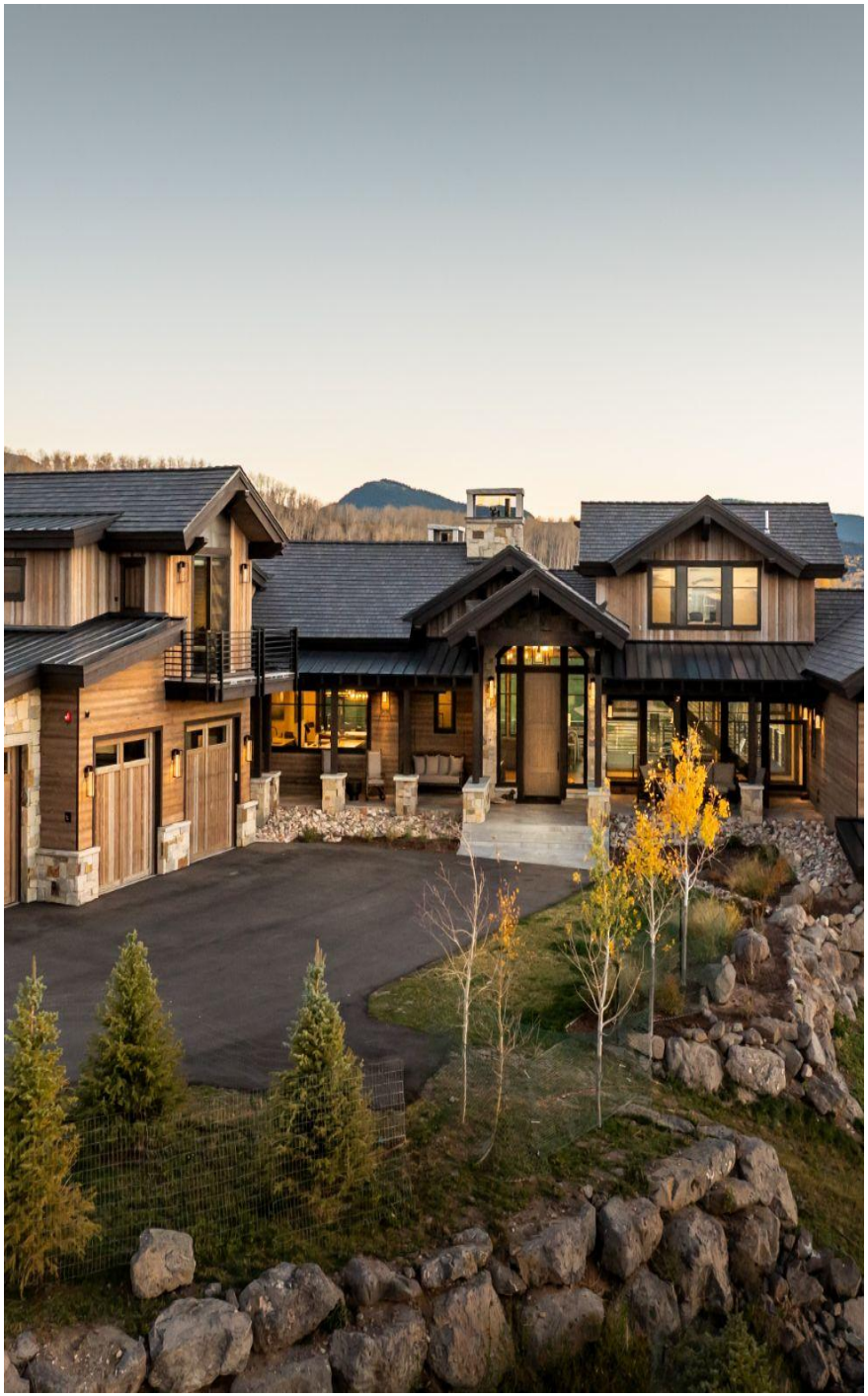
VINTAGE WOODS

PRODUCT DATA SHEET

THERMALLY MODIFIED WOOD

Engineered by Nature.
Perfected by Heat.



VINTAGE WOODS

NATURAL MATERIALS, TIMELESS RESULTS.

WHAT IS THERMALLY MODIFIED WOOD?

Thermally modified wood is real wood that has been enhanced through a controlled heat and steam process. This process changes the way the wood responds to moisture, helping improve dimensional stability and durability without relying on traditional chemical preservatives.

