



Preparation for KILN DRYING & HEAT TREATMENT

Eagle River Sawmill & Kiln strives to provide high-quality products and services to our customers and clients. This information is to provide a better understanding of the recommended process developed by industry professionals.

- We operate a wood drying kiln year-around and provide our fee-based service to the public.
- Our wood drying kiln has a maximum approximate capacity of 3,000 Board Feet.
- Our prices are based on a 700-board foot minimum of \$2.00 PBF for dimensional, and \$2.25 PBF for live edge.
- We accept smaller loads, subject to increased fee per board foot.
- We also charge a \$175.00 kiln fee.
- Clients bringing material to be placed into the kiln can see reduced service fee for unit being properly stickered and staked when delivered.
- For best results, the wood drying process starts by applying a wood grain sealer (old latex paint will suffice) within 24 hours after the tree has been cut, to reduce “checking” of the ends. During the milling process, properly “Stickered between each layer while Stacking to create the unit as boards are pulled off the sawmill” to ensure adequate airflow around each board within the unit and boards remaining straight as possible. (Note: stickers generally cause “sticker staining” if not properly dried before using. Eagle River Sawmill has stickers available at \$2.25 each)



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- Recommended thickness of stickers $\frac{1}{2}$ " to $\frac{3}{4}$ ". Ensure thickness is uniform. Stickers of different thicknesses will create additional warping.
- Average Vertical Sticker Spacing for Air-Drying Wood
 - (12–16 inches): Used for thinner boards of 1 inch or less.
 - (16-24 inches): Used for boards of 1 inch to 2 $\frac{3}{4}$ inches.
 - (24-40 inches): Used for timbers of 3 inches or more.
 - Sticker placement about 3 inches from each end.
- Stickers should be placed to form a vertical column between layers of lumber.
- Avoid short and broken stickers: They can cause cupping and other warps.



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- Storing: Place upon 4x4's and under a shed roof to protect from rain. Covering with plastic sheeting does not provide adequate airflow and restrict airflow causing wood to maintain moisture, reduce a more even release of moisture, and promote mold.

*Consumer Information on the Kiln Drying Wood

Kiln drying wood is a crucial process for ensuring the stability and durability of wood products. Here are some key points for consumers interested in kiln drying wood:

Moisture Content: Kiln drying reduces moisture content to a stable range, typically between 6% and 12%, which is essential for wood stability and durability.

Benefits: Kiln drying is faster and more uniform than air drying, minimizing defects like warping and cracking. It also kills pests and fungi, ensuring the wood is safe for use.

Process: The process involves placing wood in a heated chamber where temperature, humidity, and airflow are controlled to evaporate moisture.

Cost: While kiln drying is more expensive than air drying, it is often more economical and environmentally friendly due to the recycling of heat.



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Quality: Kiln-dried wood is less prone to shrinkage and warping, making it a safer choice for various applications, including furniture and flooring.

Consumers should consider these factors when choosing wood for their projects and ensure they select kiln-dried wood for the best results.

Credits: techdrying.com; okstate.edu: Manermin Resaw Timbers; Wagner Meters; farmstandapp; techdrying.com; timberlakstrussworks.com;



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