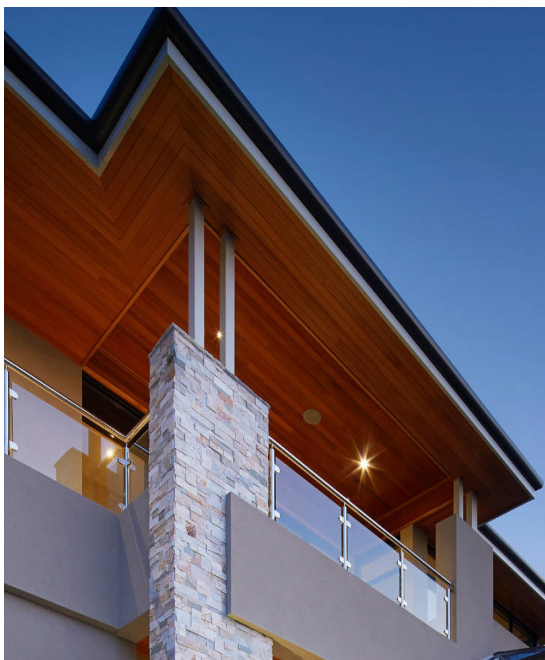


**100%  
NATURAL BEAUTY  
JUST AS NATURE INTENDED**



**Legendary Performance™**



**Kayu® International, Inc.** was founded in 1994 and is one of the world's largest serving Direct Importers of the finest Exotic Hardwood for the U.S. and Canadian markets; providing decades of High Quality Hardwood, Dependable Service at Surprisingly Affordable Prices.

### **Fundamental Guidelines**

We've outlined some fundamental guidelines to assist you with the process of installing your Tongue & Groove ceiling, being mindful that each project is unique and the details vary from build to build. Please consult with a professional ceiling installer in your area.

All wood is subject to expansion and contraction as the moisture in the environment surrounding the wood changes. KAYU® Tongue and Groove™ is skillfully kiln-dried, board to board, resulting in highly consistent results. Unlike air-dried, shrinkage is very limited with kiln-dried boards.



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**Legendary Performance™**



**KAYU® TONGUE & GROOVE™  
HARDWOOD CEILING  
INSTALLATION FUNDAMENTALS**

**The Look of a New Generation, The Feel of Tradition  
Build with KAYU®**

# 100% NATURAL BEAUTY

## JUST AS NATURE INTENDED



Maximum Allowable Decking Spans

Nominal Size	100 PSF on Center
1 x 4	16" on center
1 x 6	16" on center
5/4 x 4	24" on center
5/4 x 6	24" on center

### DISCLAIMER

KAYU® hardwood products are carefully selected and inspected to ensure the finest quality. However, all wood is subject to expansion and contraction as the moisture in the environment surrounding the wood changes. Shrinkage, expansion, checking and other movement are normal occurrences in all hardwood flooring. Natural wood products are subject to variances in color, grain, density and performance.

### STORAGE AND HANDLING

- Before installation and finishing, keep your KAYU® hardwood ceiling boards clean, dry and out of direct sunlight. Acclimate to your project site by dry-storing 2 weeks prior to installation. Do not store boards directly on the ground. Be sure the bottom boards are well ventilated by placing the boards at least 12" off the ground and on top of blocks. Do not cover Kayu® material with plastic or tarp during the acclimation period, this will trap moisture and cause stability issues. Place a sheet of plywood on the top of the pile to shed any water. Do not store the wood in an enclosed area (this includes warehouses, garages). Keep material dry until installation.
- Do not cut Metal anywhere near KAYU® Hardwood during the installation process, avoiding MPCC (Metallic Particle Corrosion Contamination).

### SEALING /FINISHING

- Prior to installation, seal boards with a high-quality penetrating oil sealer on all four sides. Sealing only one side will create uneven moisture flow which increases the likelihood of cupping.
- In order to bring back the original wood color, a periodic cleaning and a new coat of finish will be necessary. Once a year, is the standard guideline for maintenance. The rate at which maintenance is needed depends largely on; the degree of exposure to direct sunlight, climatic conditions, preference of wood color and the frequency at which any preservative treatments are applied.
- Similar to other exterior wood products, with time, KAYU® Hardwoods will gradually fade to a silver-gray patina color. In this state, maintenance will be as minimal and easy as any other hardwood ceiling product on the market.

### KAYU® DRYING

- KAYU® ceiling is skillfully kiln-dried for consistent application, board to board, using a highly sophisticated process of computer and operator controlled heat and humidity to adjust and regulate the drying of the wood. Excessive moisture will cause the boards to expand slightly. Unlike air dried boards, shrinkage is very limited with kiln-dried boards. Please refer to our website resource pdf. about why kiln drying hardwood is far superior to air-dried.
- KAYU® decking does not shrink or expand end to end (unlike composite decking), therefore neatly trim ends and butt together.



### VENTILATION AND AIR FLOW

- Building codes are constantly changing and they can vary by state, county, city, town, and/or district. Contact your local Building Inspection Department to ensure compliance of flooring installation.
- Allowing adequate ventilation is extremely important for proper air flow to reduce the potential for cupping and surface checking. In high moisture areas, it is imperative to leave an expansion space; allowing the wood to expand and contract. In high moisture areas do not install the siding too tight, leave a 1/16" expansion gap between each board.
- **For maximum long term ceiling stability:**

**Sheathing/House Wrap.** Using a breathable building paper, apply wrap to the wall as per specifications. All ceilings may leak to some extent and wrapping stops moisture from getting into the framing or insulation; damaging the internal linings, or seeping lower into the building.

### FASTENING

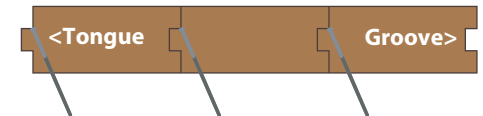
Tongue and groove ceiling can be installed horizontally or vertically.

- **In horizontal application**, start at the bottom and work up with the groove edges facing downwards. Siding up to 6 inches wide can be blind nailed with one siding nail per bearing toe-nailed through the base of each tongue. can be nailed directly to every stud or to furring strips. Wider siding should be face nailed using two nails per piece. Nails must penetrate 1-1/4 inches into solid wood.
- **In vertical application**, start at one corner with grooved edge toward the adjacent wall. Use a construction lever to ensure that the first board is level. The grooved edge of the first board may have to be trimmed to ensure a flush fit. Siding is nailed to horizontal blocking lines installed between studs or to furring strips. As with horizontal installation, pieces up to 6 inches can be blind nailed and wider pieces should be face nailed.

When KAYU®-Tongue & Groove™ is being installed as a **Soffit**, we highly recommend a **polyurethane adhesive** in addition to **Fasteners** due to the weight of the hardwood.

### FASTENING

- **Pilot holes are recommended** to prevent splitting, especially on the end of the board; using stainless steel with **7d or 8d** finish nails. Blind nail through the tongue at **about 45°**. The nail **must penetrate the joists** when face nailing within **¾" of the edge or end of the board**. (see diagram below).



### SAFETY

- Safety should be one of your main concerns when installing flooring. We recommend wearing protective eye-wear, dust masks and gloves during installation. When using a saw, always cut away from your body. Check with your local department of Building and Safety before you start a project and/or have safety concerns.