The result is a natural wood product that is more stable than standard kiln-dried wood and well suited for refined exterior and interior architectural applications.

At Vintage Woods, thermally modified wood is custom manufactured, milled, and finished for each project. It can be used across a range of applications, including cladding, soffit, fascia, trim, decking, and select custom wood components.

IMPROVED STABILITY

Reduced moisture absorption helps limit movement.

ENHANCED DURABILITY

Improved resistance to decay when properly installed and maintained.

NATURAL MODIFICATION

Modified with heat and steam rather than traditional chemical preservatives.

FACTORY FINISHED

Custom finishes support project-specific design intent.

ARCHITECTURAL APPEARANCE

Warm, natural tones for elevated wood applications.

ENGINEERED BY NATURE. PERFECTED BY HEAT.

Thermal modification enhances wood through heat, steam, and time. The process alters the wood at the cellular level, reducing its moisture absorption and improving dimensional stability.

While the wood remains a natural material, thermal modification helps it perform better in demanding environments when properly designed, installed, and maintained.

Heat

Wood is heated in a controlled environment to begin the modification process.

Steam

Steam helps protect the wood during modification and supports a controlled, even process.

Modify

The wood's moisture behavior changes, reducing its ability to absorb and release moisture as readily as untreated wood.

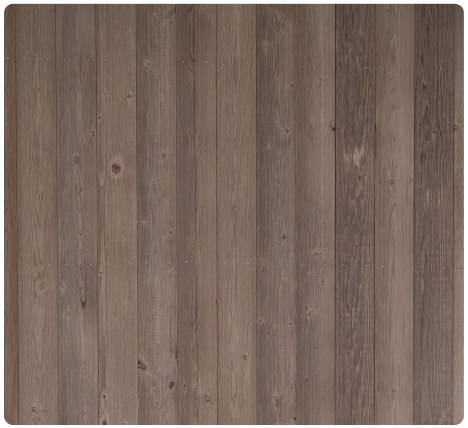
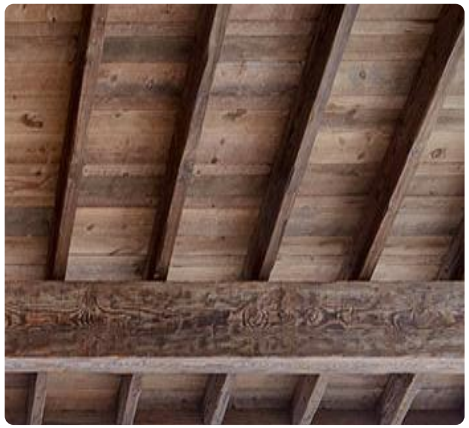
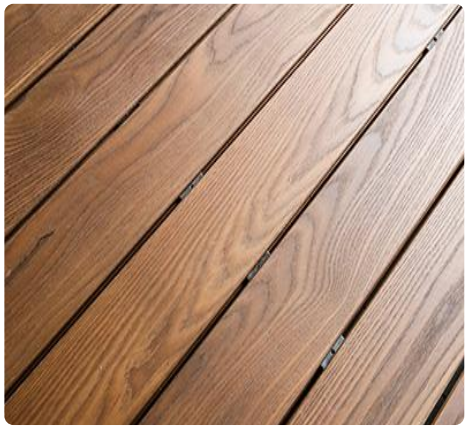
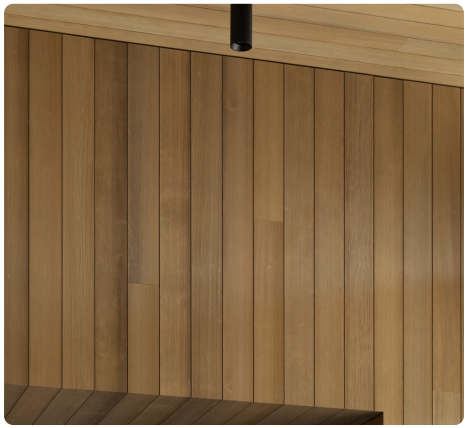
Stabilize

The modified wood is brought back to a usable condition, resulting in a more stable material ready for milling, finishing, and fabrication.

Why it matters: Reduced moisture absorption helps improve dimensional stability and supports long-term performance when paired with proper installation and maintenance.

APPLICATIONS & PRODUCT AVAILABILITY

Vintage Woods thermally modified wood may be used for a wide range of architectural applications. Suitability depends on species, profile, finish, installation method, exposure, and project-specific conditions.

