



THERMOWOOD®







Sustainable materials for a more beautiful world.

Arbor Wood Co. produces ThermoWood® for a variety of outdoor and indoor applications including cladding, decking, dimensional lumber, and more. Our process begins with a select grade of domestically grown and responsibly harvested timber which undergoes a thermal modification process using nothing but heat and steam. The result is a high quality, performance driven material which sustains the natural beauty and design element of wood all without the use of harsh chemicals.





Driftless Longhouse | Bay City, WI | NATRL Pine

Lasting Beauty. Lasting Impact.

The thermal modification process affects wood's relationship with water by breaking down the hydroxyl groups in the wood and eliminating the bound water, making Arbor Wood less prone to mold, rot, and fungal decay. The wood is also less likely to absorb new moisture and has a reduced equilibrium moisture content, reducing the chance of swelling and shrinking by up to 60%. The lower moisture content reduces the overall weight of the wood and helps support the general workability of Arbor Wood. Additionally, certain organic compounds are eliminated during modification, thus removing the food source for rot and insects. The conversion of sugars to a nonfood source also turns the timber a darker, richer through-color, providing an appealing and refined aesthetic.



SOLID & STABLE

Dimensional stability is increased as expansion and contraction is reduced by up to 60%.



DECAY RESISTANT

Less water absorption makes it less susceptible to mold, rot & fungal decay.



ULTIMATE WORKABILITY

Arbor Wood may be glued, painted, or finished similar to standard wood to achieve the desired look for your next project.



ENHANCED APPEARANCE

Thermally modified wood will have richer tones that extend throughout the entire thickness of each board.



CHEMICAL FREE

The thermal modification process uses nothing but heat and steam.



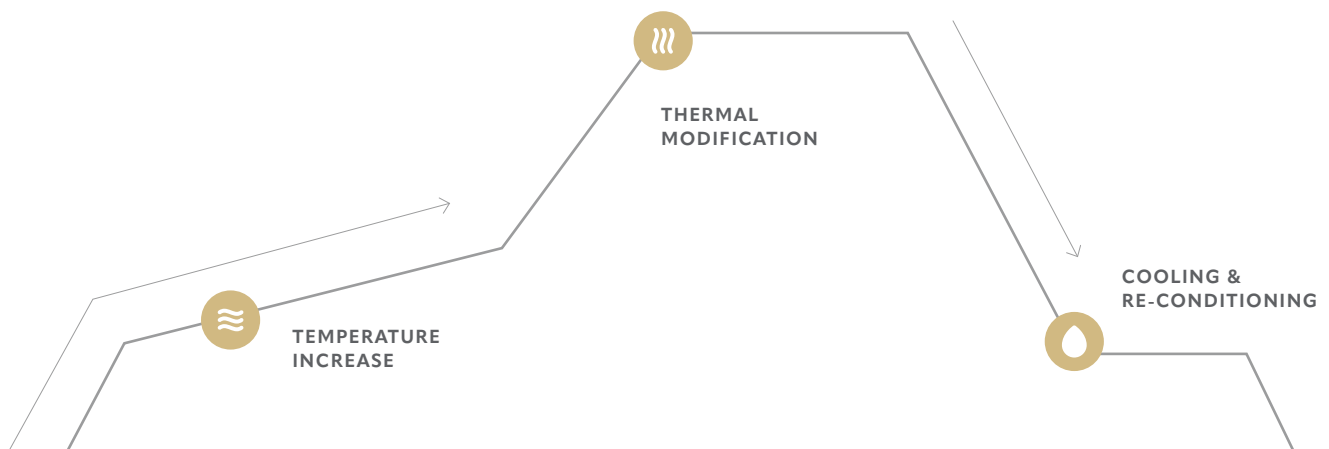
LIGHTER WEIGHT

A significantly lower moisture content reduces the physical weight of each board for easier handling and installation.



Our process begins with a select grade of domestically grown and responsibly harvested wood.

Prior to modification, our rough-sawn timber is hand selected, graded for quality, and kiln dried to a consistent moisture content. The wood then enters our modification process where high heat and steam improve the dimensional stability, durability, and visual tone of the material. Once modified, these timbers are milled into finished profiles where any undesired characteristics such as checking, or end-cracking are also removed. The result is a beautiful board, which is straight, true and ready for use.





Sustainability

Arbor Wood is a premier choice for sustainably harvested ThermoWood®. Our material can be used in place of more expensive tropical wood species and is a domestic, renewable, and environmentally conscious option.



RENEWABLE

Manufactured domestically from trees sourced and harvested in responsibly managed forests in the United States.



LONGER LASTING

Microscopic changes to the wood have macro results - longer lasting, hydrophobic, resistant to rot and decay - just to name a few.



CHEMICAL FREE

High heat and steam replace more traditional chemicals, which are otherwise so prevalent in building materials.



CARBON STORAGE

Using wood can reduce carbon emissions due to its properties as a natural carbon sink.

Associated Sustainability Organizations



EPD Available online



Learn more about our sustainability efforts.



Riverside House | Riverside, TX | NATRL Ash

Products & Applications



CLADDING

Arbor Wood cladding is produced from domestically sourced and responsibly harvested wood. We produce a range of wood species, profile and finish options, including our take on traditional Japanese charred cladding.



DECKING

Arbor Wood decking is available in a range of species and profile options. Our modified hardwoods prove an eco-conscious alternative to exotic hardwoods, and our softwoods a more natural and durable alternative to chemically-preserved lumber.



DIMENSIONAL LUMBER

From windows and doors to interior flooring and even landscape furnishings, Arbor Wood is available in a range of profiles to allow for a higher performance natural wood alternative.



