in the kiln; they represent a giant leap forward in technology and efficiency.

### **Exceptional Material: Aluminum Alloy**

The core advantage of TUFF-STIK kiln sticks starts with their construction material—aluminum alloy. Known for its excellent thermal conductivity, aluminum surpasses traditional materials, such as wood or plastics, by facilitating rapid and uniform heat distribution. This quality is crucial because effective heat transfer within a kiln determines the evenness and speed of drying throughout a lumber package.



*TUFF-STIK XL Series™*

In practical terms, the aluminum used in TUFF-STIK sticks acts much like a rapid transit system for heat. It pulls the heat from the kiln's exterior and quickly disperses it through to the core of the lumber package. This process not only speeds up drying times but also enhances the uniformity of the drying process, reducing the incidence of moisture-related defects such as warping or uneven drying.

### **Innovative Design: Hollow and Streamlined**

Beyond the raw material advantages, the design of TUFF-STIK kiln sticks plays a critical role in their superiority. Each stick features a hollow, streamlined shape that significantly improves airflow within the kiln. Better airflow means that the many kiln fans face less resistance and thus operate with reduced electrical impedance. This reduction in impedance allows the fans to move more air with less energy, echoing the simple principle of blowing air through a straw versus trying it with a solid wood pencil. The straw (or hollow stick, in this case) presents less resistance, facilitating easier and more efficient air movement.

The smaller footprint of these sticks compared to traditional options further enhances this effect. By occupying less footprint, TUFF-STIK allows more air to circulate around each piece of lumber, ensuring that heat is distributed more evenly and that areas beneath the sticks are not left damp or less processed than the rest of the lumber. This feature addresses a common challenge in kiln drying, where wood sticks can create wet spots underneath due to poor airflow and heat transfer.

### **Energy Efficiency and Cost Effectiveness**

The energy-saving implications of TUFF-STIK aluminum kiln sticks are profound. By improving the efficiency of heat transfer and reducing the electrical load on kiln fans, these sticks help mills cut

down on their energy usage. Lower energy consumption not only aligns with the growing industry and regulatory mandates for reduced environmental impact but also translates directly into cost savings. Notwithstanding the operational savings, maintenance and replacement of the kilns' fans extend their useful service life. Over time, these savings can offset the initial investment in aluminum sticks, thereby proving economically beneficial in the long term.

## Demonstrating the Difference

To truly appreciate the effectiveness of TUFF-STIK aluminum kiln sticks, one can perform a simple demonstration comparing the airflow through a solid wooden pencil and a hollow straw. Just as it is easier and requires considerably less effort to blow air through a straw, the TUFF-STIK design allows air to pass through the kiln package with greater ease, thereby enhancing the overall efficiency of the drying process.



TUFF-STIK XSL Series™

## Conclusion

The development of TUFF-STIK aluminum dry kiln sticks represents a significant technological advancement in the lumber drying industry. By harnessing the exceptional properties of aluminum and combining them with a thoughtful, efficiency-driven design, TUFF-STIK provides an unmatched upgrade solution that meets the dual demands of modern lumber production: efficiency and quality. As the industry continues to evolve, tools like TUFF-STIK are setting new standards, demonstrating that innovation can drive not only performance but also sustainability in the forestry sector.

For more information visit the company's website at [www.tuff-stik.com](http://www.tuff-stik.com)

### About TUFF-STIK:

*With years of expertise, TUFF-STIK is a pioneer in the design and manufacture of high-quality, innovative kiln sticks and drying solutions. The company is committed to enhancing the efficiency and sustainability of lumber mill operations worldwide.*

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