Application	Available	Notes
Cladding	Yes	Available in a range of profiles and finishes
Soffit	Yes	Commonly used for exterior ceilings and overhangs
Fascia	Yes	Requires proper flashing and moisture detailing
Trim	Yes	Confirm dimensions, finish, and exposure conditions
Decking	Yes	Requires proper spacing, ventilation, and maintenance
Interior Walls & Ceilings	Yes	Suitable for select interior architectural applications
Timbers / Timber Wraps	Project-specific	Availability depends on size, species, and project requirements

AVAILABLE SPECIES

Species availability varies by project, application, profile, and current material supply.

Common thermally modified options may include:

- Hemlock
- Spruce
- Southern Yellow Pine
- Paulownia
- Other species by request or availability

Final species selection should be confirmed during estimating and sample approval.

PROFILES, FINISHES & WEATHERING

PROFILES & DIMENSIONS

Thermally modified wood from Vintage Woods can be milled into a variety of standard and custom profiles, including shiplap, tongue & groove, tongue/groove/shiplap, square edge, trim, fascia, and select custom profiles.

All dimensions should be confirmed on the estimate and approved physical sample. Wood products are typically referenced by nominal dimensions, while actual milled dimensions and net coverage vary by profile. For exposed face, reveal, and coverage information, refer to the *Vintage Woods Profile & Coverage Guide*.

FACTORY FINISHES

Vintage Woods offers custom factory-applied finishes designed to support the architectural intent of each project. Final color approval requires a signed physical sample before production. Because wood is a natural material, variation in color, grain, texture, and finish absorption should be expected.

> **Natural Variation:** Color variation, grain variation, texture change, and weathering are expected characteristics of natural exterior wood.

WEATHERING & APPEARANCE

Thermally modified wood is more stable than standard kiln-dried wood, but it is still real wood. Exterior exposure will naturally affect its appearance over time.

Weathering is influenced by sun, moisture, elevation, building orientation, overhangs, ventilation, finish color, site conditions, and ongoing maintenance.

South and West-facing elevations typically experience faster UV exposure and weathering. Protected elevations, shaded walls, and areas under deep overhangs may weather more slowly.

MICRO-CLIMATE EXPOSURE CALLOUTS

South / West Faster UV exposure and weathering

North / East Slower visual weathering

Deep Overhangs Increased protection from sun and wind-driven rain

Lower Walls Greater exposure to splashback and snow accumulation

Poor Airflow Increased risk of moisture retention; ventilation is critical

IMPORTANT NOTES & ORDERING

INSTALLATION MATTERS

Long-term performance depends on proper product selection, detailing, installation, and maintenance. Vintage Woods recommends following best practices for jobsite storage, acclimation, rainscreen ventilation, water-resistive barriers, flashing, corrosion-resistant fasteners, end-cut sealing, proper clearances, and ongoing inspection and maintenance.

Important: Do not install material that appears damaged, incorrect, or questionable. Contact Vintage Woods before installation if there are concerns. Installation may be considered acceptance of product condition, profile, color, and finish.

FIRE-RATED APPLICATIONS

Thermally modified wood and fire-rated wood are separate product categories.

Fire-rated treatment is currently available for cladding and trim only. Vintage Woods does not currently offer fire-rated decking or fire-rated timbers.

For fire-rated projects, confirm product availability, code requirements, treatment documentation, testing standards, and approved applications before ordering.

ORDERING & PRODUCTION NOTES

Vintage Woods materials are custom manufactured for each project. Production begins once Vintage Woods has received the signed estimate, approved physical color sample, required deposit, and confirmed project quantities.

Lead times vary based on material availability, production schedule, finish requirements, fire-rated requirements, and project complexity.

Add-on orders may not match the original production run exactly and may not be eligible for expedited turnaround. Vintage Woods recommends ordering sufficient material, including an appropriate waste factor, to avoid project delays.

RECOMMENDED WASTE FACTOR: 15–20%

The appropriate waste factor may vary based on profile, board lengths, wall layout, window and door openings, mitered conditions, diagonal or specialty layouts, installer preference, desired board selection, and project complexity.

The customer, builder, architect, and installer are responsible for confirming final quantities before ordering.

RELATED TECHNICAL DOWNLOADS

- Thermally Modified Wood Installation & Handling Guide
- Fire-Rated Cladding & Trim Product Overview
- Maintenance & Care Guide
- Warranty / Product Limitations
- Profile & Coverage Guide
- Terms & Conditions

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