ADDITIONAL USES

- Fencing
- Furniture
- Sauna
- Screening
- Soffits

ThermoWood® can be used in both exterior and interior environments and is well suited for areas where moisture and humidity would compromise a lesser-grade material.



Collections

Arbor Wood is available in a variety of bold and distinct factory finishes to fit your project.

natr1

minimal, raw, refined



Thermo-D Collection

(Interior/Exterior)



ASH, NO FINISH

POPLAR, CLEAR OIL

PINE, CLEAR OIL

Thermo-S Collection

(Interior Only)



ASH, NO FINISH

POPLAR, NO FINISH

PINE, NO FINISH

brnsh

burned, bold, beautiful



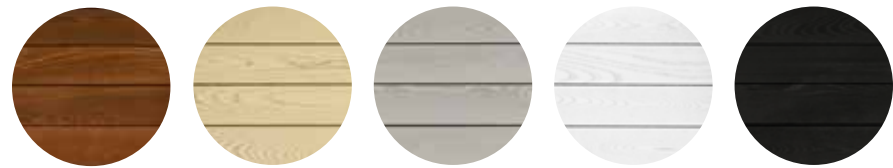
PINE, COAL

PINE, CARBON

PINE, MINERAL

elmnt

expressive, earthy, exquisite



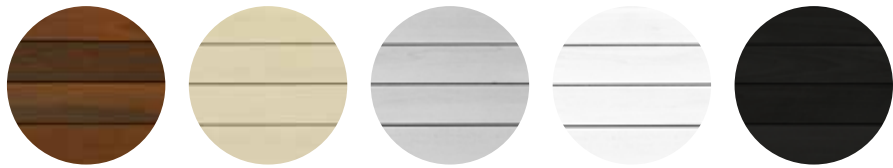
ASH, IRON

ASH, SAND

ASH, STONE

ASH, QUARTZ

ASH, ONYX



POPLAR, IRON

POPLAR, SAND

POPLAR, STONE

POPLAR, QUARTZ

POPLAR, ONYX



PINE, IRON

PINE, SAND

PINE, STONE

PINE, QUARTZ

PINE, ONYX

Real Wood. Made Safer.

Arbor Wood Co. products treated with Saferwood Thermex-FR are approved for exterior use in residential and commercial applications where Class-A ignition resistant materials or FRTW materials are specified for code compliance.

SaferWood
Thermex-FR

Available now
on Ash and Pine
product lines.

**NFPA
703
Compliant**

This industry leading exterior fire-retardant treatment renders wood Class A "ignition resistant" having passed extended surface burning tests and weathering as required by ASTM and model building codes including:

IBC International Building Code

IRC International Residential Code

**IWUIC International Wildland
Urban Interface Code**



Profiles & Dimensions

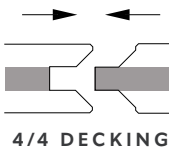
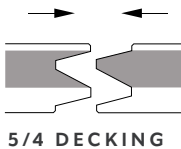
CLADDING PROFILES

	Profile	Species	Dimension (overall)	Dimension (face coverage)
	Tongue & Groove	Ash	.75" x 3.25"	3"
	Tongue & Groove	Ash Pine Poplar	.75" x 5.25"	5"
	Tongue & Groove	Ash Pine Poplar	.75" x 7.25"	7"
	Fluted Tongue & Groove	Ash	1" x 3.25"	3"
	Fluted Tongue & Groove	Pine	1" x 5.25"	5"

DECKING PROFILES

	Profile	Species	Dimension (nominal)	Dimension (actual)
	Hidden Fastener	Ash	5/4" x 4"	1" x 3.5"
	Non-Grooved	Ash	5/4" x 4"	1" x 3.5"
	Hidden Fastener	Ash Pine	5/4" x 6"	1" x 5.5" 1" x 5.25"
	Non-Grooved	Ash Pine	5/4" x 6"	1" x 5.5" 1" x 5.25"
	Hidden Fastener	Ash	4/4" x 6"	.75" x 5.5"
	Non-Grooved	Ash	4/4" x 6"	.75" x 5.5"

END MATCH* DETAIL:











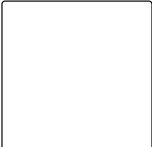


*End match available with ash decking and cladding products only.

Scan for more information and to see our full lineup of accessories and finish needed to complete your project.



DIMENSIONAL LUMBER

	Species	Dimension (nominal)	Dimension (actual)
	Ash Pine Poplar	1" x 2"	.75" x 1.5" .75" x 1.5" .75" x 1.5"
	Ash Pine Poplar	1" x 4"	.75" x 3.5" .75" x 3.25" .75" x 3.5"
	Ash Pine Poplar	1" x 6"	.75" x 5.5" .75" x 5.25" .75" x 5.5"
	Ash Pine Poplar	1" x 8"	.75" x 7.25" .75" x 7.25" .75" x 7.25"
	Ash Pine	2" x 2"	1.5" x 1.5" 1.5" x 1.5"
	Ash Pine	2" x 4"	1.5" x 3.5" 1.5" x 3.25"
	Ash Pine	2" x 6"	1.5" x 5.5" 1.5" x 5.25"
	Ash Pine	2" x 8"	1.5" x 7.25" 1.5" x 7.25"
	Ash Pine	2" x 10"	1.5" x 9.25" 1.5" x 9"
	Ash Pine	2" x 12"	1.5" x 11.25" 1.5" x 11"
	Douglas Fir	4" x 4"	3.375" x 3.375"

Scan to see additional resources
and technical product information.





Coastal Modern | Bandon, OR | NATRL Ash



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